

MultiPlus– All Models

Operation & Parts Manual



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Disclaimer

While every attempt has been made to ensure that information and diagrams in this manual are correct, Giltrap Engineering Limited will not be responsible for any damage or consequential loss arising out of misinterpretation or failure to follow recommended procedures; nor will it be liable for any damage caused by or arising out of modification or misuse of its product.

For parts or service enquiries, please use the applicable contacts on the previous page.

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Introduction

Thank you for purchasing a Giltrap product. *Giltrap Engineering Ltd* has enjoyed a long-standing success with their machinery. We would like you to enjoy the benefits of owning a Giltrap too. By following the guidelines laid out in this book, you will ensure trouble free, low maintenance operating for years.

Giltrap Engineering Ltd is a progressive company which continually strives to satisfy your needs, so we welcome any feedback which you can provide to help us improve our products and services and to ensure that they perform to your expectations. Any constructive comments about this operator's manual are also welcome.

Your machine has been designed to perform its task efficiently and with a minimum of maintenance. This handbook provides safety guidelines, instructions, maintenance requirements and parts listings. We recommend that you read the entire handbook, before operating the machine as this will enable you to take full advantage of your new machine's considerable potential.

Manual Evaluation

We update our operating manuals regularly. Your suggestions for improvement help us to create even more user friendly manuals. Send your suggestions by email to admin@giltrapag.co.nz.

Delivery and Warranty

Before you begin to use your machine, please check it to make sure there is no delivery damage. If damage is evident, contact the dealer who supplied the machine so that they can make the appropriate claims.

If you have any other queries, please contact your dealer or *Giltrap Engineering Ltd* (0800 80 GILTRAP).

All Giltrap products are covered by a 24-month warranty on parts and labour, subject to normal use.

Please fill in the details below for future reference.

| Model: | |
|----------------|--|
| Serial No: | |
| Delivery Date: | |
| Dealer: | |
| | |



Warranty

The Goods specified in the Price List as designed and supplied by Giltrap Engineering Ltd are warranted against faulty workmanship and defective materials for a period of 24 months from the date of purchase. In addition to the primary 24 month warranty for Giltrap products, there is a further 12 month structural warranty for the goods, against faulty workmanship and/or defective materials for structural items only. The structural warranty does not apply to electronics or component parts.

Such warranty is subject to the following conditions:

1. This warranty covers the repair or replacement of parts or machinery sold by the manufacturer and damaged as a result of the faulty workmanship or materials in such parts or machinery. It does not extend to any other loss or damage including consequential loss or damage or loss to other property or persons.

2. Without limiting the generality of paragraph 1 above, this warranty does not cover the following:

(a) Travel expenses.

(b) Damaged caused by accident, misuse or abuse.

(c) Damage to any goods which have been altered or modified by someone other than the manufacturer or its authorised agent.

(d) Damage or loss to the goods due to their unsuitability for any particular use or for using with any particular tractor except where such use or tractor had been specifically approved by the manufacturer.

(e) Damage or loss where the fitting and installation of the goods were not carried out by the manufacturer or its authorised dealer.

3. Procedure for recovery under warranty.

No loss or damage will be covered by this warranty unless the loss or damage is reported immediately to the dealer (who will contact the distributor who will advise whether it is covered by the warranty and undertake the necessary action).

No warranty repair work is to be undertaken prior to an order number being obtained.

This warranty shall be interpreted according to the laws of New Zealand and the parties agree to submit to the jurisdiction of the Courts of New Zealand.

Warranty Claims

If you wish to make a claim under warranty:

- Immediately stop using the machine.
- List details of the machine and damaged item including serial numbers and date of purchase.
- Consult with your Giltrap dealer (supplier) and have him forward your claim and the damaged item to Giltrap Engineering Ltd.

No warranty to be undertaken unless an order number is obtained from the Seller (Giltrap Engineering Ltd) prior to any work being done.



Serial Number Identification

Before ordering any parts, check the serial number and the delivery date of the machine and include this information with all orders.

If the Serial Number Plate is missing, the serial number will be stamped on the front of the drawbar.





General Safety

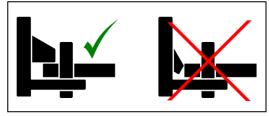
For the safety of others and yourself, please read and follow the precautions in this operator's manual. Pay particular attention to the following safety aspects of operating machinery.

Do not ride on or allow passengers on the machine.

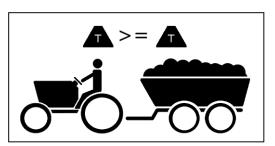


Always use a recognised hitch pin with a safety clip to hook trailed implements on behind the tractor.

Always ensure when using a quick hitch that the locking tab has come out and is in the locked position before moving.



When pulling trailed implements or loads, be sure to use a tractor of greater or equal weight than the combined weight of the load and trailer.





FIRE EXTINGUISHER

Carry a suitable fire extinguisher.

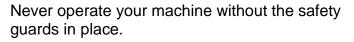
A fire can ignite under certain conditions, so please take the following precautions:

After running your machine for a short time, check for defective bearings. A faulty bearing can become very hot, eventually discolouring, requiring immediate replacement.

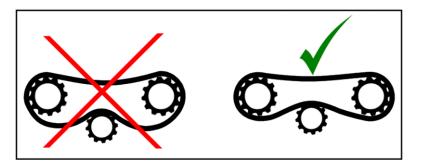
Do not allow combustible material to accumulate inside guards or around rollers and other moving parts.

If your machine becomes blocked, stop immediately and remove the obstruction.

Be careful when operating in hot or dry conditions or on extreme fire risk days.







All chains should be properly adjusted and replaced when necessary.



Release all hydraulic pressure from implements before commencing service work. Never look for suspected oil leaks with your hands or body - use a piece of cardboard instead.

Any fluid that penetrates the skin will have to be removed immediately by a medical expert. Seek specialist advice on this type of injury.



Never attempt to unblock equipment while it is still operating.

Always disengage power take-off, hydraulics and shut down engine before removing materials, checking or servicing.

Failure to follow these precautions is likely to result in serious injury.



Wear proper protective clothing. Loose attire can easily be snagged by rotating machinery resulting in serious injury or death.



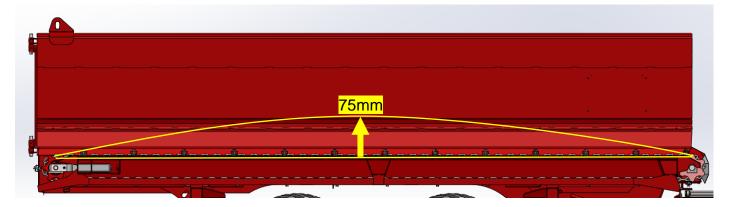


Pre-Service Guidelines & Settings

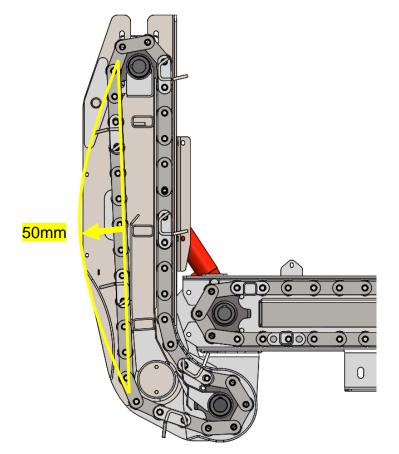
Prior to delivering your machine, your dealer should have completed a pre-delivery check.

It is beneficial to check the following points before using the machine for the first time, after the first few loads, then weekly.

CHECK FLOOR CHAIN TENSION. A simple check is to stand in the bin and exert a strong pull at the centre of the floor. There should be approximately **75mm (3")** of vertical movement in this area.



CHECK ELEVATOR CHAIN TENSION. With elevator fully raised, exert a pull at the mid-point of the outside elevator face. If necessary, adjust for approximately **50mm (2")** of movement from rest outwards.





• CHECK ALL WHEEL NUTS ARE SUFFICIENTLY TIGHT.

| Wheel Nut Recom | nmended Torque Settings |
|-----------------|-------------------------|
| M18 | 200 ft/lbs or 270Nm |
| M20 | 280 ft/lbs or 380Nm |
| M22 | 330 ft/lbs or 450Nm |

CHECK ALL TYRE PRESSURES ARE CORRECT.

| / | | | | | |
|---|-------------------------------|-------|---------|-----|---|
| (| Recommended Tyre Press | sures | | _ | - |
| | 11.5/80-15.3 | 58psi | 4.0 bar | | |
| | 400/60-15.5 | 50psi | 3.5 bar | | |
| | 15.0/70-18 | 45psi | 3.1 bar | | |
| | 400/55-22.5 | 46psi | 3.2 bar | • • | |
| | 500/45-22.5 | 35psi | 2.4 bar | | - |
| | 500/60-22.5 | 35psi | 2.4 bar | | |
| | 560/45R22.5 | 58psi | 4.0 bar | | |
| | 560/60R22.5 | 58psi | 4.0 bar | | |
| | 650/55R26.5 | 58psi | 4.0 bar | | |
| / | < | | | | |

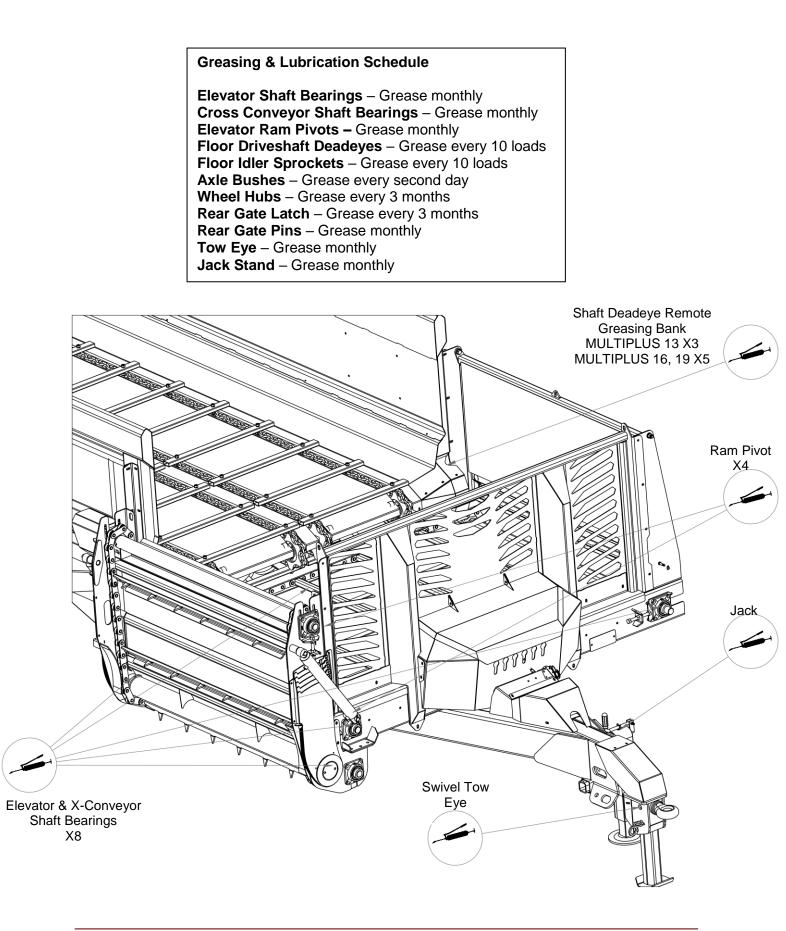
 CHECK ALL AXLE MOUNTING BOLTS AND NUTS ARE SUFFICIENTLY TIGHT.

| Axle Mountii | ng Bolt Recommended Torque Settings |
|--------------|-------------------------------------|
| M16 | 180 ft/lbs or 245Nm |
| M20 | 355 ft/lbs or 480Nm |

