EZ RATION PROCESSOR
RCMR Inc.

Owner's Manual

For serial numbers beginning with: M3RA, M3RT, & H3RT & last 4 digits of 1200 through 1346

Go to Page: 47 for serial numbers with last 4 digits 1347 or higher and beginning with: H3RT, C4HT, C4HTG, C6HT, or C6HTG

EZ RATION
PROCESSOR
RCMR INC.
P.O. BOX 140
KIM, CO 81049
Phone 800 242 9599
Fax 719-643-5275
www.ezration.com

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RCMR, INC. (hereinafter referred to as "RCMR") hereby expressly warrants to the original first-use retail purchaser for a period of twelve months from the date of new product delivery that its model EZ RATION Processor will be free of defects in factory workmanship and material at the time of shipment from RCMR's manufacturing facility, Herington, Kansas.

RCMR will replace without charge for the part(s) covered by this express warranty which under normal use and service fails to conform to this warranty, provided RCMR, Inc., or RCMR's authorized dealer or distributor is duly notified of the failure and such part(s) are returned to RCMR, Inc., or the RCMR dealer or distributor, transportation charges prepaid, within the prescribed duration that this warranty is in effect. Replacement Parts- if they are for a machine still within its original 12 month warranty on parts - are warranted to be free of defects in materials and workmanship for a period of 90 days from the date of replacement installation. Parts obtained under the terms of this express warranty must be obtained from RCMR, Inc., or at an authorized RCMR dealer.

Warranty coverage is limited to replacing any part, at no charge for the part to the original customer. This express warranty does not include mileage or shipping or labor or expense for transporting the dealer's mechanic to or from the customer's machine, nor does it include mileage or expense for transporting the machine itself.

RCMR agrees to make available to the original purchaser whatever warranty benefits may be made available to RCMR by the mfg of components built by other companies but marketed in conjunction with RCMR products. Such components include hydraulic motors, control valves, fittings, and gearboxes.

This express warranty shall not apply to any part of said product in which in the judgment of RCMR has been subjected to misuse, abuse, negligence, accident, operation in excess of recommended capacities, has served its normal wear life, or which has been altered or repaired in any manner not authorized by RCMR. Furthermore, this warranty shall not cover any damage or malfunction due to failure to provide reasonable and necessary maintenance.

RCMR is constantly striving to improve its products and therefore reserves the right to change design, specifications and/or material without notice and without any obligation or liability on prior purchases.

RCMR expressly limits the duration of any implied warranty of merchantability or implied warranty of fitness for a particular purpose which arises under state law to the duration RCMR's express warranty only (12 months from date of delivery to original retail purchaser on parts).

RCMR shall not be liable for consequential damages or contingent liabilities including; but not limited to, loss of life, personal injury, loss of crops/livestock, loss due to fire or water property damage and consequential trade or other commercial loss arising out of the failure of RCMR's product.

This warranty gives you specific legal rights, and you may also have rights, which vary from state to state. If you have questions about this warranty contact Customer Service Manager, RCMR, Inc., PO BOX 140, Kim, Colorado 81049, Telephone (800) 242-9599.

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EZ Ration Processor operating instructions.

Here is a quick overview to help get started

- Your unit should have been dry run at the factory and all set screws and chains checked. A second check is always good and may catch anything that could have come loose during delivery. Check the PTO driveline where it connects to the PTO (truck mount) again after the first 25 to 50 hours of use and then regularly during maintenance.

- We always encourage everyone to give their new EZ Ration Processor a quick once over checking all set screws and chain tensions, and alignments, before they put the first bale on it. Also run the knives and floor chains. Make sure you have the hydraulic hoses paired up correctly (tractor pull models) and the floor chains and auger are working correctly. (see start up instruction procedures page)

- If you have a tractor pull EZ Ration Processor and the floors are not moving, make sure you have the hoses paired correctly, your tractor hydraulics on and the floors turned on at the control box. Make sure the control box on/off switch is on and lit up and the speed dial is turned up to 50% or more.

- If they are still not moving you are probably running the hydraulic fluid through the system backwards. At that point you need to change the direction with the hydraulic controls in the tractor or switch the hydraulic hoses, but make sure to keep them paired correctly.

- The two toggle switches in the lower left hand corner of the control box reverse the floor direction. (One for each side) The floors have to be turned on and speed dials turned up then activate the reverser switches. Note: The tractor pull version will not reverse the floor direction by reversing the flow of the hydraulic fluid with the control lever in the tractor.

- Note: This is very important on the tractor pull models. **Make sure and ALWAYS turn on the PTO before turning on the floors & make sure and ALWAYS turn off the floors before turning off the PTO.** It is also very important that the bales are set on the floor chains straight. If they are set on the floor chains at an angle they can get to pushing against each other as the bales on one floor chain pass the bales on the other floor chain. They can then wedge into the beater house and lock up.

- RCMR Part # 01-058 is a 667X - 6 tooth - 1 ¼ inch bore with a ¼ inch kwy - sprocket, this is the drive sprocket for the floor chains, it should be what breaks if the floors get jammed up or are left on and the beaters are shut off (trailer mounted models only) Again: always turn on the PTO first then turn on the floors and always shut off floors first and then the knifes and cross conveyor on tractor pull models. A lot of customers will keep a spare 667X 6T 1 ¼ B sprocket (RCMR part # 01-058) on hand just in case, call us if you would like us to send you one. Also there is a shear bolt on the PTO right where it hooks to the tractor if something jams the beaters and something has to give this shear bolt should break (older models only).

- The Cross conveyor will typically squeak like a bearing is going out when it is being run dry --it is the slats dragging on the bottom -- and is ok--it will usually quit shortly after you start running hay through it.

- If you ordered a Knife hood extension, (for stacking mid-size bales) the extension will be sent but not installed for shipping height purposes. There will be two triangular formed pieces of metal with holes in the edges. Take the bolt out of the sides of the top plate on the beater housing and loosen those on the front. Install the two triangular metal pieces on each side and retighten the bolts.

- The control box has a fuse that is on the side of the box. It is sometimes pulled on truck mount models and taped on the top of the box. Make sure the fuse is properly inserted in the control box fuse receptacle.

We know you will find the EZ Ration Processor to be a
huge asset in your operation.
Please don't hesitate to call if you have any questions
1 800 242 9599

Safety First

1. Read and understand both the tractor or truck Operator Manuals and these Operating Instructions prior to using the EZ Ration Processor. Lack of knowledge can lead to accidents
2. It is the owner's responsibility to make sure anyone operating the EZ Ration Processor reads and understands these operating instructions before operating the machine.
3. Review safety sticker, shield, and guard location diagram and make sure all stickers, shields, and guards are in place.
4. If any safety stickers, safety shields, or guard are missing replace immediately. (see page 16 for safety sticker placement) Contact RCMR, Inc. at RCMR, Inc. PO Box 140, Kim, CO 81049 or call 800 242 9599 for replacements.
5. Do not allow bystanders in the work or feeding area.
6. Make sure truck or tractor is shut off before servicing, adjusting, or cleaning the machine.
7. NEVER EVER attempt to clean, unclog, service, or adjust, the machine, with the machine, tractor, or truck running.
8. Make sure proper lights and signs are attached for your particular use.

Operating Instruction

Tractor Pull EZ Ration Processor

1. Tractor requirements – 120 Horsepower is recommended – 1000 speed PTO – 16 GPM hydraulic system
2. Make sure tractor hitch is adjusted correctly.
3. Make sure PTO is connected correctly.
4. Connect hydraulic hoses to tractor taking care to keep hydraulic hoses paired correctly.
5. Set up control box in the cab of the tractor to be used.
6. Connect the red wire to a good 12 volt source (11.5 volts will not work – testing source with volt meter is recommended) connecting direct to the positive battery terminal is recommended. There is a fuse in the control box.
7. Connect black wire to a good ground. (grounding it to the battery's negative terminal is recommended)
8. The blue wire in the power plug on the control box is provided as a fused power source for scale monitors. If you do not have scale monitors make sure it is covered good so as not to ground out on any ground source. (Do not remove as you may want to add scales later.)
9. Connect the wiring harness to the control box. Make sure the harness is connected correctly.
10. Before loading bales (with PTO off) make sure floor chains move forward when: a) tractor hydraulic lever is turned on or put in float position b) the floor on/off switch on the control box is turned on and lights up c) the speed control dial is turned to at least 50% or more

11. If the floors do not move you are running the hydraulic fluid through the system backwards. Either move the tractor hydraulic control lever the other direction or switch the hoses but keep them paired correctly.
12. If your EZ Ration Processor is equipped with a Grain Attachment use the same procedure to make sure the auger in the grain bin is turning correctly
13. The speed of the floor chains and the auger in the grain attachment are all controlled individually by adjusting the corresponding controls.
14. It is recommended that you start in the middle with each floor chain speed control dial then back off if less hay is required in the mix and increase the side that more hay is required of in the mix. Note: The numbers on the speed control dial may not directly correlate in ratio and speed depending on the tractor's hydraulics.
15. The tractor PTO turns on the cutting knifes and the cross or delivery conveyor.
16. **When Feeding always turn the PTO on then the Hydraulics.**
17. **When Stopping always turn the Hydraulics off then the PTO**
18. When placing hay on the floor chains place it with strings out. Make sure bales are straight and not touching bales on the other floor chain in the middle.
19. Place hay of the same type on the same side. This will allow you to vary the blends of the roughage and create different blends for different classes of livestock with varying nutritional requirements.
20. Cut all strings on the front bale and all but one or two on the back bale (leave enough strings so hay doesn't fall off the back)
21. It is recommended that strings on the back bale are cut before it reaches the knives otherwise they will have to be cut off the knives later.
22. Care should be taken to not allow excessive string build up on the knives or around the bearings.