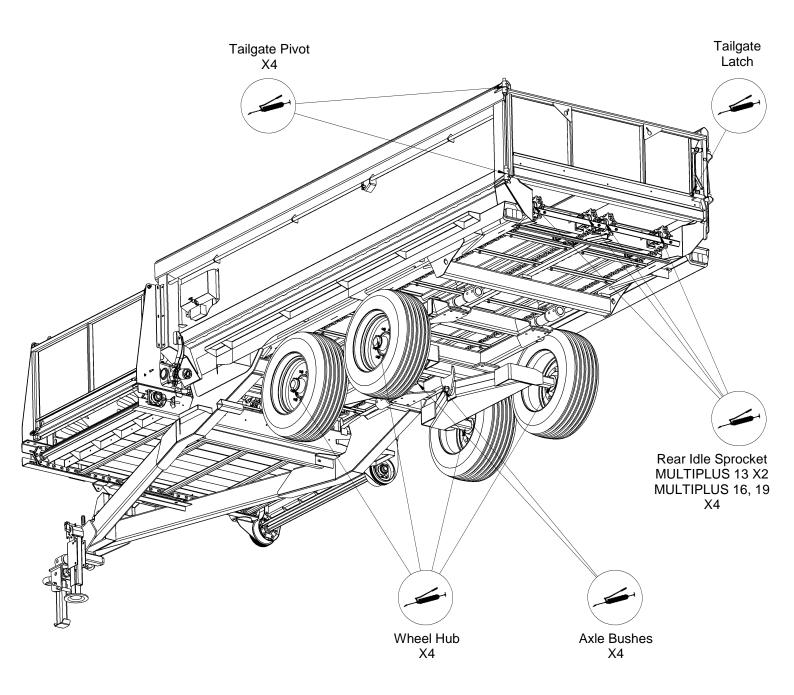
- THERE ARE SEVERAL GREASE POINTS on all Giltrap feeders. Check the yellow label on the side of your machine to see how many grease points there are. You should fully grease everything before running it for the first time. See page 11-13 for greasing and lubrication details.
- CHECK AND RETIGHTEN WHEEL NUTS AFTER:
 - o First use
 - First laden journey
 - The first 50 hours of use and every 50 hours thereafter



Greasing & Lubrication





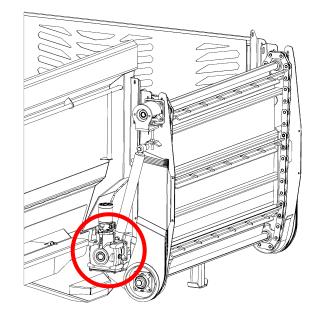




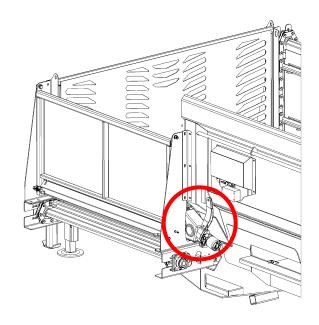
Oil & Grease

Grease Grade Recommended NLGI 2 oil based

Cross Conveyor Gearbox Type: Berma RT120-40 Oil: GL-5 80w-90



Main Floor Drive Gearbox Type: Berma RT200-40 Oil: GL-5 80w-90





Operation

Loading the Feeder

Load the feeder from the rear to the front. When difficult material has to be handled, e.g. long, wet silage, load the material in sections.

Feeding Out

Best feeding out conditions occur when the feeder is freshly loaded. If left loaded overnight, the material can settle into a hard mass that becomes difficult to feed out. The practice of leaving a load in the machine for hours before feeding out will also accelerate the deterioration of the machine because of the acidic nature of the material.

Standard Control

Standard machines will require three hydraulic remotes - one for each of the main functions. The main floor conveyor, the cross conveyor / elevator, and the elevator position.

When pressure is supplied to the standard valve block (HCV1918A-1), the elevator will run continuously and the cross conveyor will move as required to keep the feed against the elevator. The relief on the valve block can be adjusted via the knob on the left of the machine. Winding the adjuster clockwise increases relief pressure which will increase the feed rate.

The main floor is manual and requires the operator to control the movement of feed from the bin onto the cross conveyor. If required, the main floor can be reversed.

The elevator position can be adjusted to feed into troughs or over/under fences.

The standard side gate on the left of the machine can be unlatched and can be used to feed out.

Diverter Valve Control Option

Machines fitted with a diverter valve will require two hydraulic remotes. One will supply the diverter valve and the other will control the standard valve block. The diverter valve can be switched via the in-cab control to supply the elevator ram circuit or the main floor conveyor motor. The other remote will control the cross conveyor and elevator (HCV1918A-1) as per standard spec above.

The diverter value is controlled by a coil which is powered on or off to give the two selectable positions. When the coil is switched off, the value is in position 1 which diverts flow to the main floor motor. When the control is switched on the coil moves the value into position 2, diverting flow to the elevator ram circuit.

It is recommended that the diverter valve switch be connected to an ignition switched power supply so that if the controller is left set to the position where the coil is switched on and the tractor is turned off, the battery is not drained.



Joystick Control Option

Machines fitted with joystick control will require one hydraulic remote. This supplies a valve block which is controlled by the in-cab joystick and switch. The joystick controls the cross conveyor feed (Joystick left and right) and the main floor feed (Joystick up and down). The feed rate can still be adjusted as standard, using the adjustment knob on the left side of the machine. The momentary switch controls the elevator position.

The joystick control valve block is controlled by 6 coils. The coil plugs on the valve block, numbered 1-6, are connected as show below:

| COIL 6 | COIL 5 | COIL 4 | COIL 3 | COIL 2 | COIL 1 |
|-------------|------------------|-----------------------|-----------------------|----------|---------|
| HOSE A1 | HOSE B1 | HOSE A2 | HOSE B2 | HOSE A3 | HOSE B3 |
| Elevator Up | Elevator Down | Main Floor Forward | Main Floor Reverse | CC Right | CC Left |



Scales Display & Power Supply

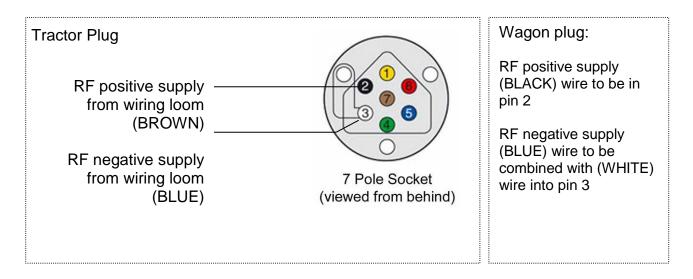
The remote display is designed to be mounted in the tractor cab and be easily accessible to the driver. It contains a radio frequency (RF) communication device to communicate with the scale system.

It will require shielding from the weather elements of sun and rain etc.

The remote display requires 12-24 volts DC to operate. It will typically only draw 0.2A. The power supply must originate from the tractor battery as part of the installation loom (supplied with the machine).

The scales system is powered from the tractor while operating. When disconnected from the tractor, it draws power from its own sealed lead acid battery.

The tractor requires an installation loom (supplied) which provides a switched and fused positive and negative supply from the tractor battery to the rear 7-pin socket. The tractor battery is the best power supply point as it provides the most stable and "quiet" power source. Do not use any other power source.

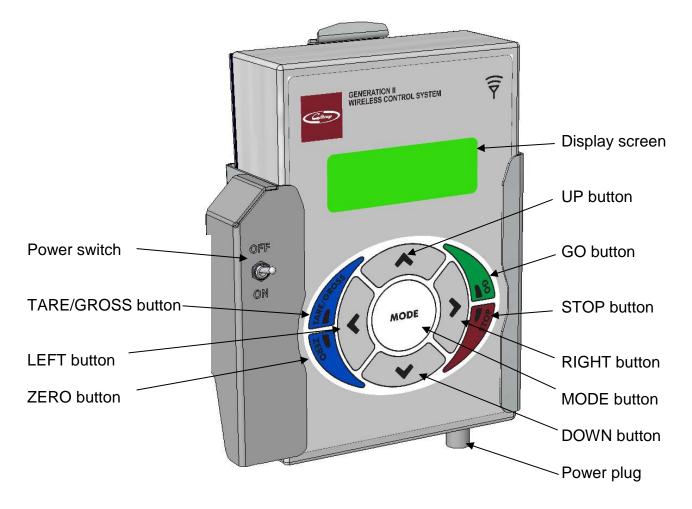




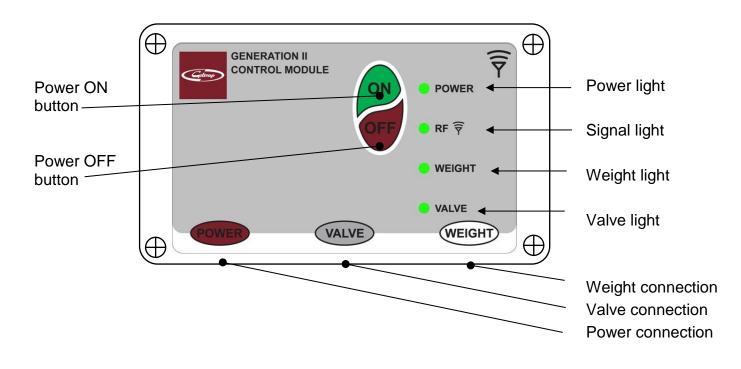
There are three CPC connectors on the Control module. If a connector is not used, place the terminal cap over it.



Remote Display Layout



Controller Layout





Scales Operation

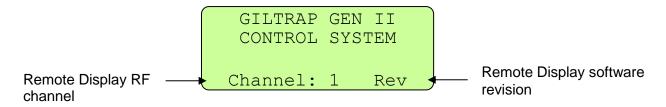
Power for the system is controlled by the switch adjacent to the Remote Display.

- 1. Turn the switch on to provide power to the Remote Display and the wagon.
- 2. If the wagon is disconnected, press and hold the ON button on the Controller for one second. The Controller is now operating on its own battery.
- 3. Begin loading the wagon.
- 4. Once completed loading, connect the wagon to the tractor and connect the 7-pin plug.
- 5. Once ready to feed, select the appropriate mode and press GO button. You are now ready to proceed.

Note: The Controller power light will illuminate when the ON button is pressed or the wagon is plugged into the tractor. To turn off, the wagon must be un-plugged before pressing the OFF button.

Start-up Screen

When the Remote Display is powered up, the start-up screen is displayed for 3 seconds as below. After this the screen will change to the operating screen.



If the wagon is not connected i.e. not getting power from the tractor, the controller will not start. The screen below will display until communication has begun by plugging in the wagon or pressing and holding the GO button on the controller for 1 or more seconds. After establishing communication, it will proceed directly to the next screen.

```
Waiting for
RF Forage Wagon
Communications...
```

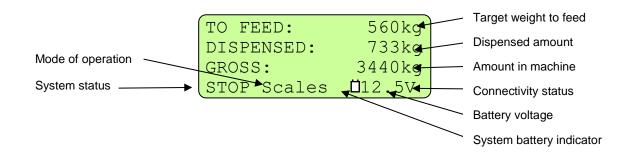
Once communication has begun between the devices, a screen similar to the one below will show.

| TO FEED: | 0 kg |
|-------------|----------------|
| DISPENSED: | 0 kg |
| GROSS: | 1860kg |
| STOP Scales | ü 12.5V |



In Scales mode, the screen will only display weight figures.

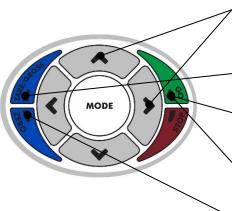
The operator can enter a target weight to feed when a beeper will sound.



Features:

- > The top line shows the weight to feed out before a beeper sounds.
- > The second line shows the weight dispensed since GO was pressed.
- > The third line shows the tare or gross weight in the machine.
- The bottom line of the screen shows the mode of operation (Scales), the battery voltage (highest voltage available to the unit. When disconnected from the tractor, this will be the internal battery voltage), and connectivity status.

Operating Notes:



The operator can adjust the weight to be dispensed by adjusting the 'TO FEED' figure. This is done by pressing UP or DOWN on the keypad when the 'TO FEED' figure is underlined. Use the RIGHT or LEFT button to move the underline cursor.

The operator can select between gross and tare weight to be displayed by pressing TARE/GROSS on the keypad.

The operator can zero only the dispensed weight by pressing GO on the keypad.

To allow the dispensed weight to accumulate and the target feed weight to work, the operator must press GO before commencing feeding.

The operator can zero the gross weight and dispensed weight by pressing ZERO on the keypad.



Hydraulic Requirements

For optimal machine performance the tractor used should be checked to provide an oil flow rate of between 30 and 60 litres per minute at full working pressure – Usually between 2500psi (170 Bar) and 2800psi (190 Bar). If these conditions are not satisfied, the feeder will perform poorly or not at all.

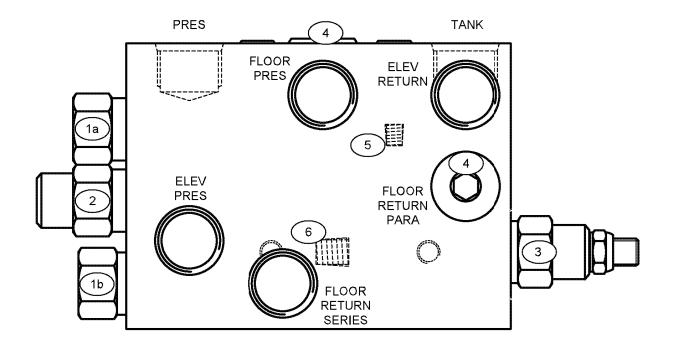
Technical Notes:

• Machines that develop or operate with a jerking or shuddering action can be rectified by fitting a non-standard inline valve (SCCB 154Z P8) with relevant fittings between the port marked "ELEV PRES: and the elevator motor. This preloads the hydraulic circuit and smooths the operation.



If orifice (5) is blocked then the cross conveyor will not drive load onto elevator when loaded.

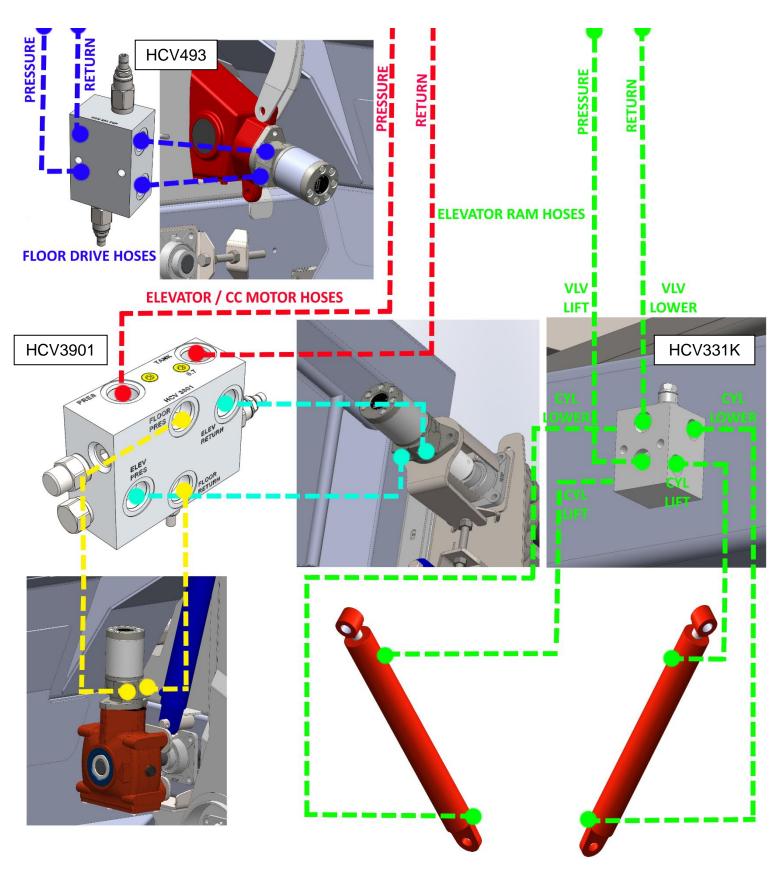
If orifice (6) is blocked then the floor will not slow down when the DPBB (3) is adjusted out and floor will likely overload and stall the elevator.





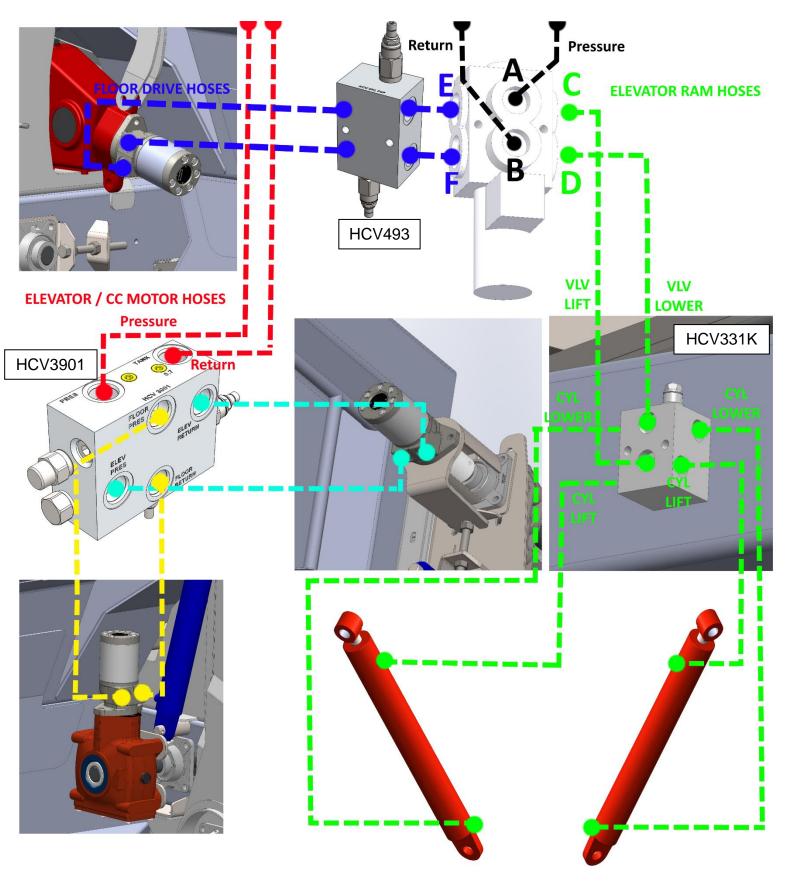
Hydraulic Hose Layout

Standard



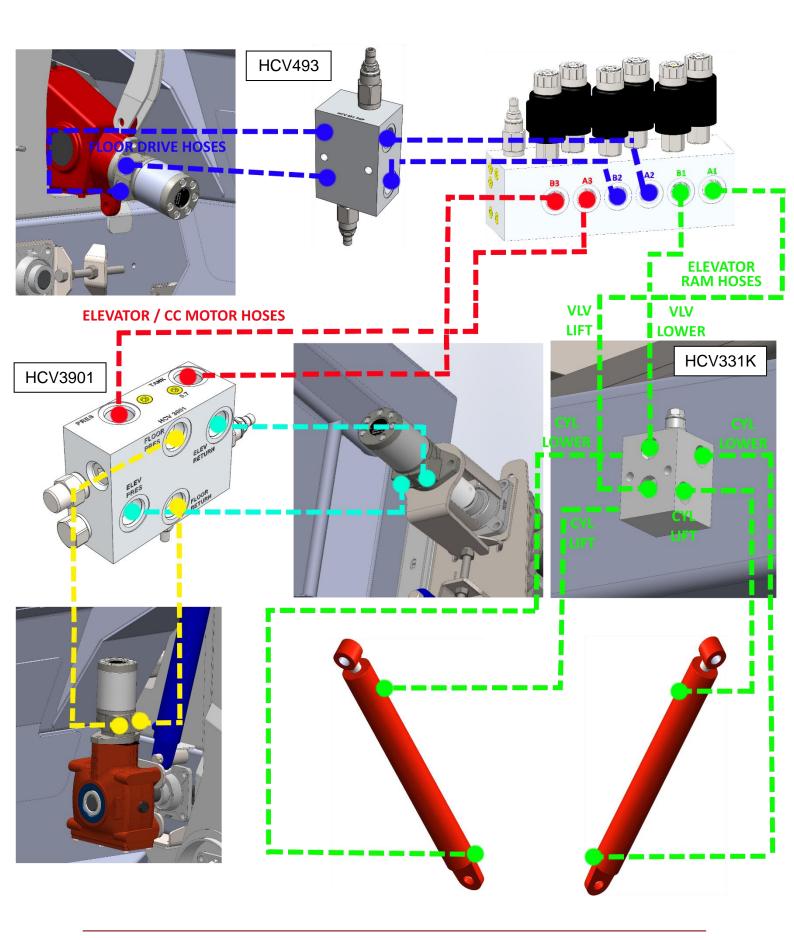


Option 2 – Diverter Valve





Option 3 – Joystick Control



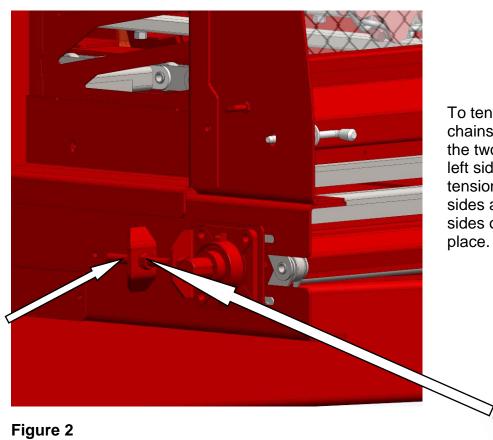


Maintenance



The location of the floor chain tensioners is at the rear of the machine as shown in Fig.1. To tension, loosen lock nut and wind adjuster bolt in to extend idler further rearward. Check tension of all chains as per the pre-service guidelines on page 10 then lock adjusters in place with lock nut.

Figure 1



To tension cross conveyor chains, loosen bolts fastening the two bearing flanges on the left side of the machine. Evenly tension shaft adjusters on both sides and tighten nuts on both sides of adjuster tab to fix in place.



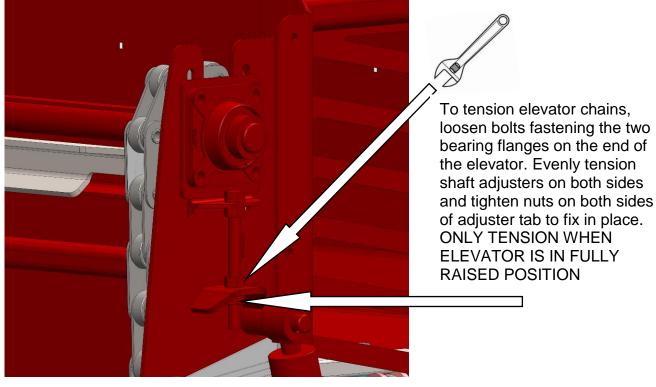


Figure 3

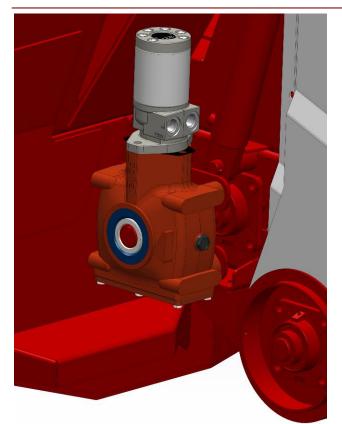


The main floor uses a motor and gearbox reduction drive located on the left side of the machine. Check oil levels through the sight glass on the side of the gearbox. Add oil as required through fill point on top.