23. It is recommended that another bale be put on the floor chain to push last part of the last bale through the knives.
24. NEVER ATEMPT TO PUSH HAY THROUGHT THE KNIFES BY HAND
25. If the machine bogs or labors excessively the knives may have ate out a groove in the bale or a bale became lodged or wedged. Try reversing the floor chains until the hay becomes dislodged.
26. NEVER ATTEMPT TO DISLODGE BY HAND WITH THE TRACTOR, MACHINE, OR TRUCK RUNNING.
27. If excessive hay is being kicked back over the top try slowing down the floors, you are probably feeding in the hay faster than it can be processed.
28. The knives and cross/delivery conveyor are not on the scale system. For an accurate weight floors should be shut off and knives allowed to spin free of the bales and cross/delivery conveyor allowed to clean off. (scales move in 5 pound increments and 5 to 20 pound fluctuation considered normal when moved)
29. Your new EZ Ration Processor should be serviced after the first 5 to 10 hours of use (see service instruction pages) then regularly after each 50hrs of use. The knives should be reversed or changed after 250 hours of use or as needed; prior under heavy use.

Operating Instruction

Truck Mounted EZ Ration Processor

1. Truck PTO requirements –113% PTO for trucks with the MT 643 or MT653 Alison Transmission accepting an conventional or mechanically driven EZ Ration Processor – 113% PTO for truck with the MD 3500 and 4500 New World Series Alison Transmissions accepting a Hydraulic driven EZ Ration processor.
2. PTO needs to rotate counter clockwise (when standing at the back of the truck looking at the PTO shaft)
3. PTO turns on the knives and the cross or delivery conveyor and supplies the hydraulic fluid to run the floors. (floors cannot be run unless knives and conveyor are running too on mechanical model)
4. The speed of the floor chains and the auger in the grain attachment are all controlled individually by adjusting the corresponding controls on the control box mounted in the cab of the truck.
5. Electric flow control solenoid valves turn on and change the speed of the floor chains and the grain auger. When they are turned off the floors and the auger will stop even though the knives and cross conveyor will stay on if the PTO is still on.
6. The floors can only be reversed if the PTO is on, the floor on off switch is turned on, the speed dial is turned up and the reverse switch for that floor is turned on. (floors can be reversed individually)

7. It is recommended that you start in the middle with each floor chain speed control dial then back off if less hay is required in the mix and increase the side that more hay is required of in the mix. Note: The numbers on the speed control dial may not directly correlate in ratio and speed depending on differences in trucks, transmissions, RPM, and torque converter RPM lock up.
8. When placing hay on the floor chains place it with strings out. Make sure bales are straight and not touching bales on the other floor chain in the middle.
9. Place roughage of the same type on the same side. This will allow you to vary the blends of the roughage and create different blends for different classes of livestock with varying nutritional requirements.
10. Cut all strings on the front bale and all but one or two on the back bale (leave enough strings so hay doesn't fall off the back)
11. It is recommended that strings on the back bale are cut before it reaches the knives otherwise they will have to be cut off the knives later.
12. Care should be taken to not allow excessive string build up on the knives or around the bearings.
13. It is recommended that another bale be put on the floor chain to push last part of the last bale through the knives.
14. NEVER ATEMPT TO PUSH HAY THROUGH THE KNIVES BY HAND
15. If the machine bogs or labors excessively the knives may have ate out a groove in the bale or a bale became lodged or wedged. Try reversing the floor chains until the hay becomes dislodged.
16. NEVER ATTEMPT TO DISLODGE BY HAND WITH THE TRACTOR, MACHINE, OR TRUCK RUNNING.

17. If excessive hay is being kicked back over the top try slowing down the floors, you are probably feeding in the hay faster than it can be processed.
18. The knives and cross/delivery conveyor are not on the scale system. For an accurate weight floors should be shut off and knives allowed to spin free of the bales and cross/delivery conveyor allowed to clean off. (scales move in 5 pound increments and 5 to 20 pound fluctuation considered normal when moved)
19. Your new EZ Ration Processor should be serviced after the first 5 to 10 hours of use (see service instruction pages) then regularly after each 50hrs of use. The knives should be reversed or changed after 250 hours of use or as needed; prior under heavy use.

Maintenance and Lubrication Instruction

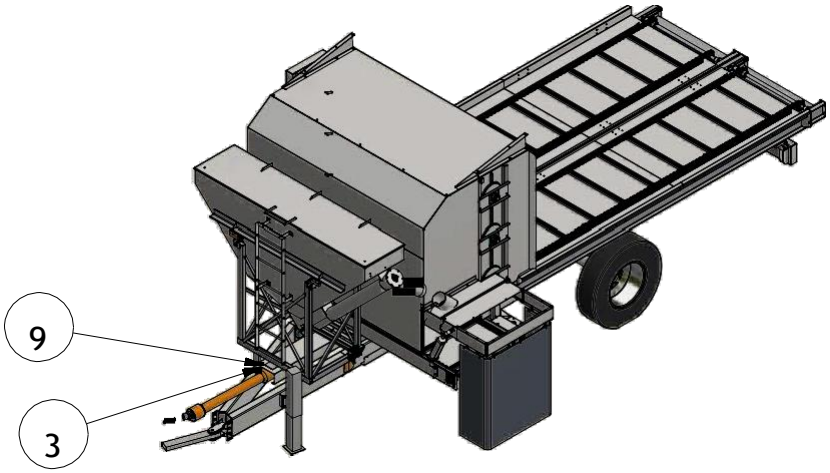
EZ Ration Processor

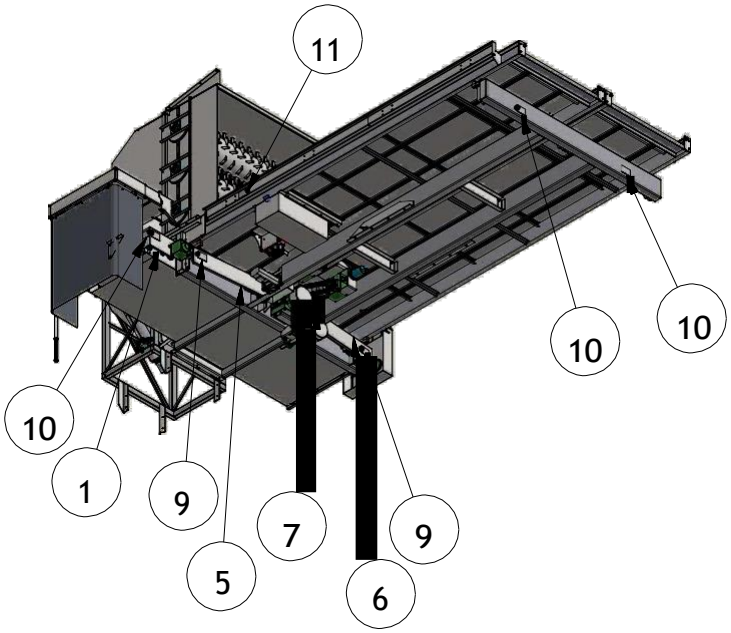
1. Bearings should be greased every 50 hours
2. Check the oil level sight gauge on the hub of the tractor pull models. (daily visual inspection) It requires 80-90wt gear oil.(older models)
3. Superior Gearbox fluid (center T gear box and cross conveyor right angle gear box) should be changed after first 100 hours and then changed at 1000 hrs or every 12 months. Visually check for leaks daily. The Superior gearboxes require EP80-90wt gear oil. Fill approximately half full.
4. Grove Gearboxes (floor chain gear boxes) oil should be changed at 1000 hours or every 12 months. Visually check for leaks daily. The Grove Gearboxes hold approximately 3 ¾ pints or 60oz. Capacities vary somewhat with model and mounting position. Oil should rise to the bottom edge of level hole. Do not over fill. Use Amoco Worm Gear Oil or Cylinder oil #680 – Chevron Cylinder oil #460X or #680X- Exxon Cylesstic TK-460 or TK-680 – Gulf Senate 460 or 680D - Mobil 680-W Super Cylinder – Shell Valvata J460 or J680- or compatible oils. Mobil SHC 643 is compatible with the oil shipped in the gearbox.
5. Check set screws in yokes on drivelines on a regular basis. (visual inspection)
6. Replace or turn sickle section on beaters as needed. (approximately 250 hours of use)

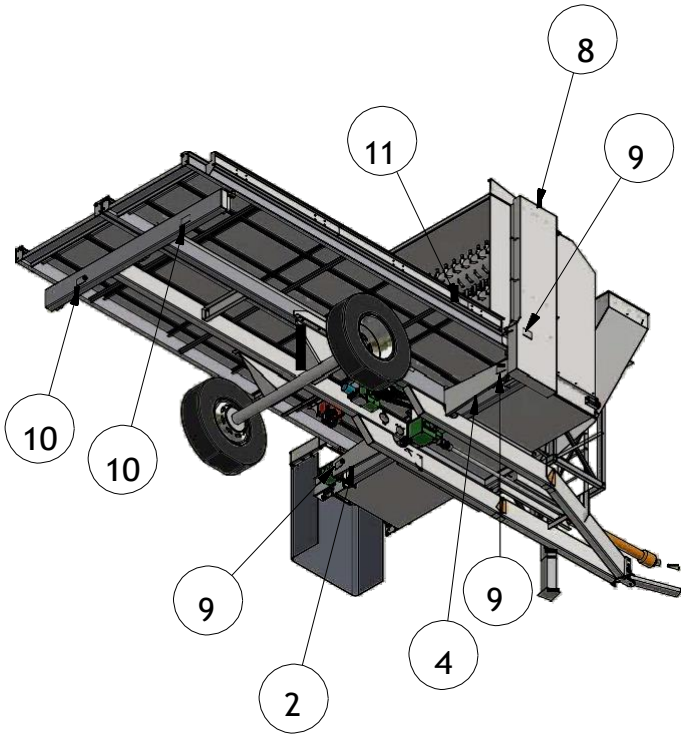
7. Avoid excessive twine build up on the knives. It is recommended to cut them off with a hot electrical iron/knife – Making sure truck or tractor is off and exercise extreme caution and care around sickle section they can cause severe cuts.
8. Regularly check idler sprockets on the knives drive chain. They should only take the slack out of the chain – they function much the same way a torsion axel does with rubber bushing in the middle to supply tension. They should be set at the 10 to 15 degree mark. Adjustments can be made using the supplied wrench on the square body portion supporting the tension arm and by loosening the nut holding the tensioner to the beater housing – retighten the nut to 120 ft-lbs after setting the correct degree of tension. The Idler sprocket should be aligned with the chain and the two sprockets on either end of the chain. (It can be moved up or down the all-thread bolt it is residing on to provide alignment)
9. Regularly check delivery or cross conveyor chain. (visual inspection) It should just touch bottom pan on the underside in the middle.
10. Regularly check floor chains. (visual inspection) They should touch carrier on bottom side 3 to 4 feet from back idler sprocket. Oil or grease chain links if left set out side during off season to allow links to move freely.
11. Regularly check hydraulic fluid level in hydraulic tank. (visual inspection) Add regular hydraulic fluid as needed. In extremely cold climates special hydraulic fluid engineered for extremely cold conditions may be required.