Remote Greasing point for the driveshaft deadeyes located on front end of the bin on the left side – above step

Figure 4





The cross conveyor uses a motor and gearbox reduction drive located on the right side of the machine. Check oil levels through the sight glass on the gearbox. Add oil as required through fill point on side.

Figure 5



The back gate is protected by a crash lock mechanism that can be opened manually by pulling on the handle shown; otherwise the gate will open under pressure applied by a reversing load on the floor. The load setting of the crash lock system can be adjusted by removing the end cap fitting which encloses a compression spring that applies pressure to the ball bearing that locks the handle in place. The adjustment is made via a threaded adjuster within the spring assembly. Replace the end cap after adjusting.

Figure 6



Parts Section



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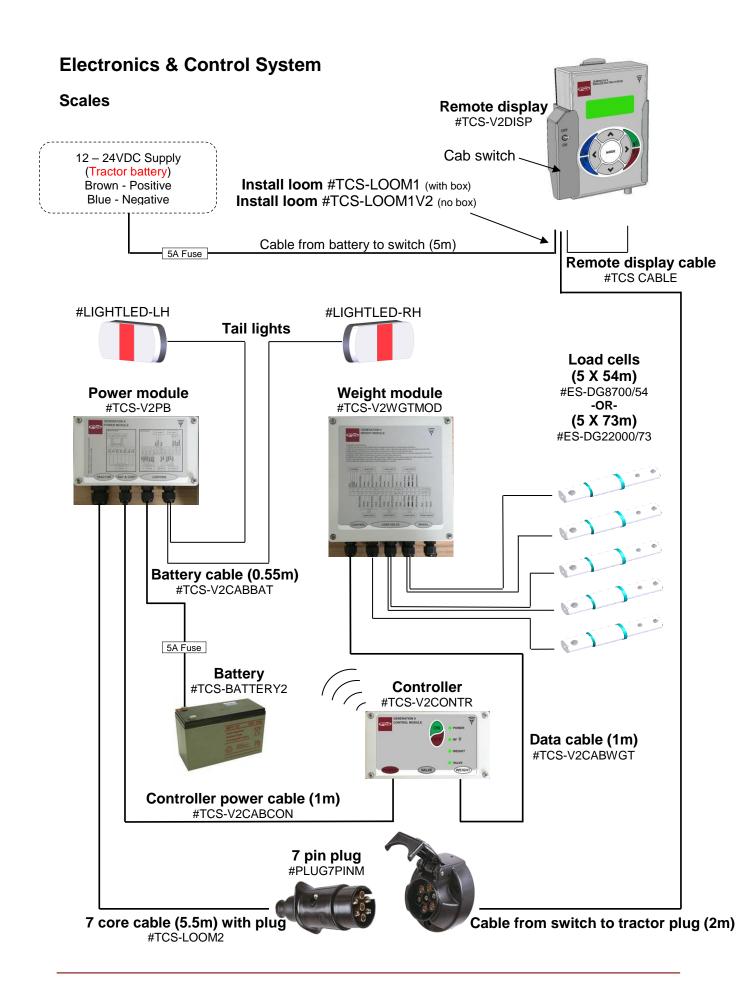
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Transfers & Decals

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-----------------------------------|------|
| 1.1 | 12697 | Transfer 'MULTIPLUS 13' | 2 |
| 1.2 | 12698 | Transfer 'MULTIPLUS 16' | 2 |
| 1.3 | 12699 | Transfer 'MULTIPLUS 19' | 2 |
| 4 | 995-1025 | Label 'Caution! Ensure Hydraulic' | 1 |
| 5 | 995-1212 | Label 'Warning - Ensure Chains' | 3 |
| 6 | 995-1221 | Label 'Stand Well Clear' | 3 |
| 7 | 995-1222 | Label 'Do Not Stand In' | 2 |
| 8 | 995-1223 | Label 'This Machine Has' | 1 |
| 9 | 995-1228 | Label 'Ensure Jack Is In' | 1 |
| 10 | 995-1229 | Label 'Do Not Operate' | 1 |
| 11 | 995-1230 | Label 'Read Operators Manual' | 1 |
| 12 | 995-1240 | Label 'DANGER' | 1 |
| 13 | 995-1245 | Label, Grease Gun | 3 |
| 14 | 995-3045 | Multiplus 'G" Decal - White | 1 |
| 15 | 12754 | Label, Warning - Drawbar | 1 |
| 16 | 12754 | Label, Warning - Chains & Bars | 4 |
| 17 | | HARDOX Sticker | 2 |







Diverter Valve Control – Up to May 2022

- Note: the red hand switch handle and loom may be replaced with switch box (see next page).



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | HYV12A270026 | Walvoil DFE052/6 6 Port Diverter Valve | 1 |
| 2 | GE-SPSL-1 | Handle Loom c/w Power Terminals, Socket, and Switch Handle | 1 |
| 3 | GE-SPSL-1A | Implement Loom c/w Loom Plug and DIN Plug | 1 |
| 4 | 135-4555 | Switch Handle | 1 |



Diverter Valve Control – May 2022 on



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | HYV12A270026 | Walvoil DFE052/6 6 Port Diverter Valve | 1 |
| 2 | 14263 | Switch Box Loom c/w Power Terminals, Socket and Switch box | 1 |
| 3 | GE-SPSL-1A | Implement Loom c/w loom Plug and DIN Plug | 1 |



Joystick Control

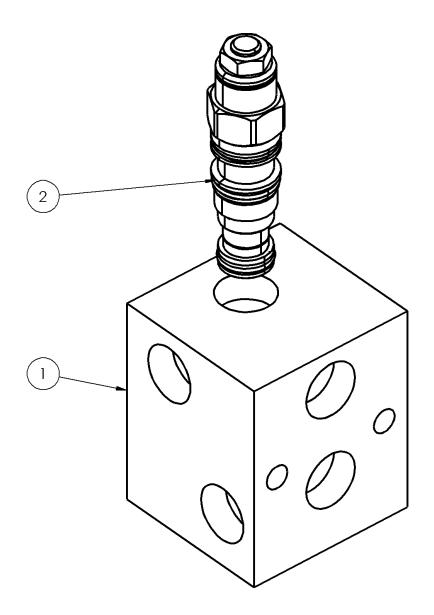


| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------|------|
| 1 | HYHCV 3744 | HCV 3 Bank Remote | 1 |
| 2 | GE-12693 | Implement Loom | 1 |
| 3 | GE-SPSL-6 | Control Unit Loom | 1 |
| 4 | 12691 | Circuit Board | 1 |
| 5 | 12668 | Joysick Box Assembly | 1 |
| 6 | 825-2593 | Joystick | 1 |
| 7 | 12669 | Adaptor Plate | 1 |



Hydraulic Control Valves

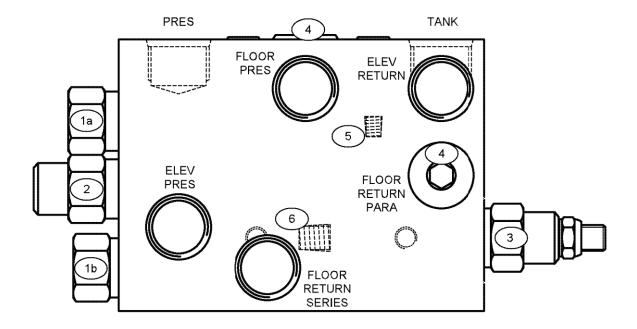
HCV 311K P6P CBCA



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | setting |
|----------|-------------|----------------------------|------|---------|
| 1 | HYHCV 331K | Valve Block | 1 | - |
| 2 | CBCA-LHN | Counterbalance Valve (3:1) | 1 | 3000psi |



HCV 1918A-1

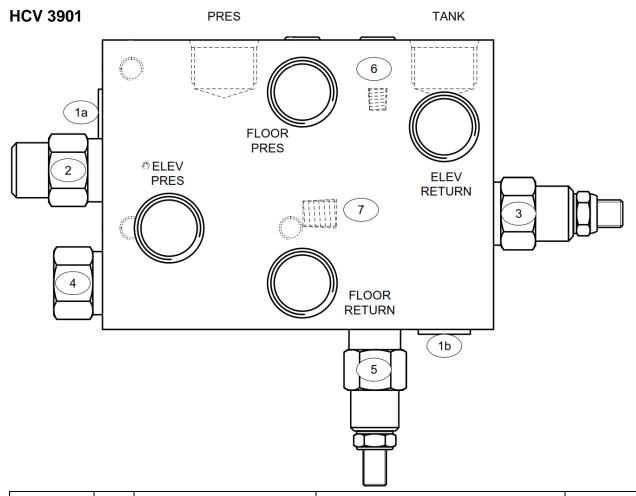


| Position | Qty | Part Number | Description | Setting |
|-----------|-----|-------------------|----------------------|---------|
| 1 (a & b) | 2 | CXDA XAN | Check Valve | 4 psi |
| 2 | 1 | LHDA XEN | Flow Compensator | 75 psi |
| 3 | 1 | DPBB LWN | Unload Sensing Valve | |
| 4 | 1 | 7/8" UN Plug | Blank Plug | |
| 5 | 1 | 1/16" NPT x 0.8mm | Dampening Orifice | |
| 6 | 1 | 1/8" BSPT x 0.8mm | Dampening Orifice | |

*HCV1918A-1 superseded by HCV3901

*If machine is fitted with valve HCV1918A-1, HCV311H P8P CKCD will be plumbed into the "ELEV RETURN" & "FLOOR PRES" ports.

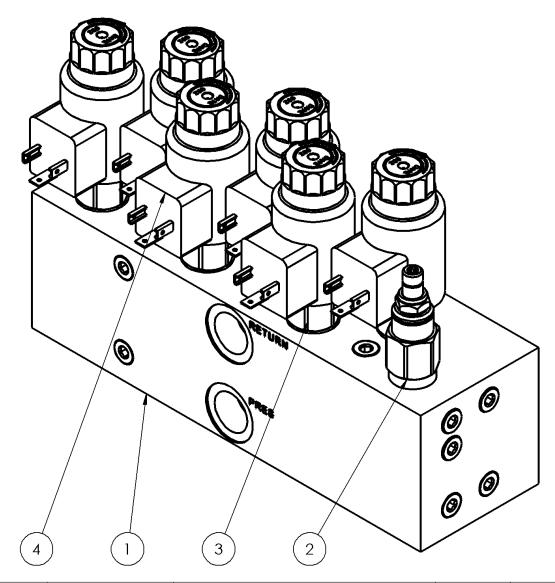




| Position | Qty | Part Number | Description | Setting |
|-----------|-----|-------------------|----------------------|----------|
| 1 (a & b) | 2 | CXBG XAN | Check Valve | 4 psi |
| 2 | 1 | LHDA XEN | Flow Compensator | 75 psi |
| 3 | 1 | DPBB LCN | Unload Sensing Valve | 1700 psi |
| 4 | 1 | CXDA XAN | Check Valve | 4 psi |
| 5 | 1 | RDBA LAN | Floor Relief Valve | 1700 psi |
| 6 | 1 | 1/16" NPT x 0.8mm | Dampening Orifice | |
| 7 | 1 | 1/8" BSPT x 0.8mm | Dampening Orifice | |



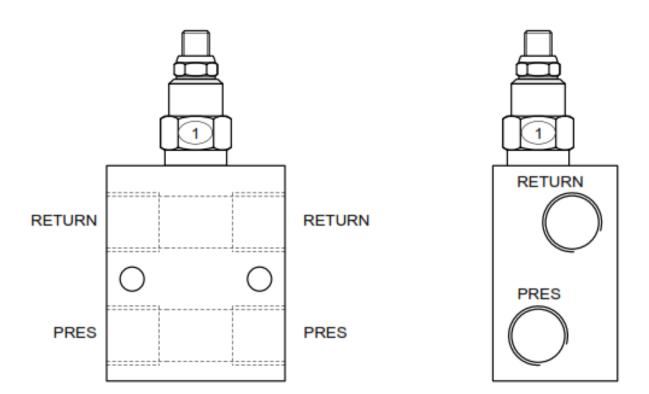
HCV 3744



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. | Setting |
|----------|-------------|--------------------------------|------|---------|
| 1 | HYHCV 3744 | HCV 3 Bank Remote - Complete | 1 | - |
| 2 | RDDA LWN | Direct Acting Relief | 1 | 3000psi |
| 3 | DMDA MNN | 3 Port Solenoid Selector Spool | 6 | - |
| 4 | 770 212 | 12V DC DIN Coil | 6 | - |



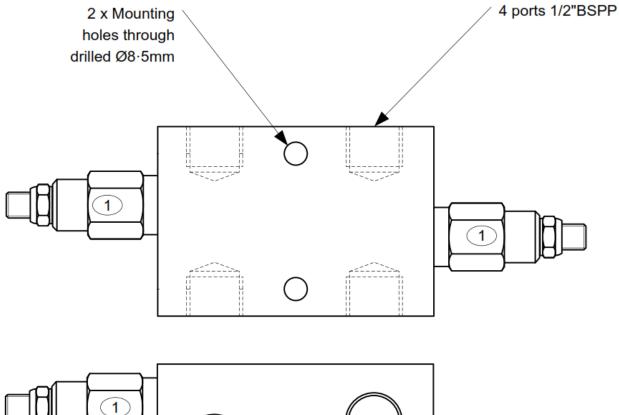
HCV 166H P8P RDDA



| Position | Qty | Supplier Part # | Description | Setting |
|----------|-----|-----------------|------------------|---------|
| 1 | 1 | RDDA LWN | D.A Relief Valve | |



HCV 493 P8P

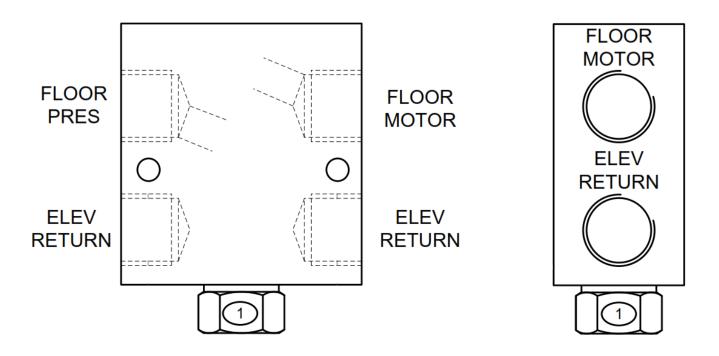




| Position | Qty | Supplier Part # | Description | Setting |
|----------|-----|-----------------|------------------|---------|
| 1 | 2 | RDDA L*N | D.A Relief Valve | 1800psi |



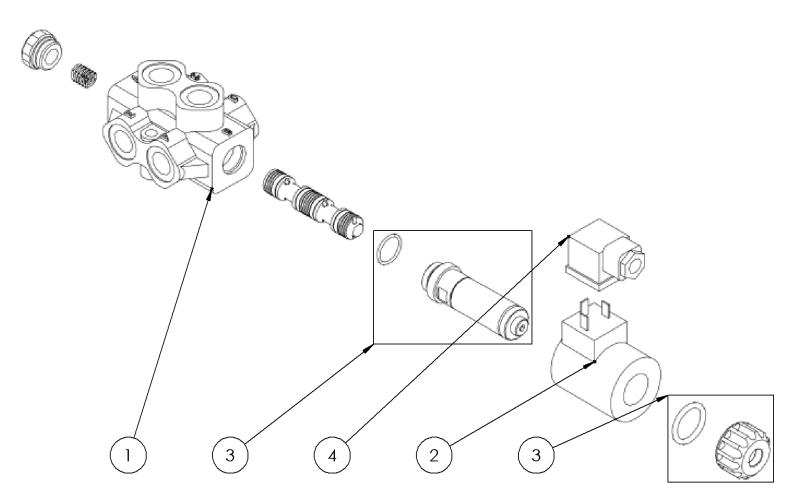
HCV 311H P8P CKCD



| Position | Qty | Supplier Part # | Description | Setting |
|----------|-----|-----------------|---------------------------|---------|
| 1 | 1 | CKCD XCN | Pilot To Open Check Valve | |



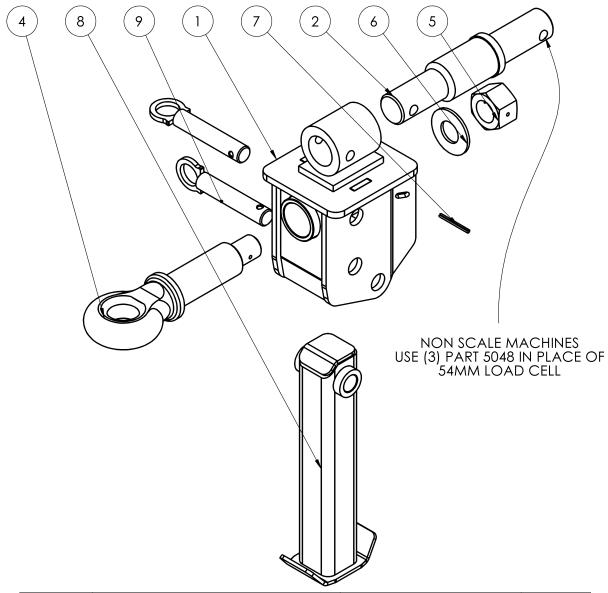
Walvoil DFE052/6



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|------------------------|------|
| 1 | HYV12A270026 | Valve Block - Complete | 1 |
| 2 | 4SOL515012 | 12V DC DIN Coil | 1 |
| 3 | 5SOL515000 | Solenoid Assembly | 1 |
| 4 | 11695 | DIN Coil Plug | 1 |



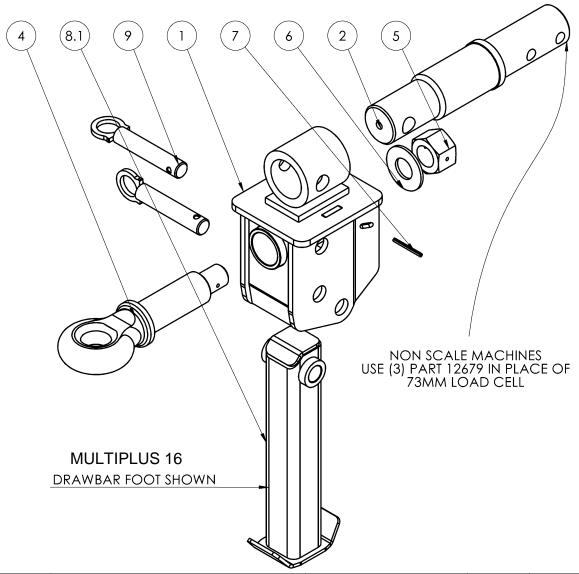
Tow Eye Assembly (MULTIPLUS 13)



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------------------------|------------------------|------|
| 1 | 12565 - Load Cell Tow Eye Assy | Load Cell Tow Eye Assy | 1 |
| 2 | ES-DG8700/54 | 54MM LOAD CELL | 1 |
| 3 | 50481 | Load Cell Block | 1 |
| 4 | te-07.910 | | 1 |
| 5 | toe eye nut | | 1 |
| 6 | Tow eye washer | Tow eye washer | 1 |
| 7 | Tow eye roll pin | Tow eye roll pin | 1 |
| 8 | 12570 - Drawbar Foot | Drawbar Foot | 1 |
| 9 | 12571 - Drawbar Foot Pin | Drawbar Foot Lock Pin | 2 |



Tow Eye Assembly (MULTIPLUS 16, 19)

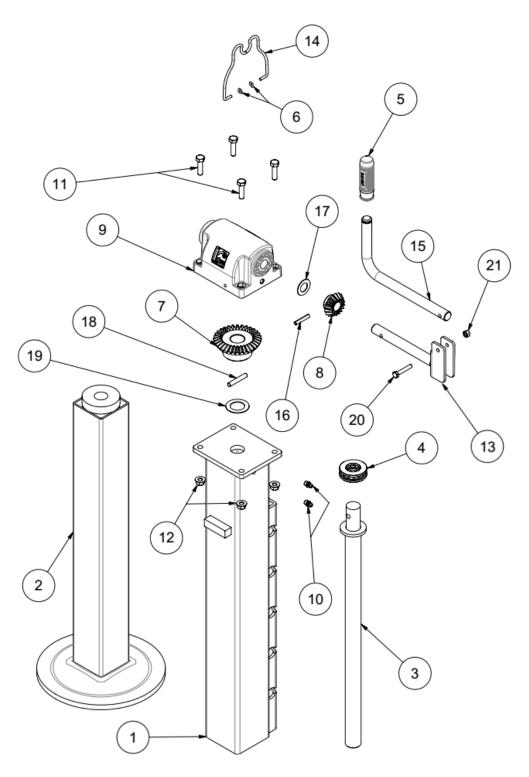


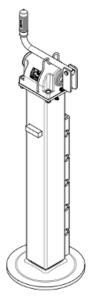
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY 5B | QTY 6B |
|----------|-------------------------------------|------------------------|-----------|-----------|
| 1 | 12636 - 73mm Load Cell Tow Eye Assy | Load Cell Tow Eye Assy | 1 | 1 |
| 2 | ES-DG22000/73 | 73MM LOAD CELL | 1 | 1 |
| 3 | 12679 | Load Cell Block | 1 | 1 |
| 4 | te-07.910 | Tow Eye | 1 | 1 |
| 5 | Tow eye nut | Tow Eye Nut | 1 | 1 |
| 6 | Tow eye washer | Tow eye washer | 1 | 1 |
| 7 | Tow eye roll pin | Tow eye roll pin | 1 | 1 |
| 8.1 | 12570 - Drawbar Foot | Drawbar Foot | 1 | - |
| 8.2 | 12643 - Drawbar Foot | Drawbar Foot | - | 1 |
| 9 | 12571 - Drawbar Foot Pin | Drawbar Foot Lock Pin | 2 | 2 |



Jack Assembly

RIMA Parking Jack

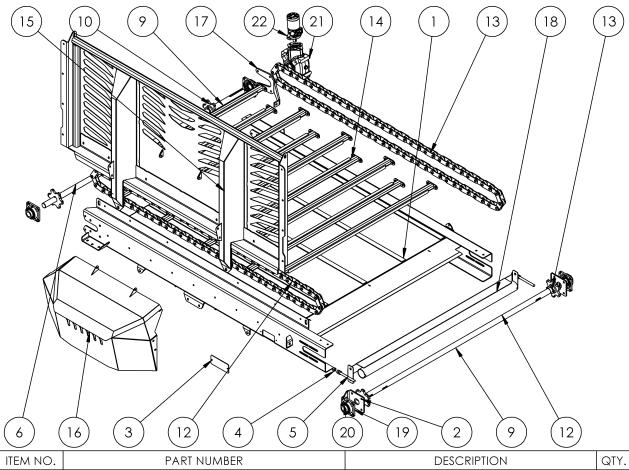




| 21 | 90064755 | 1 |
|-------|-----------|-------|
| 20 | 90076770 | 1 |
| 19 | 90068800 | 1 |
| 18 | 90070956 | 1 |
| 17 | 90068720 | 1 |
| 16 | 90071940 | 1 |
| 15 | 900411324 | 1 |
| 14 | 900416341 | 1 |
| 13 | 979303981 | 1 |
| 12 | 90064766 | 4 |
| 11 | 90079350 | 4 |
| 10 | 90039930 | 2 |
| 9 | 90049035 | 1 |
| 8 | 90033262 | 1 |
| 7 | 90033253 | 1 |
| 6 | 90069014 | 2 |
| 5 | 90041090 | 1 |
| 4 | 90034200 | 1 |
| 3 | 90057712 | 1 |
| 2 | 940655403 | 1 |
| 1 | 940275933 | 1 |
| Item: | Code: | Q.ty: |
| | | |