12. To tighten the floor drive chains, adjust gearbox position by loosening the 4 bolts on the top of the gearbox and then adjust gearbox positon utilizing the tensioner bolt. Tighten the 4 bolts back down after making adjustment.

ITEM	RCMR PN	DESCRIPTION	PART NUMBER
1	487/22-067	Shield over discharge conveyor chain and sprockets	573432-404
2	509/22-089	Shield over discharge conveyor driveline (tractor pull)	573433-543
3	470/22-050	Shield over PTO driveline	573433-544
4	510/22-090	Shield over driveline to knife drums (tractor pull)	573433-545
5	456/22-036	Shield over discharge conveyor driveline	573436-557
6	457/22-037	Shield over driveline to knife drums	573436-558
7a	462/22-042	Drive Belt Cover outside	573436-563
7b	463/22-043	Drive Belt Cover inside	573436-564
8	432/22-012	Knife Hood sprocket drive door/guard	3rb-9109
9	416/21-038	Sticker Guard	523003
10	418/21-030	Sticker Moving	523004
11	417/21-029	Sticker Rotating	523005







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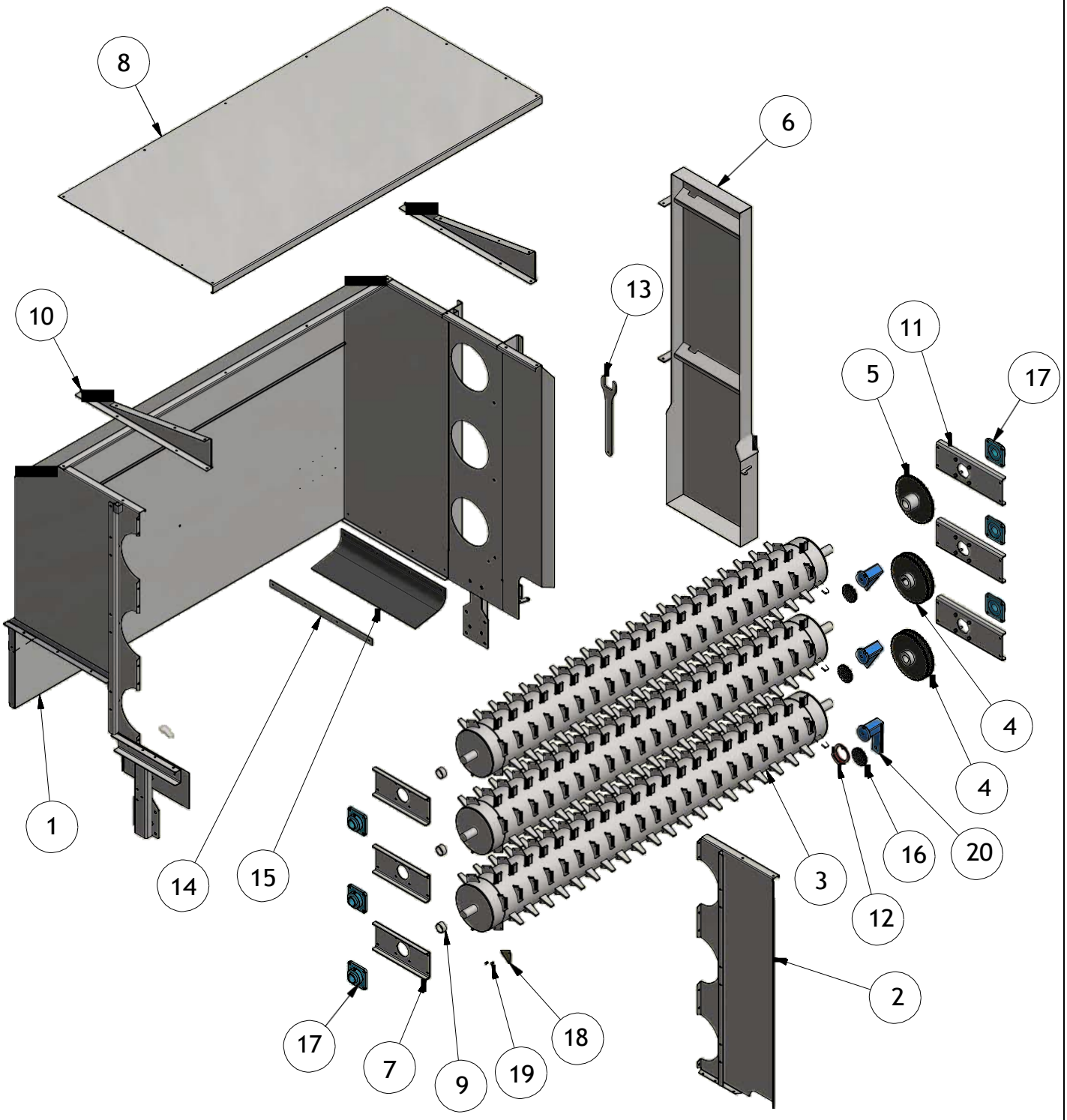
Safety Sticker and Guard Location



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TITLE
Rotor Hood

DWG NO 3rb-9100	SHT 1 OF 2	DRAWN Paul	Page 17

Rotor Hood				
ITEM	QTY	RCMR-PN	DESCRIPT	V-PN
1	1	429/22-009	Hood	3rb-9101
2	1	430/22-010	Hood Side	3rb-9102
3	3	431/22-011	Knife Drum	3rb-9103
4	2	79/01-093	Sprocket 80-36 Double (for bottom 2 knife drums)	DS80C36 x 2 1/2kwy
5	1	80/01-095	Sprocket 80-36 Single (for top knife drum)	80C36 x 2 1/2 kwy
6	1	432/22-012	Knife Hood sprocket drive door/guard	3rb-9109
7	3	433/22-013	Bearing Mount	3rb-9125
8	1	434/22-014	Knife Hood Top Plate	3rb-9126
9	3	435/22-015	Spacer	3rb-9132
10	2	436/22-016	Knife hood extension right and left sides	3rb-9146 R/L
11	3	437/22-017	Bearing Mount Drive Side	3rb-9147
12	1	512/22-092	Tensioner Lock	3rb-9150
13	1	438/22-018	Wrench	573431-348
14	1	439/22-019	Bar	573431-355
15	1	440/22-020	Flap	573431-356
16	3	05/01-005	Sprocket tension 3/4 bore Martin	80BB12H
17	6	01/01-002	Bearing 2" Bore	UCF210-32
18	252	413/21-013	Section	NH26622
19	504	414/21-014	Bolt Nut Sickle Section	NH86507777DS
20	3	25/01-025	Love Joy Tensioner	SE38

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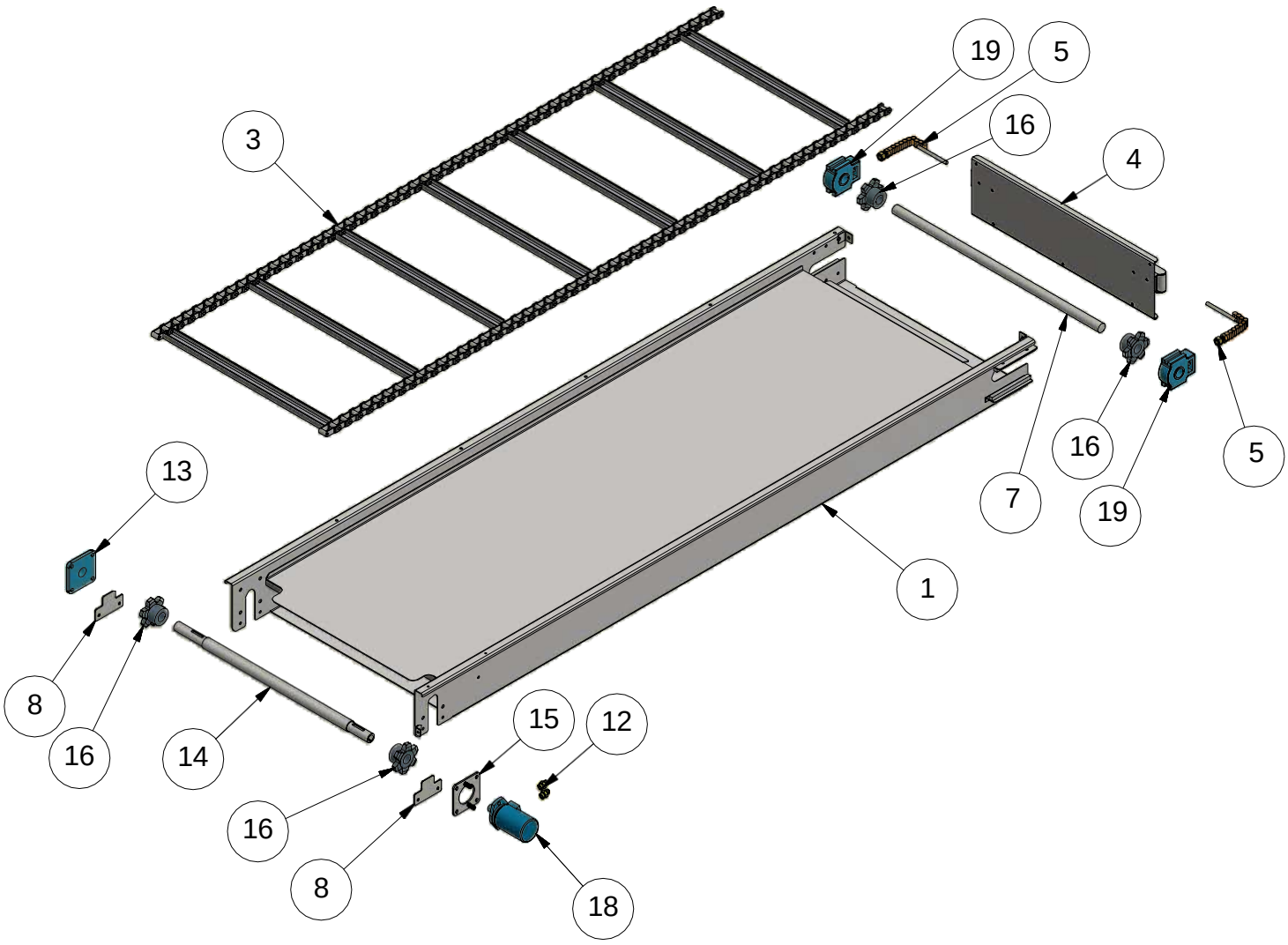
TITLE Rotor Hood

DWG NO 3rb-9100 | SHT 2 OF 2 | DRAWN Paul



Hydraulic Drive

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TITLE
Cross Conveyor

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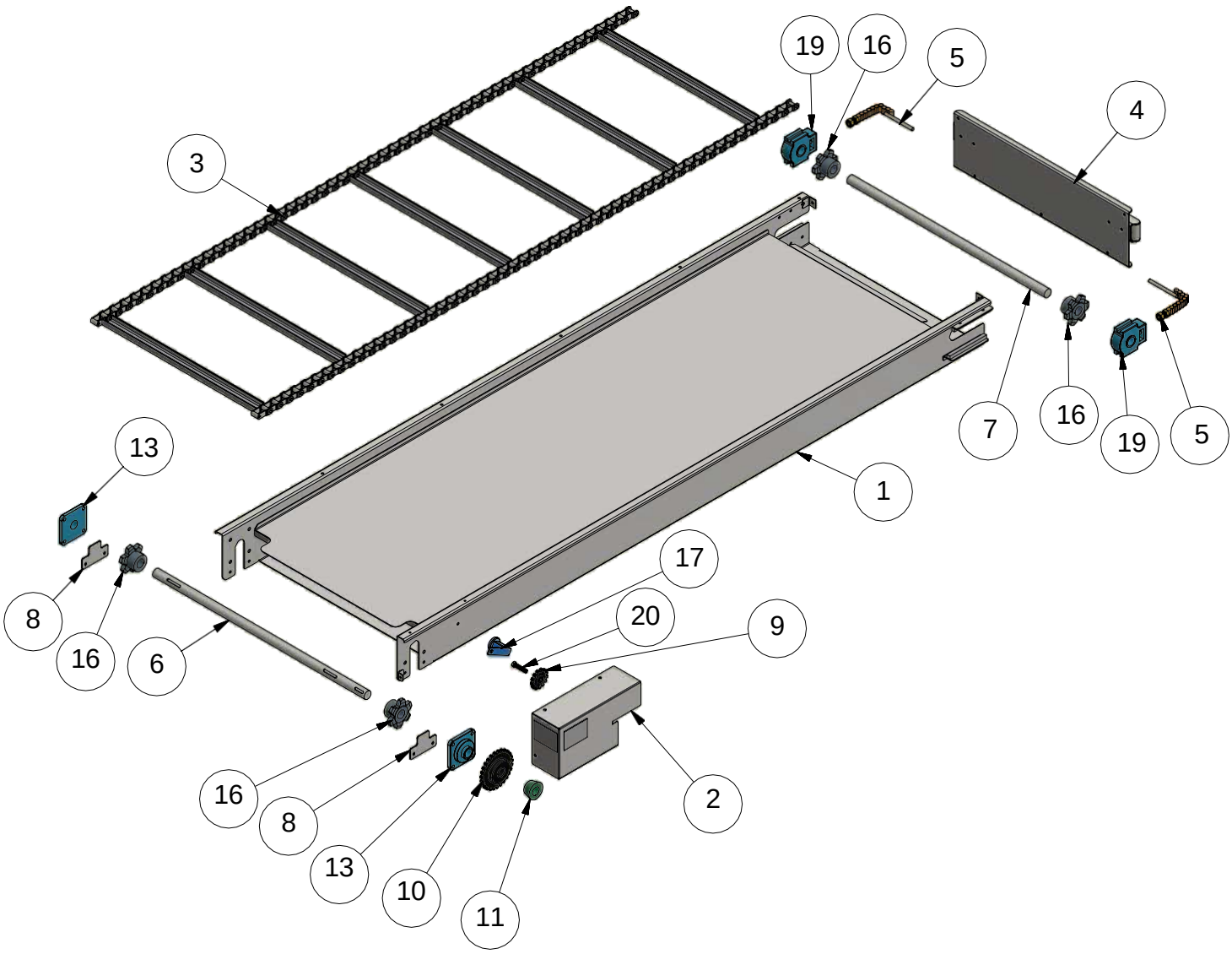

Mechanical Drive

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TITLE
Cross Conveyor

DWG NO 573432-401	SHT 2 OF 3	DRAWN Paul	Page 20

Cross Conveyor				
ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	486/22-066	Frame	573432-402
2	1	487/22-067	Shield over discharge conveyor chain and sprockets	573432-404
3	1	415/21-017	Conveyor Chain	573432-406
4	1	488/22-068	End Plate	573432-407
5	2	489/22-069	Tensioner	573432-408
6	1	490/22-070	Head shaft discharge conveyor	573432-421
7	1	491/22-071	Tail shaft discharge conveyor	573432-422
8	2	492/22-072	Shield	573432-441
9	1	83/01-097	Idler sprocket 1/2 bore	60BB13H X.5
10	1	27/01-027	Sprocket driven	60BTB27
11	1	24/01-024	Taper Lock Bushing 1 1/2 bore 3/8kwy	2012 Martin
12	2	325/09-032	JIC to O-Ring Straight	6400_08_10
13	2	22/01-022	1 1/2 B Flange Bearing	UCFX08-24
14	1	493/22-073	RD-hyd-head-shaft-HY04 (round keyed/newer are splined)	573445-410
15	1	494/22-074	Bracket RD_hyd_head_shaft	HY06
16	4	01/01-001	Sprocket 6 tooth 1 1/2 bore	667X 6t 1 1/2 B 3/8 kwy
17	1	78/01-092	Love Joy Tensioner	SE18
18	1	126/02-001	11.9cipr Hydraulic Motor	TB0195AS100AAAA
19	2	29/01-029	Bearing Tail Shaft 1 1/2 bore	UCT208-24
20	1	540/23-020	Bolt 1/2-13 X 2 1/2	hhcs_5_13 x 2_5

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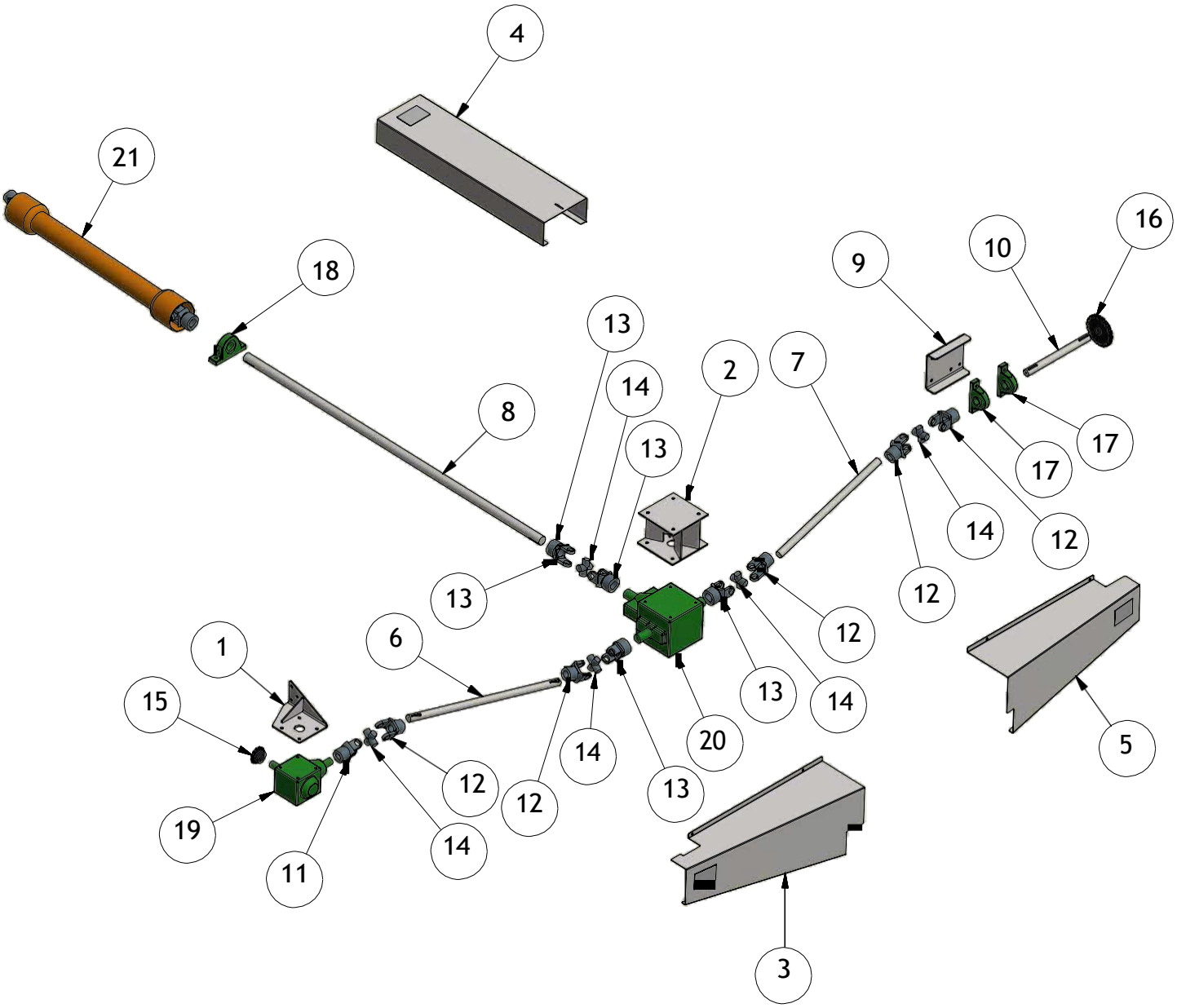
TITLE Cross Conveyor