Feed Unit Assembly



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|---|---------------------------------|------|
| 1 | 12582 | CC Bed | 1 |
| 2 | 12586-2 | Bearing Adjuster | 2 |
| 3 | 12586-8 | Cover Plate | 1 |
| 4 | N16 | M16 HEX | 6 |
| 5 | 596-1004 adj screw | Adjuster Screw | 2 |
| 6 | 12590 - Cross Conveyor Drive Shaft Assy | CC Drive Shaft Assy | 1 |
| 7 | 12590-1 | Cross Conveyor Drive Shaft | 1 |
| 8 | 12620 | 6T 40mm Bore Sprocket | 2 |
| 9 | 12591 - Cross Conveyor Idler Shaft Assy | CC Idler Shaft Assy | 1 |
| 10 | 12591-1 | Cross Conveyor Idle Shaft | 1 |
| 11 | 12620 | 6T 40mm Bore Sprocket | 2 |
| 12 | 12583 | CC Chain & Bar Assy | 1 |
| 13 | Cross Conveyor Chain Assy | 3" Pitch Roller Chain | 2 |
| 14 | 12584 - Cross Conveyor Bar | Multifeeder CC Bar | 11 |
| 15 | 12592 | Front Wall Assy | 1 |
| 16 | 12577 | String Bin Assy | 1 |
| 17 | 12564-3 | CC Gearbox Mount | 1 |
| 18 | 12564-2 | CC Shaft Cover | 1 |
| 19 | HSGF208 | Bearing Housing, 4 Bolt | 4 |
| 20 | BRGYET208 | Bearing, 40mm w/ Locking Collar | 4 |
| 21 | GBRT120/40-PT | gearbox | 1 |
| 22 | HYM260-PT | Parker 260cc Hydraulic Motor | 1 |



Elevator Assembly

17

18

19

20

21

22

23

24

12600 - Elevator Idler Shaft Assy

12600-1

12620

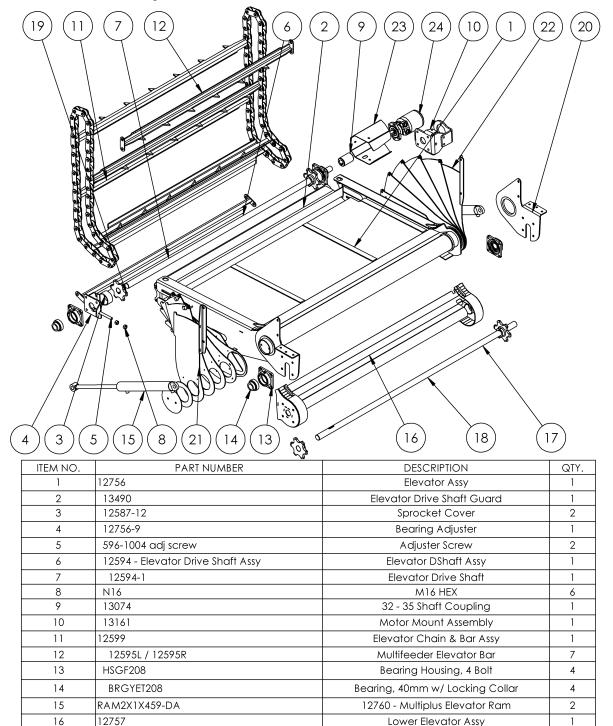
12758

13022

13407

13146

HYM500-PT



*Early machines fitted with 400cc motor use 127-2502 in place of Item 10, 13074

Lower Elevator Assy

Elevator Idle Shaft Assy

Elevator Idle Shaft

6T 40mm Bore Sprocket

Elevator Mount Assy

Elevator Concertina Assy, RH

Elevator Concertina Assy, LH

Motor Guard

Parker TG0530 Hydraulic Motor

1

1

1

4

2

1

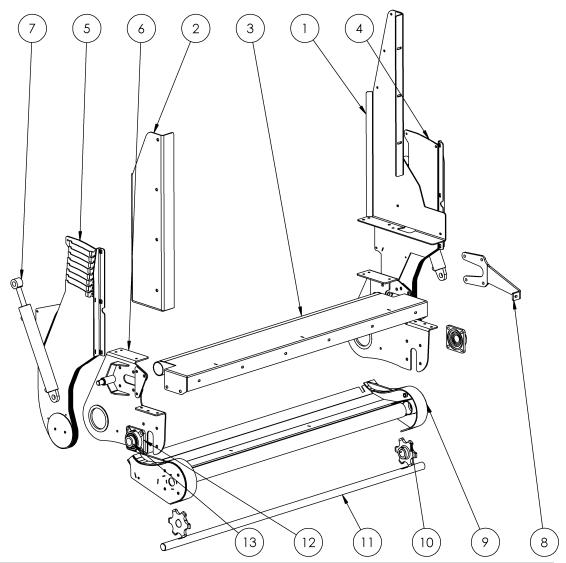
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1

1



Cross Conveyor Extension Assembly

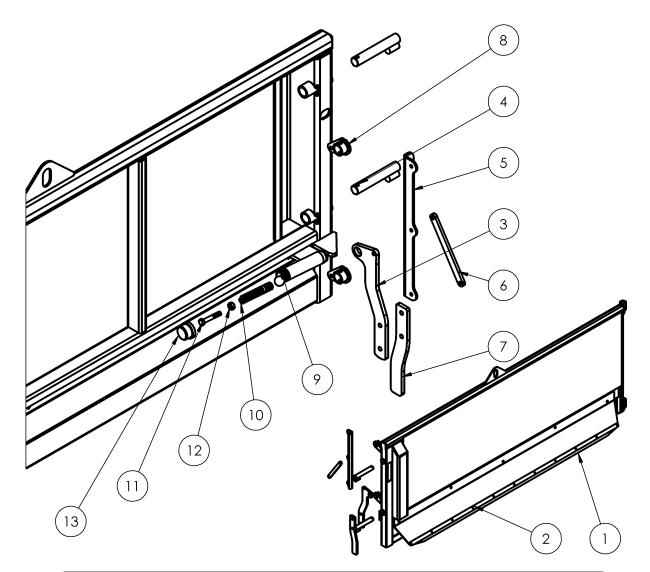


| ITEM NO. | PART NUMBER | DESCRIPTION | |
|----------|-------------|--------------------------------------|---|
| 1 | 13802 | SKF 40mm Y Bearing | 1 |
| 2 | 13801 | Elevator Fill Plate, Front | 1 |
| 3 | 13795-1 | Cross Conveyor Drive Shaft Cover | 1 |
| 4 | 13799 | RH Concertina Assembly | 1 |
| 5 | 13805 | LH Concertina Assembly | 1 |
| 6 | 13798 | Elevator Mount Assembly | 2 |
| 7 | RAM2X1X375 | Multiplus Elevator Ram, 375mm Stroke | 2 |
| 8 | 13796 | Gearbox Mount, Extended | 1 |
| 9 | 13797 | Extended Lower Elevator Assembly | 1 |
| 10 | 12620 | 6th Cast Sprocket, 40mm bore | 2 |
| 11 | 12600-1 | Multiplus Elevator Idler Sprocket | 1 |
| 12 | HSGF208 | 4 Bolt Bearing Housing | 2 |
| 13 | BRGYET208 | Bearing, 40mm w/ Locking Collar | 2 |

*Fitted to machines manufactured after June 2021



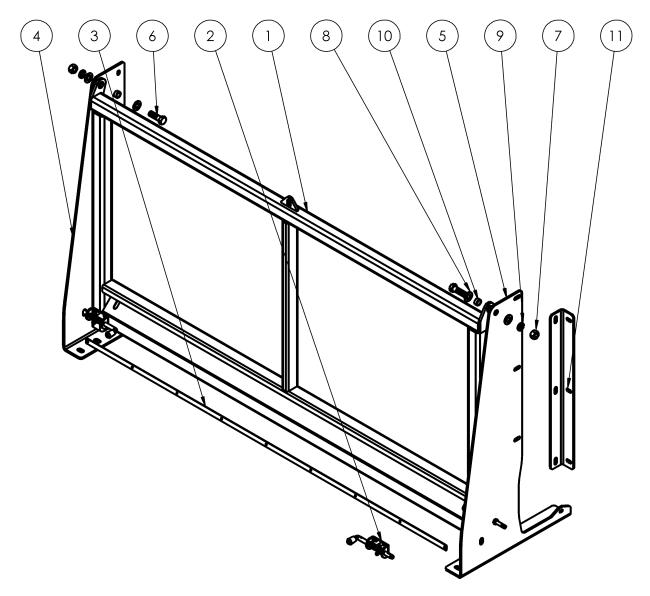
Rear Gate Assembly



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------------------|---------------------|------|
| 1 | 12568-1 | Seal Strip Plate | 1 |
| 2 | 12568-3 | Retaining Strip | 1 |
| 3 | 12568-5 | Latch Lever | 1 |
| 4 | 12568-6 | Locking Rod | 2 |
| 5 | 12568-7 | Latch Link | 1 |
| 6 | 12568-8 | Latch Pushrod | 1 |
| 7 | 12568-12 | Lever Handle | 1 |
| 8 | 12652 - Tailgate Collar | | 2 |
| 9 | BRGUC1 | Ball Bearing, 1" | 1 |
| 10 | SGC100X24 | Spring, Compression | 1 |
| 11 | B10X65 | M10 X 65 Bolt | 1 |
| 12 | NN10 | NUT, NYLOC M10 | 1 |
| 13 | PFCAP25G | Cap, Galvanised | 1 |



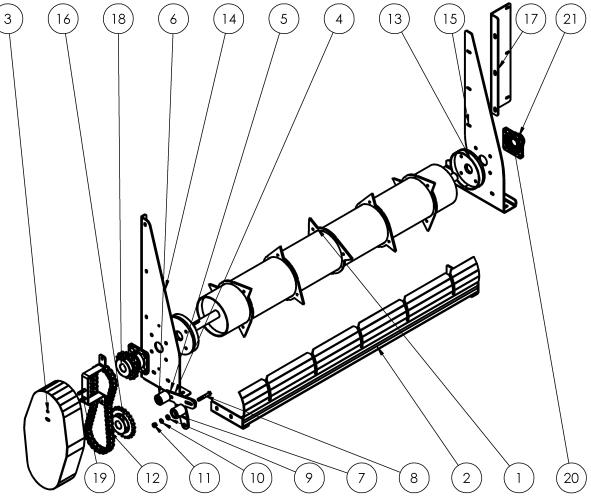
Side Gate Assembly



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-----------------------------|----------------------|------|
| 1 | 12601 - Side Top Hinge Gate | Top Hinge Gate Assy | 1 |
| 2 | COMAC4518 | Pin Spring Bolt 12mm | 2 |
| 3 | 12573-5 | Retainer Strip | 1 |
| 4 | 12573-1 | Front Gate Panel | 1 |
| 5 | 12573-2 | Rear Gate Panel | 1 |
| 6 | B16X50 | M16 X 50 Bolt | 2 |
| 7 | N16 | M16 HEX | 2 |
| 8 | WA16 | M16 Washer | 4 |
| 9 | WASG16 | M16 SPRING | 2 |
| 10 | 12573-3 | Door Bolt Bushing | 2 |
| 11 | 12573-4 | Angle Mount | 1 |