DWG NO 573432-401 | SHT 3 OF 3 | DRAWN Paul



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TITLE
Trailer Drive System

DWG NO Trailer Drive	SHT 1 OF 2	DRAWN Paul	Page22

Trailer Drive Mechanical				
ITEM	QT	RCMR-PN	DESCRIP	PART NUMBER
1	1	453/22-033	Bracket for cross conveyor gearbox	573431-328
2	1	469/22-049	Bracket above center gearbox	573433-524
3	1	509/22-089	Shield over discharge conveyor driveline (tractor pull)	573433-543
4	1	470/22-050	Shield over PTO driveline	573433-544
5	1	510/22-090	Shield over driveline to knife drums (tractor pull)	573433-545
6	1	471/22-051	Shaft to cross conveyor gearbox	573433-546
7	1	461/22-041	Shaft from center gearbox to knife drum drive(trl)	573433-547
8	1	472/22-052	Shaft	573433-548
9	1	464/22-044	Bracket	573438-123
10	1	465/22-045	Jack Shaft with tapped hole in the end	573440-124
11	2	10/01-010	Yoke 1 1/4 b kwy Neapco	184-3520-35N
12	7	09/01-009	Yoke 1 3/8 b 5/16 kwy Neapco	184-3522-35N
13	5	30/01-030	1 3/4 yoke 3/8 kwy	184-3528-35N
14	7	11/01-011	Cross Neapco (u-joint)	302-3500-35N
15	1	14/01-014	Sprocket 1 1/4 bore (drive)	60BS12
16	1	82/01-096	18tooth 1 3/8bored to size 5/16 kwy 80 chain sprocket	H80BG18F1 3/8
17	2	40/01-045	1 3/8 bore Pillow Block Bearing	UCP207-22
18	1	20/01-020	1 3/4 bore Pillow Block Bearing	UCP209-28
19	1	13/01-013	Superior Gearbox 2:1 1 1/4 shaft	R500-9GGB-AO213
20	1	08/01-008	Superior Center Gearbox 1.5:1 1 3/4 sft	651 ACF-158
21	1	21/01-021	PTO Driveline 60"	335-(60or48)-22-35N

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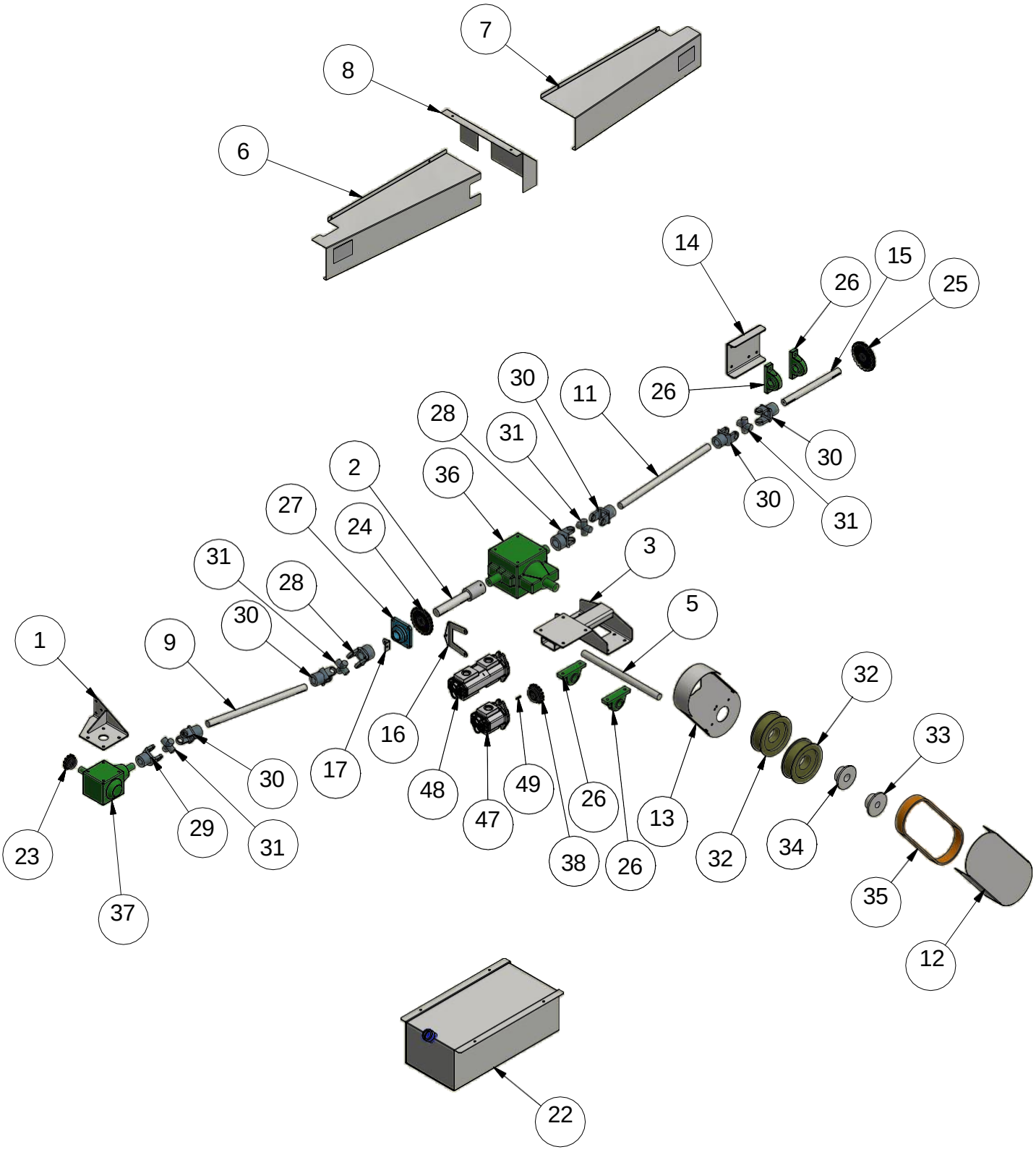
TITLE
Trailer Drive System

DWG NO Trailer Drive	SHT 2 OF 2	DRAWN Paul	Page 23



Serial Number 1264 and Lower

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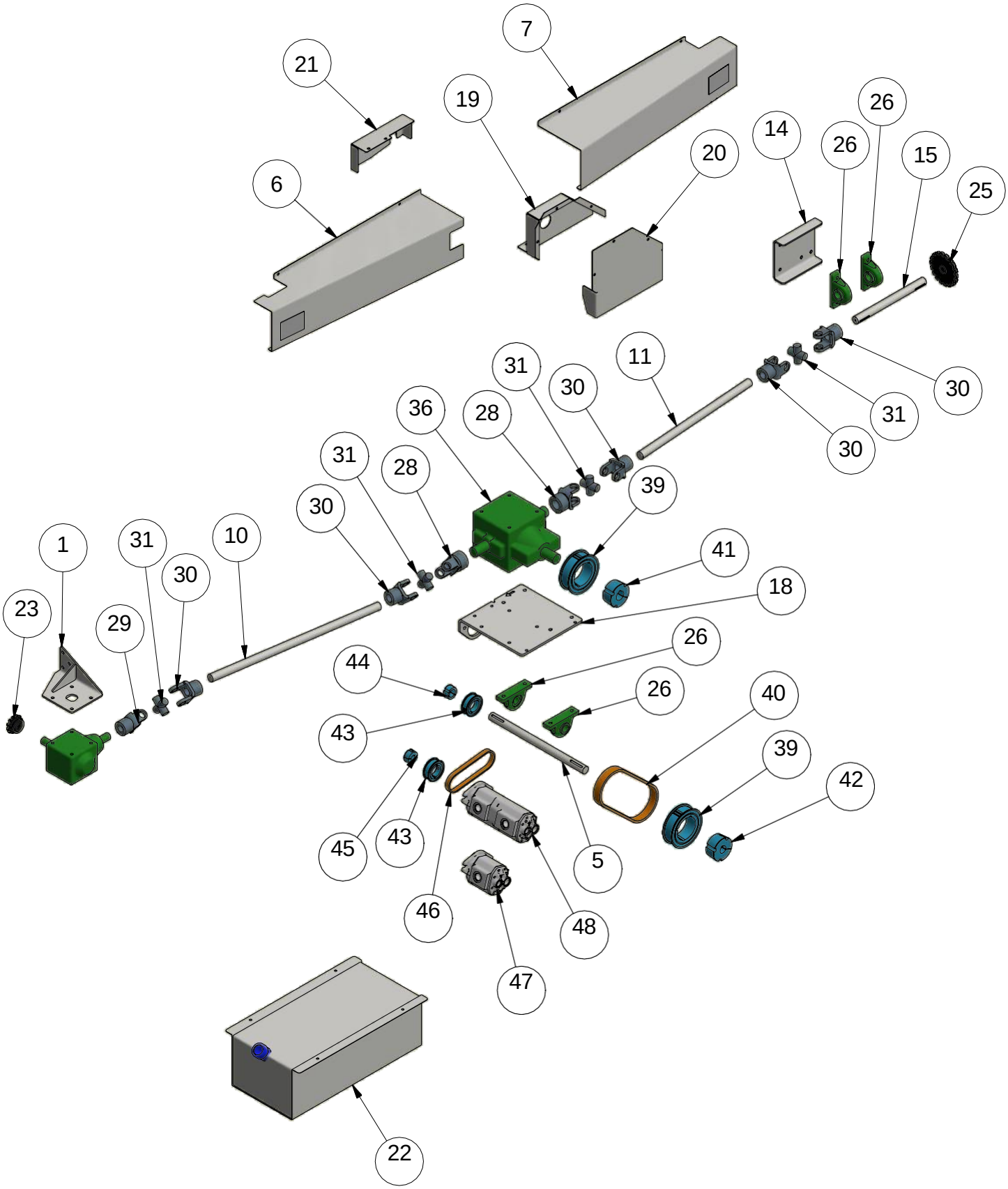
TITLE
Truck Drive Mechanical

DWG NO	SHT	DRAWN	REV
Truck Drive Mechanical	1 OF 3	Paul	4a



Serial Number 1265 and Above

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		DWG NO Truck Drive Mechanical	SHT 2 OF 3	DRAWN Paul	REV 4a

Parts List				
ITEM	QTY	RCMR-PN	DESC	PART NUMBER
1	1	453/22-033	Bracket for cross conveyor gearbox	573431-328
2	1	396/20-065	Shaft and coupler 1 ¾ from center gearbox	573436-547
3	1	373/20-063	PTO Driveline to Gearbox bracket (truck)	573436-550
4 n/s	2	506/22-086	Split shaft for torque limiter PTO driveline to pulley	573436-551
5	1	455/22-035	1 3/8" x 22"shaft -trk only -PTO driveline to Pulley	573436-551_01
6	1	456/22-036	Shield over discharge conveyor driveline	573436-557
7	1	457/22-037	Shield over driveline to knife drums	573436-558
8	1	459/22-039	Shield over chain drive for hydraulic pump	573436-559
9	1	460/22-040	Shaft from center Gearbox to conveyor old style	573436-561
10	1	460/22-040	Shaft from center Gearbox to conveyor new style	573436-561_B
11	1	458/22-038	Shaft from center gearbox to knife drum drive(trk)	573436-562
12	1	462/22-042	Drive Belt Cover outside	573436-563
13	1	463/22-043	Drive Belt Cover inside	573436-564
14	1	464/22-044	Bracket for 2 pillow block bearings for jack shaft	573438-123
15	1	465/22-045	Jack Shaft with tapped hole in end	573440-124
16	1	466/22-046	Bracket to hold hydraulic pump tight	573440-145
17		Not Used	xxxxxxx	xxxxxx
18	1	515/22-095	Plate /bracket on bottom of center gearbox	573436-570
19	1	516/22-096	PTO dr to Gr Bx short belt cover inside	573436-571
20	1	517/22-097	PTO dr to Gr Bx short belt cover outside	573436-572
21	1	513/22-093	Cover for Belt Drive to Hyd Pump	573436-573
22	1	468/22-048	Hydraulic tank (mechanical drive)	res3-711
23	1	14/01-014	Sprocket 1 1/4 bore 12tooth (drive)	60BS12 1 ¼ bore
24	1	44/01-055	Sprocket 1 3/4 Bore 24tooth 3/8kwy	60BS24 1 ¾ bore
25	1	82/01-096	Sprocket 1 3/8bored to size18tooth 5/16 kwy	80BS18 1 3/8 bore
26	4	40/01-045	1 3/8 bore Pillow Block Bearing	UCP207-22
27	1	46/01-057	Flange Bearing	FC4-35-1 ¾
28	2	30/01-030	1 3/4 Yoke 3/8 kwy	184-3528-35N
29	1	10/01-010	Yoke 1 1/4 b 1/4kwy Neapco	184-3520-35N
30	5	09/01-009	Yoke 1 3/8 b 5/16 kwy Neapco	184-3522-35N
31	4	11/01-011	Cross Neapco (u-joint)	302-3500-35N
32	2	35/01-041	Drive Pully	P48-14M-55-E
33	1	37/01-042	Bushing (for P48-14M-55-E pulley)	EX 1 3/8 Bore
34	1	38/01-043	Bushing(for P48-14M-55-E pulley)	EX 1 3/4 Bore
35	1	57/01-066	Gates Poly Chain GT Carbon Belt	14MGT-1400-37
36	1	08/01-008	Superior Center Gearbox 1.5:1 & 1 3/4 shafts	651 ACF-158
37	1	13/01-013	Superior Right Angle Gearbox 2:1 & 1 1/4 shafts	R500-9GGB-AO213
38	1	43/01-054	Sprocket 7/8 Bore 16tooth (needs stepkey)	60BS16
39	2	116/01-200	Belt Sprocket 14P 38T 37W	14MX-38-37
40	1	118/01-202	Timing Belt 994L 37W 71T	14MGT-994-37
41	1	120/01-204	Bushing taper lock 1 ¾ B 3/8kwy	3020 1 3/4
42	1	121/01-205	Bushing taper lock 1 3/8 B 5/16kwy	3020 1 3/8
43	2	117/01-201	Belt Sprocket 8P 34T 21W	8MX-34-21
44	1	122/01-206	Bushing taper lock 1 3/8B 5/16kwy	1610 1 3/8
45	1	123/01-207	Bushing taper lock 7/8B1/4kwy(note key size)	1610 7/8
46	1	119/01-203	Timing belt 640L 21W 80T	8MGT-640-21
47	1	217/02-099	Honor Single Pump (No Grain Attachment)	#3GB6U360R
48	1	773/02-115	Geartek Double Pump (Grain Attachment)	GTK C20085R-5B-AMAAJ
49	1	124/01-208	Step Key 1/4 to 3/16	Step1/4 to 3/16

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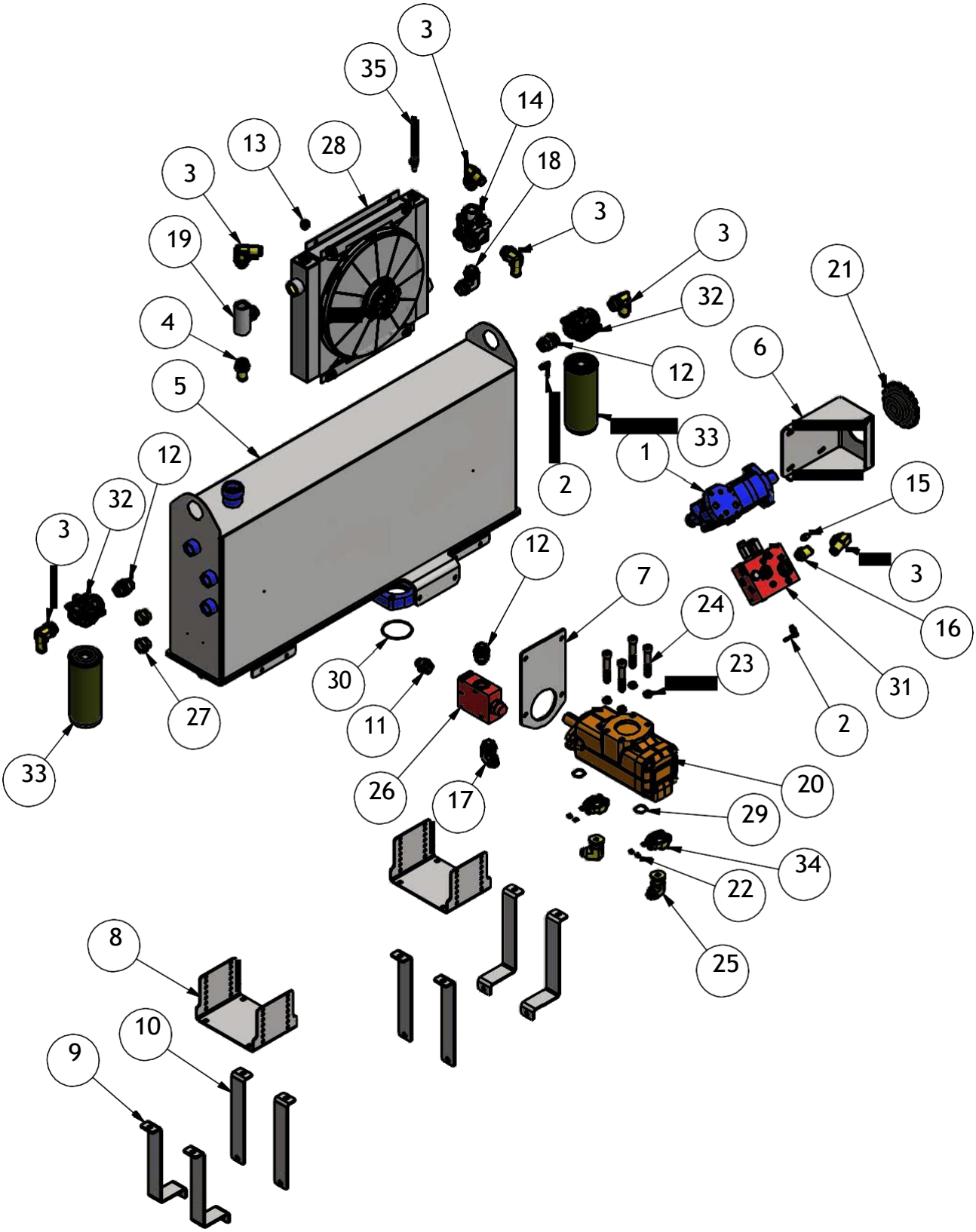
TITLE
Truck Drive Mechanical

DWG NO	SHT	DRAWN	REV
Truck Drive Mechanical	3 OF 3	Paul	4a



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TITLE
Truck Drive System (Hydraulic)