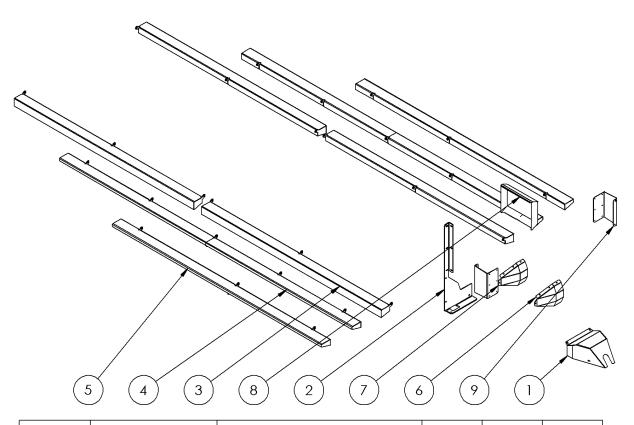
Shredder Assembly – Optional



| | . | | |
|----------|-----------------------------------|---------------------------|------|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | 12597 | Shredder Shaft Assy | 1 |
| 2 | 12598 | Shredder Scraper Assy | 1 |
| 3 | 12974 - Shredder Chain Cover Assy | Chain Guard | 1 |
| 4 | 12644 - Shredder Chain Tensioner | Chain Tensioner | 1 |
| 5 | 12644-1 | Chain Tensioner Profile | 1 |
| 6 | 595-1062 ass | tension roller assy | 2 |
| 7 | 595-1062 | Roller | 1 |
| 8 | B12X75 | M12 X 75 Bolt | 1 |
| 9 | WA12 | M12 Washer | 2 |
| 10 | WASG12 | M12 Spring Washer | 1 |
| 11 | N12 | M12 Nut | 1 |
| 12 | CH16B | 16B 1" Pitch Chain | 1 |
| 13 | 12596-1 | Shaft Ring | 2 |
| 14 | 12596-2 | Front Mount Panel | 1 |
| 15 | 12596-3 | Rear Shredder Panel | 1 |
| 16 | 12596-4 | 16B 23T Shredder Sprocket | 1 |
| 17 | 12596-5 | Mount Plate | 1 |
| 18 | 12596-6 | 16B 17T Shredder Sprocket | 1 |
| 19 | 12596-7 | Chain Guard Mount | 1 |
| 20 | BRGYAR208-2F | Bearing, 40mm | 2 |
| 21 | HSGF208 | Bearing Housing, 4 Bolt | 2 |
| | | | |



Panels, Guards & Covers



| ITEM NO. | PART NUMBER | DESCRIPTION | MP13 QTY. | MP16 QTY. | MP19 QTY. |
|----------|---------------|-------------------------|--------------|--------------|--------------|
| 1 | 12677 | Valve Block Cover | 1 | 1 | 1 |
| 2 | 12641 | Elevator Fill Plate | 1 | 1 | 1 |
| 3 | 12687 | MP18 Mudguard Extension | - | - | 4 |
| 4 | 12648 | MP16 Mudguard Extension | - | 2 | - |
| 5 | 12653 | MP13 Mudguard Extension | 2 | - | - |
| 6 | 12658 | 4 Chain Gearbox Guard | - | 1 | 1 |
| 7 | 12657 | 2 Chain Gearbox Guard | 1 | - | - |
| 8 | 12670-3 | Enclosure Cover | 1 | 1 | 1 |
| 9 | 12798L/12798R | Hazard Panel Mount | 2 | 2 | 2 |

*Early machines use 12656 - Valve block cover (separate stainless mount bolted to drawbar) in place of Item 1, 12677

*Item 8 only fitted to machines with scales

*Item 9 only fitted to machines with Visibility Kit



Floor Transmission – Two Chain Models (MULTIPLUS 13)

| (19) (| 17) (20) (18) (21) (| 16) (24) (10) (9) (25) (26 | , , , , , |
|----------|-----------------------------------|-----------------------------------|---------------|
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
| 1 | CH10HTLL | Chain 10mm High Tensile Long Link | 8.5m/85 Links |
| 2 | 605-2030 | Floor Slat, RF Series, 4 Chain | 46 |
| 3 | 605-3000 | Bush Assembly | 92 |
| 4 | 605-3001-1 | Chain Attachment Bush | 1 |
| 5 | BCH12x60 | M12X60 Coach Bolt | 1 |
| 6 | WASG12 | M12 Spring Washer | |
| 7 | N12 | M12 Nut | 1 |
| 8 | 12567 - 4B Front Drive Shaft Assy | Front Drive Shaft Assy | 1 |
| 9 | 12567-1 | 4B Drive Shaft | 1 |
| 10 | 210-0020 | Sprocket c/w Drive Plate | 4 |
| 11 | 211-0114 | Sprocket Drive Plate | 1 |
| 12 | CSTSPKT6D-SGSQ | Sprocket | 1 |
| 13 | 12578 - Gearbox Torque Arm Assy | | 1 |
| 14 | 12578-1 | Gearbox Torque Arm | 2 |
| 15 | 571-0085 | Rear Idler Assembly | 4 |
| 16 | 571-0087 | Adjuster Frame | |
| 17 | 210-0012 | Idle Sprocket | 1 |
| 18 | 597-1029-1 | 6TH IDLER AXLE ASSY (MAY '02 ON) | 1 |
| 19 | 597-1036 | Shaft Wrapping Guard | 2 |
| 20 | 625-0040 | Sprocket Spacer | 2 |
| 21 | GRN8-ST | GREASE NIPPLE | |
| 22 | WASG10 | M10 Spring washer | 1 |
| 23 | N10 | M10 Nut | 1 |
| 24 | 615-2002_ | Ø40mm Shaft Deadeye | 3 |
| 25 | GBRT200-40-PT | gearbox | |
| 26 | НҮМ260-РТ | PARKER 260CC Hydraulic Motor | 1 |



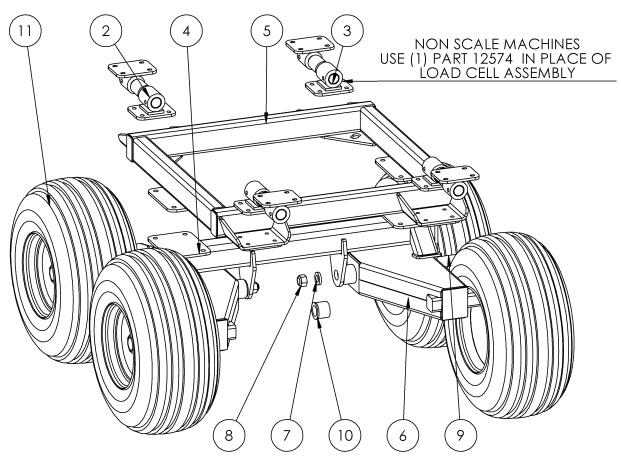
Floor Transmission – Four Chain Models (MULTIPLUS 16, 19)

| 1 100 | | | 13) |
|-------------|--|--|------------------------------------|
| 1 | | 5 6 23 4 | 22 15 |
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| 26 |) (8) (10) (9) (11) (24) (12) |) (25) (18) (21) (17) (19) |) 20 16 |
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. (5B / 6B) 10.9m/13.2m |
| 1 | CH10HTLL | Chain 10mm HT Long Link | 10.9m/13.2m 109 Links/132 Links |
| 2 | 605-2030 | Floor Slat, RF Series, 4 Chain | 54 / 66 |
| 3 | 605-3000 | Bush Assembly | 108 / 132 |
| 4 | 605-3001-1 | Chain Attachment Bush | 1 |
| 5 | BCH12x60 | M12X60 Coach Bolt | 1 |
| 6 | WASG12 | M12 Spring Washer | 1 |
| 7 | N12 | M12 Nut | 1 |
| 8 | 12632 - 5B Front Drive Shaft Assy | Front Drive Shaft Assy | 1 |
| 9 | 12632-1 | 5B Driveshaft | 1 |
| 10 | 210-0030 | Drive Sprocket c/w Drive Plate | 4 |
| 11 | CSTSPKT6D-SGSQ | Sprocket | 1 |
| 12 | 211-0121 | Sprocket Drive Plate | 1 |
| 13 | 12578 - Gearbox Torque Arm Assy | Contractor | 1 |
| 14 | 12578-1 | Gearbox Torque Arm | 2 |
| 15 | 571-0085 | Rear Idler Assembly | 4 |
| 16 | 571-0087 | Adjuster Frame | |
| 17 | 210-0012 | | 1 |
| 18 | 597-1029-1 597-1024 | 6TH IDLER AXLE ASSY (MAY '02 ON) | 1 2 |
| | 597-1036 | Shaft Wrapping Guard | 2 |
| 20 | 625-0040 | | |
| 21 22 | GRN8-ST WASG10 | GREASE NIPPLE | 1 |
| | | M10 Spring washer | |
| 23 | N10 GBRT200-40-PT | M10 Nut gearbox | 1 |
| 24 | HYM260-PT | Parker 260cc Hydraulic Motor | 1 |
| | | Ø45mm Shaft Deadeye | · · |
| 26 | 615-2023-1.00-45mm deadeye bearing | y 45mm shan Deadeye | 5 |



Axle / Subframe Assembly – MULTIPLUS 13

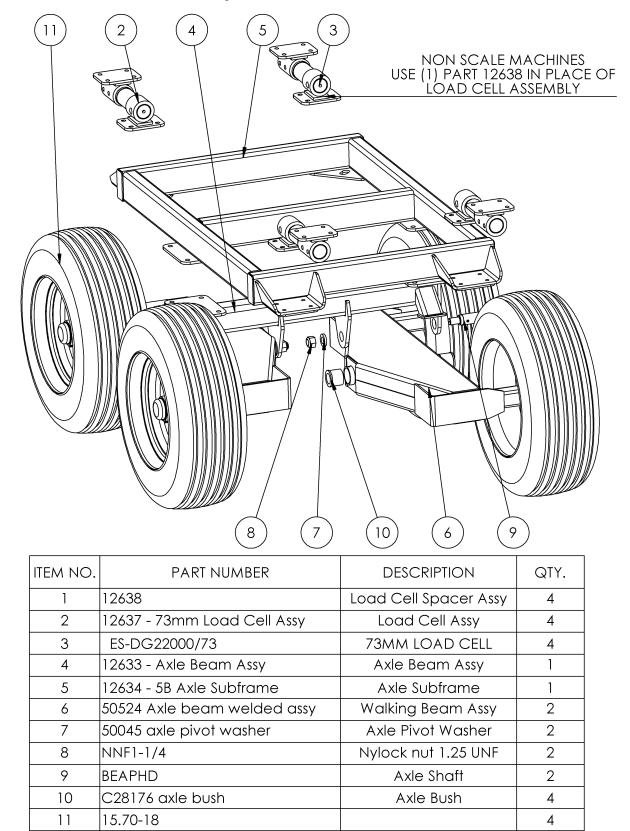
- Parts list applies to all machines fitted with standard 400 X 15.5 Tyres



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|------------------------------------|----------------------------|------|
| 1 | 12574 | Load Cell Spacer Assy | 4 |
| 2 | 12569 - Multifeeder Load Cell Assy | Load Cell Assy | 4 |
| 3 | ES-DG8700/54 | 54MM LOAD CELL | 4 |
| 4 | 12580 - Axle Beam Assy | Axle Beam Assy | 1 |
| 5 | 12581 - 4B Axle Subframe | Axle Subframe | 1 |
| 6 | 50334 | Walking Beam Axle Assembly | 2 |
| 7 | 50045 axle pivot washer | Axle Pivot Washer | 2 |
| 8 | NNF1-1/4 | Nylock nut 1.25 UNF | 2 |
| 9 | BEAPHD | Axle Shaft | 2 |
| 10 | C28176 axle bush | Axle Bush | 4 |
| 11 | 400x15.5 | | 4 |