DWG NO 573445-800	SHT 1 OF 2	DRAWN Paul	Page 26

Hydraulic Truck Drive				
ITEM	QTY	RCMR-PN	DESCRIPTIO N	PART NUMBER
1	1	279/07-017	Hydraulic Motor 2000 series 2 speed	193-0389-001
2	2	298/09-005	Beaded Hose to O-Ring Elbow 90 degree	4601-04-04
3	6	300/09-007	Beaded Hose to O-Ring Elbow 90 degree	4601-16-16
4	3	301/09-008	Beaded Hose to O-Ring Straight	4604-16-16
5	1	473/22-053	Hydraulic Reservoir (hydraulic drive)	573445-801
6	1	474/22-054	Hydraulic Motor Mounting Bracket for Knife Drive	573445-802
7	1	475/22-055	Torque Arm Hydraulic Pump Mounting Bracket	573445-824
8	2	476/22-056	Mount to truck frame for Hydraulic Reservoir	573445-826
9	4	477/22-057	Hold Down Angle for Mount for Hydraulic Reservoir	573445-827
10	4	478/22-058	Hold Down Straight for Mount for Hydraulic Res	573445-828
11	1	326/09-033	JIC to O-Ring adapter	6400-12-16
12	3	307/09-014	O-Ring Adjustable Union	6403-NWO-16-16
13	2	309/09-016	O-Ring Hex Plug	6408-08
14	1	202/02-085	Thermal transfer by pass valve 85psi	65654- 85 -100degree
15	1	317/09-024	JIC to O-Ring Elbow 90 degrees	6801-04-04
16	1	321/09-028	JIC to O-Ring Elbow 90 degrees	6801-12-12
17	1	322/09-029	JIC to O-Ring Elbow 90 degrees	6801-12-16
18	1	314/09-021	O-Ring Adjustable Union Elbow 90 degrees	6807-16-16
19	1	327/09-034	O-Ring Branch Tee	6832-16-16-16
20X	1	192/02-075	Vicker double pump (replaced with 211/02-093rs)	711-0199-032
20	1	211/02-093rs	Veljan dbl pump 1 1/4 rnd shaft (repls192/02-075)	VT6CCMW-B28-B17-WR00-D1-00
20	1	210/02-093	Veljan dbl pump splined shaft (repls192/02-075)	VT6CCMW-B28-B17-5R00-C1-00
21	1	81/01-095	16tooth 1 1/4 b 5/16 kwy bored to size Sprocket	H80B16 x 1 ¼
22	8	527/23-007	Lock washer	90073A231
23	4	528/23-008	Lock washer	90073A240
24	4	530/23-010	SCHS bolt	91251A808
25	2	328/09-035	JIC to Flange Elbow 90 Code 61	FG6890 - 12 - 16
26	1	283/07-021	Hydraforce priority flow regulator	FR16-30F-16T-N/22.00
27	2	193/02-076	1 5/16-12 SAE sight window	LSW-A16
28	1	201/02-084	Thermal transfer cooler	MA-32-2-4A
29	2	531/23-011	O-ring	O-ring-219
30	1	532/23-012	O-ring	O-ring-237
31	1	281/07-019	Manifold Two Speed Hy Knife Motor	P16483-1
32	2	194/02-077	Filler head assembly hmk04 duramax	P166088
33	2	200/02-083	Filter	Don P164378
34	2	329/09-036	Split Flange kit code 61	SFK-16
35	1	203/02-086	Temp Switch SPST NO 3/4 SAE O-Ring(-8)WIRE LEADS	NAS TT-E5A-120R-WL

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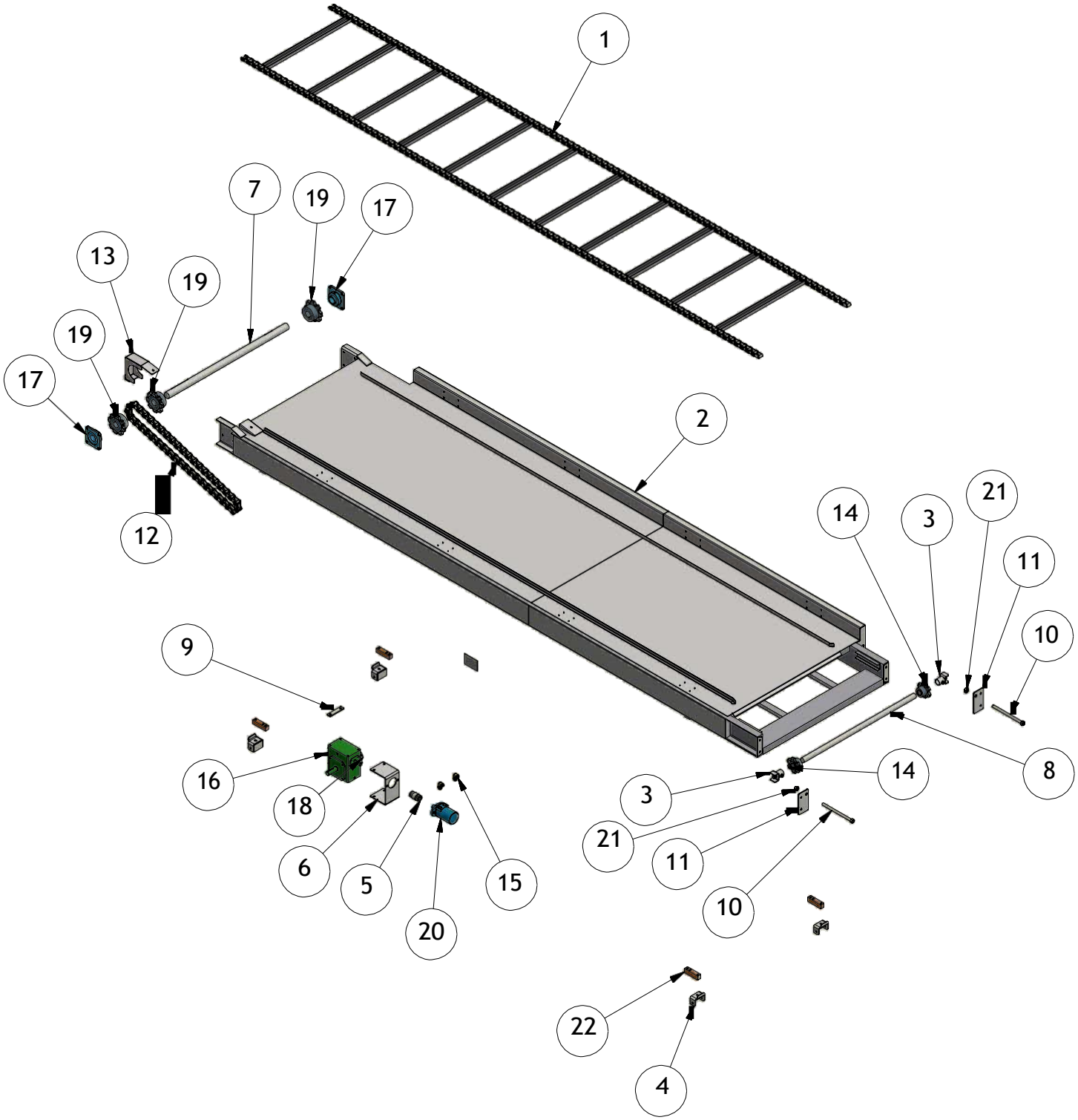
TITLE
Truck Drive System (Hydraulic)

DWG NO 573445-800	SHT 2 OF 2	DRAWN Paul	Page 27



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TITLE
Floor 4 Bale Right Side

DWG NO 573439-202	SHT 1 OF 2	DRAWN Paul	Page 28

Floor 4 Bale Right				
ITEM	QTY	RCMR-PM	DESCRIPTION	PART NUMBER
1	1	406/21-033	Floor Chain 4-Bale (6-Bale RCMR#419/21-0336b)	573439-206
2	1	442/22-022	Floor Weldment Right	573439-210
3	2	443/22-023	Bracket for floor chain tensioner	573439-213
4	4	445/22-025	Bracket weigh bars pivot on	573439-218
5	1	526/23-006	Shaft Coupler floor drive hyd motor to gearbox	573439-219
6	1	446/22-026	Bracket- Floor Motor Gearbox Mount	573439-236
7	1	447/22-027	Floor Chain Head Shaft	573439-237
8	1	448/22-028	Floor Chain Tail Shaft	573439-239
9	1	449/22-029	Spacer for front weigh bar brackets	573439-242
10	2	539/23-019	Adjuster Bolt for floor chain tensioner	573439-251
11	2	451/22-031	Plate for floor chain tensioner	573439-258
12	1	420/21-034	Floor Chain Head Shaft Drive Chain 667X (right side)	573439-283
13	1	452/22-032	Shield over sprocket on head shaft	573439-284
14	2	86/01-087	Bronze Bushed Sprocket	667X B6 1 1/2 bbs
15	2	319/09-026	JIC to O-Ring Elbow 90	6801-08-10
16	1	42/01-053	Grove Gearbox 1 1/4- 1/4kwy	B830-60-L
17	2	02/01-002	Flange Bearing 4 bolt 2in bore	UCF210-32
18	1	47/01-058	667X Sprocket steel (cast = RCMR# 747/01-058c)	667X 6T 1 1/4B 1/4kwy
19	3	41/01-050	Floor Chain Head Shaft Driven Sprocket	667X 8T 2B 1/2kwy
20	1	126/02-001	11.9cipr Parker Hydraulic Motor (floor chain drive)	TB0195AS100AAAA
21	4	538/23-018	Nut	hex nut 75-10
22	4	231/06-002	SBS 5K LB (SE) Weigh Bar	403477
22	4	505/22-085	Dummy Weigh Bar	573439-261