Axle / Subframe Assembly – MULTIPLUS 16

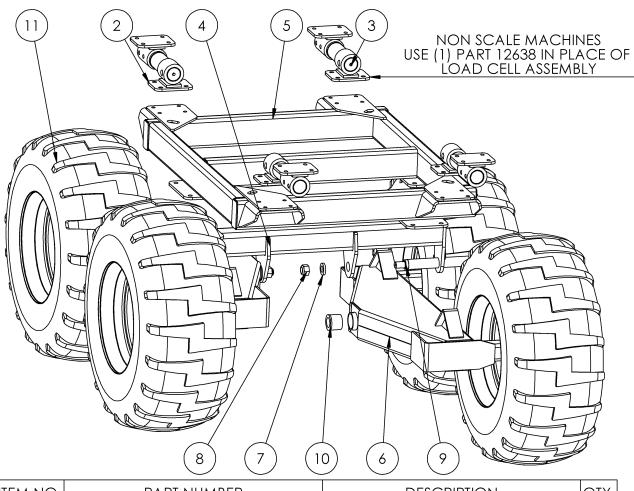


- Parts list applies to all machines fitted with standard 15.0 / 70 - 18 Tyres



Axle / Subframe Assembly – MULTIPLUS 19

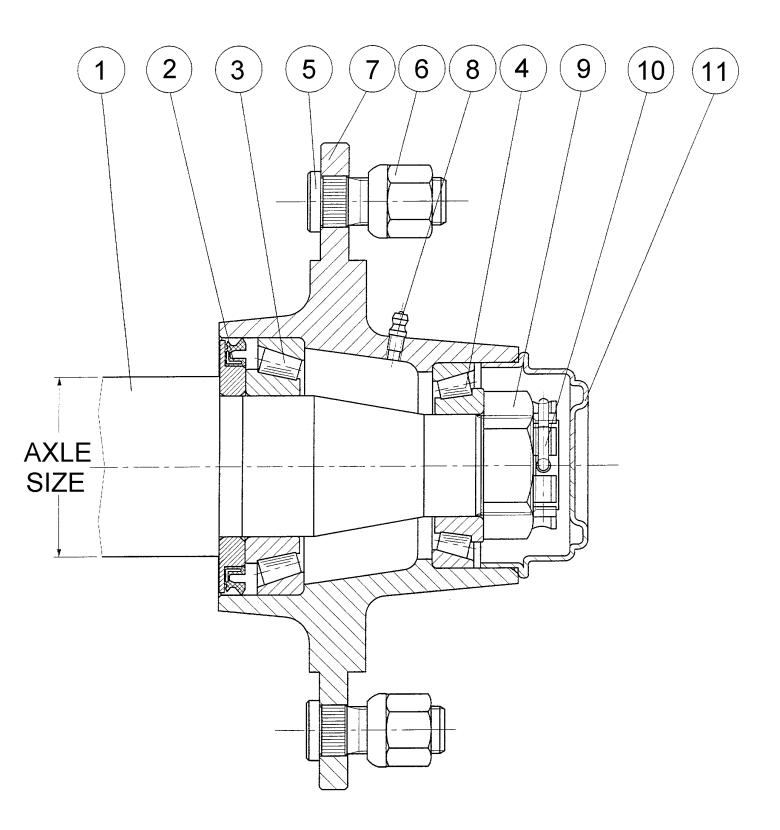
- Parts list applies to all machines fitted with standard 500 / 60 - 22.5 Tyres



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-----------------------------|-----------------------|------|
| 1 | 12638 | Load Cell Spacer Assy | 4 |
| 2 | 12637 - 73mm Load Cell Assy | Load Cell Assy | 4 |
| 3 | ES-DG22000/73 | 73MM LOAD CELL | 4 |
| 4 | 12684 - Axle Beam Assy | Axle Beam Assy | 1 |
| 5 | 12685 - 6B Axle Subframe | Axle Subframe | 1 |
| 6 | 50797 Axle Beam Welded Assy | Walking Beam Assy | 2 |
| 7 | 50045 axle pivot washer | Axle Pivot Washer | 2 |
| 8 | NNF1-1/4 | Nylock nut 1.25 UNF | 2 |
| 9 | BEAPHD | Axle Shaft | 2 |
| 10 | C28176 axle bush | Axle Bush | 4 |
| 11 | 500.60-22.5 | | 4 |



Hub Assembly – ADR





| Item Giltrap Part # | Ciltron Dort # | Description | Quantity | | |
|---------------------|----------------|--------------------------------|----------|------|------|
| | Gilliap Part # | | 70mm | 80mm | 90mm |
| 1 | HUB3000KG | Complete Stub Axle, ADR 6 | 1 | | |
| 1 | HUB4250KG | Complete Stub Axle, ADR 8 | | 1 | |
| 1 | HUB5000KG | Complete Stub Axle, ADR 8 | | | 1 |
| 2 | 110-0194 | Seal 67x120x12 O/A | 1 | | |
| 2 | 110-0195 | Seal 78x130x10 O/A | | 1 | |
| 2 | 110-0196 | Seal 82x140x10 O/A | | | 1 |
| 3 | BRG32210J2 | Taper Roller Bearing, 32210 J2 | 1 | | |
| 3 | BRG32212J2 | Taper Roller Bearing, 32212 J2 | | 1 | |
| 3 | BRG32213J2 | Taper Roller Bearing, 32213 J2 | | | 1 |
| 4 | BRG30213J2 | Taper Roller Bearing, 30213 J2 | 1 | | |
| 4 | BRG32215J2 | Taper Roller Bearing, 32215 J2 | | 1 | |
| 4 | BRG32216J2 | Taper Roller Bearing, 32216 J2 | | | 1 |
| 5 | 110-0945 | Wheel Stud, M18x50 | 6 | 8 | |
| 5 | 110-0950 | Wheel Stud, M20x60x1.5 | | | 8 |
| 6 | 110-0917 | Wheel Nut, M18 | 6 | 8 | |
| 6 | 110-0919 | Wheel Nut, M20x1.5 | | | 8 |
| 7 | - | Hub Only | 1 | 1 | 1 |
| 8 | GRN8-45 | Grease Nipple, M8x1.0 45 deg | 1 | 1 | 1 |
| 9 | 110-1047 | Slotted Nut, M39x1.5 | 1 | | |
| 9 | 110-1060 | Slotted Washer Nut, M48x1.5 | | 1 | 1 |
| 10 | - | Retaining Clip (or Split Pin | 1 | | |
| 10 | - | Retaining Clip (or Split Pin | | 1 | |
| 10 | - | Retaining Clip (or Split Pin | | | 1 |
| 11 | 110-0881 | Grease Cap ADR Pressed | 1 | | |
| 11 | 110-0883 | Grease Cap ADR Pressed | | 1 | |
| 11 | 110-0884 | Grease Cap ADR Pressed | | | 1 |



Gearbox

Berma RT120

| \sim | | Ridutto | ore RT120 Ø40 | |
|--------|------|---------|-------------------------|-----|
| | | CODIC | E 13039 | |
| BERMA | Fig. | Rif. | Descrizione | Qt. |
| | 1 | 13092 | Scatola RT120 | 1 |
| | 2 | 13094 | Mozzo Ø40 | 1 |
| | 3 | 13093 | Corona Z=45 | 1 |
| | 4 | 3429 | Seeger E 65 | 1 |
| | 5 | 13109 | Cuscinetto 32012 | 1 |
| | 6 | 3353 | Cuscinetto 6012 | 1 |
| | 7 | 3438 | Seeger I 95 | 1 |
| | 8 | 13091 | Pignone Z=11 | 1 |
| | 9 | 13108 | Seeger E 50x3 rinf. | 2 |
| | 10 | 10552 | Cuscinetto 6010-2RS | 1 |
| | 11 | 1538 | Cuscinetto 6010 | 1 |
| | 12 | 3435 | Seeger I 80 | 1 |
| | 13 | 8889 | Anello di ten. 60/95/10 | 1 |
| | 14 | 3660 | Anello di ten. 60/85/10 | 1 |
| | 15 | 1714 | Tappo scarico Ø1/2"Gas | 1 |
| | 16 | 5689 | Tappo sfiato Ø1/2"Gas | 1 |
| | 17 | 8671 | Guarnizione x motore | 1 |
| | 18 | 13097 | Coperchio | 1 |
| | 19 | 13107 | Guarnizione coperchio | 1 |
| | 20 | 1257 | Spia liv. olio Ø1/2"Gas | 1 |
| | 21 | 3284 | Vite TE M8x16-8G | 6 |

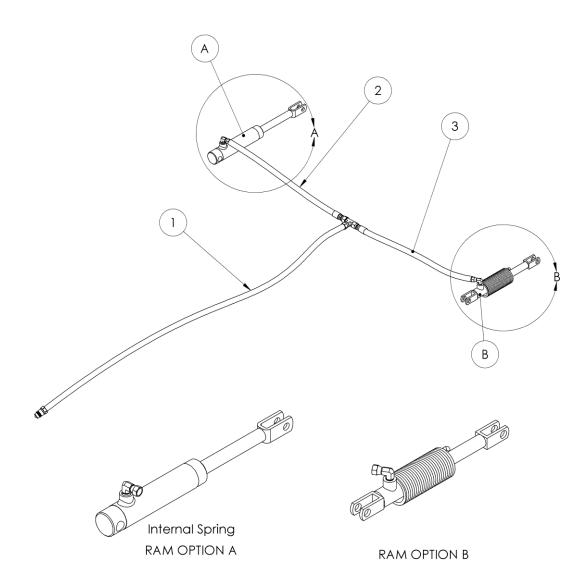


Berma RT200

| | | Ridutto | ore RT200 Ø45 | |
|--|------|---------|--------------------------|-----|
| | | CODIC | E 9358 | |
| BERMA | Fig. | Rif. | Descrizione | Qt. |
| | 1 | 9360 | Scatola RT200 | 1 |
| | 2 | 8670-8 | Mozzo Ø45 | 1 |
| \sim (21) | 3 | 9347 | Ruota dentata Z=53 | 1 |
| | 4 | 8703 | Seeger E 72 | 1 |
| | 5 | 8702 | Cuscinetto 6013 | 2 |
| | 6 | 3439 | Seeger I 100 | 2 |
| | 7 | 9346 | Pignone di rinvio Z=10 | 1 |
| A CONTRACTOR OF CONTRACTOR | 8 | 9359 | Corona Z=31 | 1 |
| | 9 | 3401 | Chiavetta 10x8x25 | 2 |
| | 10 | 3333 | Cuscinetto 6207 | 1 |
| | 11 | 3435 | Seeger I 80 | 2 |
| 8380 10 12 19 | 12 | 3434 | Seeger I 72 | 1 |
| | 13 | 3339 | Cuscinetto 6307 | 1 |
| | 14 | 9255 | Pignone Z=10 | 1 |
| | 15 | 1538 | Cuscinetto 6010 | 1 |
| | 16 | 3428 | Seeger E 50 | 1 |
| | 17 | 8701 | Anello di ten. 65/100/10 | 2 |
| | 18 | 8243 | Tappo Ø80 sp.10 | 1 |
| | 19 | 8490 | Tappo Ø72 sp.10 | 1 |
| | 20 | 1257 | Spia liv. olio Ø1/2"Gas | 1 |
| | 21 | 5689 | Tappo sfiato Ø1/2"Gas | 1 |
| | 22 | 8671 | Guarnizione x motore | 1 |
| | 23 | 9361 | Guarnizione coperchio | 1 |
| | 24 | 9362 | Coperchio | 1 |
| | 25 | 3284 | Vite TE M8x16-8G | 6 |



Brake Hose & Cylinder Configurations



| Item No | Part Number | Description | Quantity |
|---------|-------------------|------------------|----------|
| A | RAMAX94125S-PT | Type A Brake Ram | 2 |
| В | RAMADRD030/025-PT | Type B Brake Ram | 2 |
| | | | |



Notes