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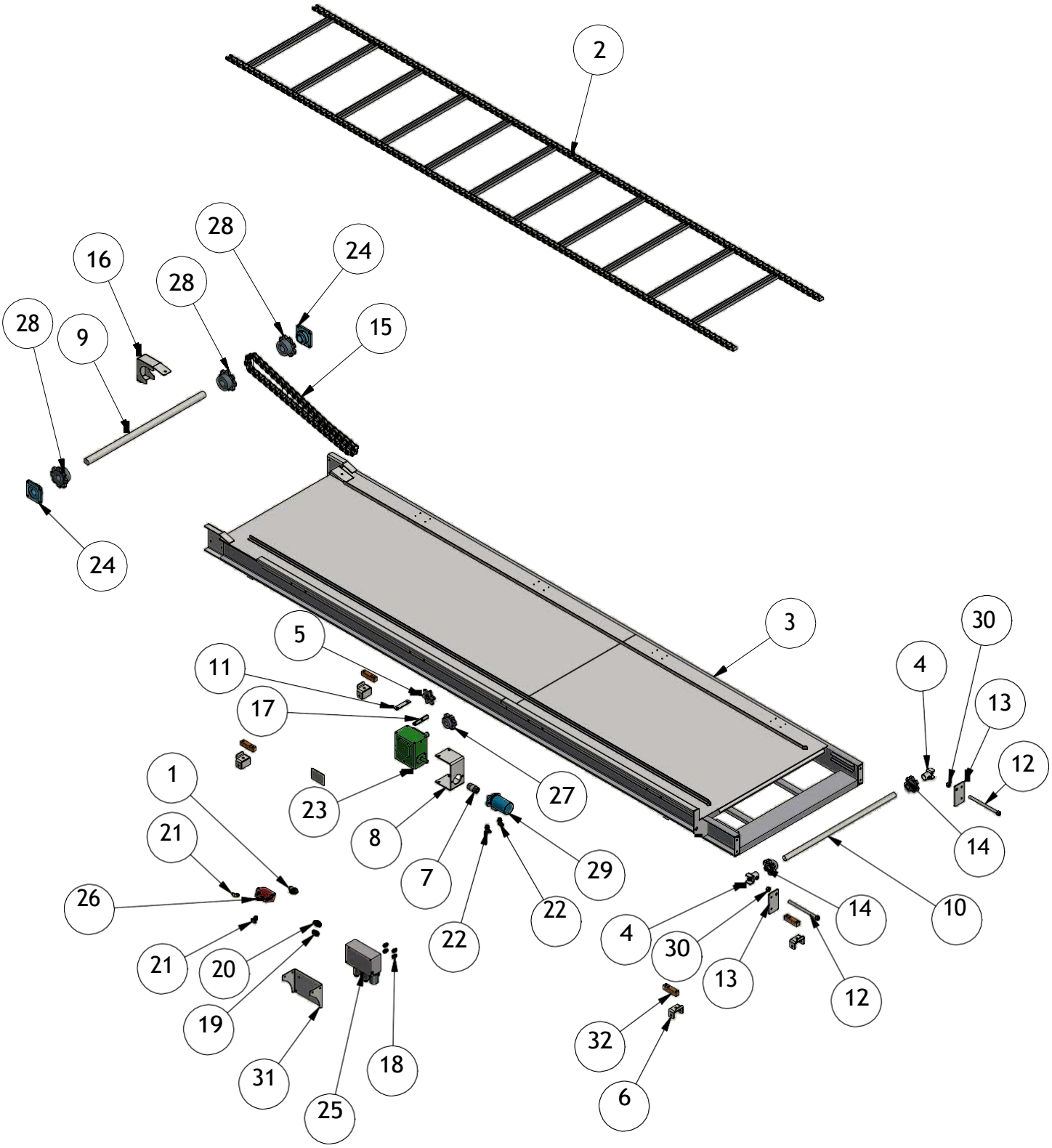
TITLE
Floor 4 Bale Right Side

DWG NO 573439-202 | SHT 2 OF 2 | DRAWN Paul



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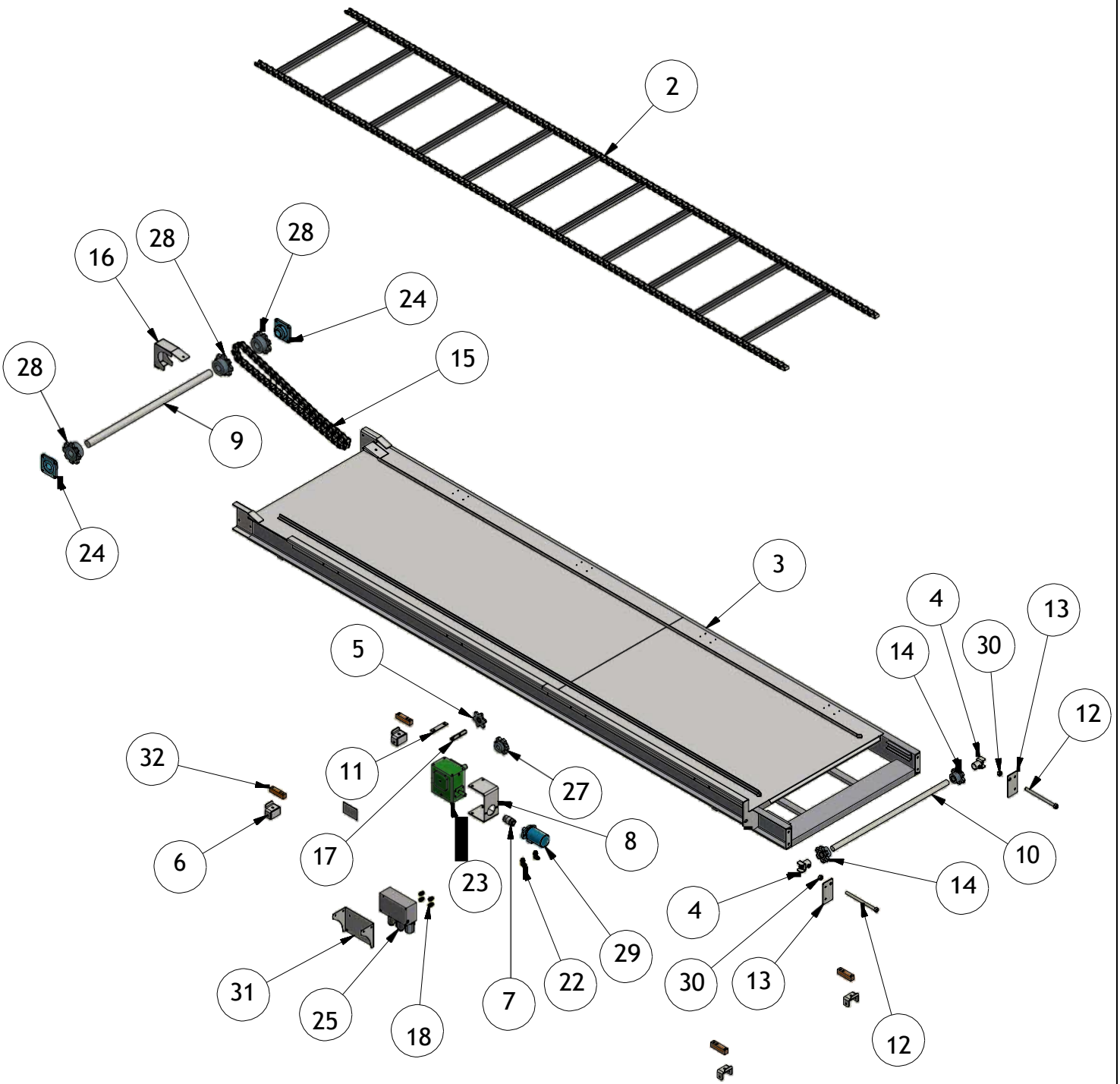
TITLE

Floor 4 Bale Left Side — Hydraulic

DWG NO 573439-201	SHT 1 OF 3	DRAWN Paul	Page 30



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TITLE
Floor 4 Bale Left Side Mechanical

DWG NO 573439-201	SHT 2 OF 3	DRAWN Paul	Page 31

Parts List				
ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	2	299/09-006	Beaded Hose to O-Ring Elbow 90	4601-16-12
2	1	406/21-033	4-Bale Floor Chain (6-Bale RCMR#419/21-0336b)	573439-206
3	1	441/22-021	Floor Weldment Left	573439-209
4	2	443/22-023	Bracket for floor chain tensioner	573439-213
5	1	444/22-024	Idle Sprocket	573439-217
6	4	445/22-025	Bracket weigh bars pivot on	573439-218
7	1	526/23-006	Shaft Coupler Hyd motor to gearbox	573439-219
8	1	446/22-026	Bracket- Floor Motor Gearbox Mount	573439-236
9	1	447/22-027	Floor Chain Head Shaft	573439-237
10	1	448/22-028	Floor Chain Tail Shaft	573439-239
11	1	449/22-029	Spacer for front weigh bar brackets	573439-242
12	2	539/23-019	Adjuster Bolt for floor chain tensioner	573439-251
13	2	451/22-031	Plate for floor chain tensioner	573439-258
14	2	86/01-087	Bronzed bushed sprocket	667X B6 1 1/2 bbs
15	1	467/22-047	Floor chain head shaft drive chain 667X (left side)	573439-282
16	1	452/22-032	Shield over sprocket on head shaft	573439-284
17	1	514/22-094	Bracket for idle/tension sprocket (only on Left side)	573439-285
18	4	303/09-010	JIC to O-Ring straight	6400-08-08
19	1	304/09-011	JIC to O-Ring straight	6400-12-12
20	1	306/09-013	O-Ring Adjustable Union	6403-NOW-12-12
21	2	313/09-020	JIC to O-Ring Elbow 90	6801-08-08
22	2	319/09-026	JIC to O-Ring Elbow 90	6801-08-10
23	1	42/01-053	Grove Gearbox 1 1/4- 1/4kwy	B830-60-L
24	2	02/01-002	Flange Bearing 4 bolt 2in bore	UCF210-32
25	1	273/07-011	Floor Manifold	P15619-2
26	1	282/07-020	Priority flow 8gpm and relief for conveyor	P16532-2
27	1	47/01-058	667X Sprocket steel (cast = RCMR# 747/01-058c)	667X 6T 1 1/4B 1/4kwy
28	3	41/01-050	Floor Chain Head Shaft Driven Sprocket	667X 8T 2B 1/2kwy
29	1	126/02-001	11.9cipr Parker Hydraulic Motor (floor chain drive)	TB0195AS100AAAA
30	4	538/23-018	Nut	hex nut 75-10
31	1	508/22-088	Bracket for Floor Manifold	res3-717
32	4	231/06-002	SBS 5K LB (SE) Weigh Bar	403477
32	4	505/22-085	Dummy Weigh Bar	573439-261

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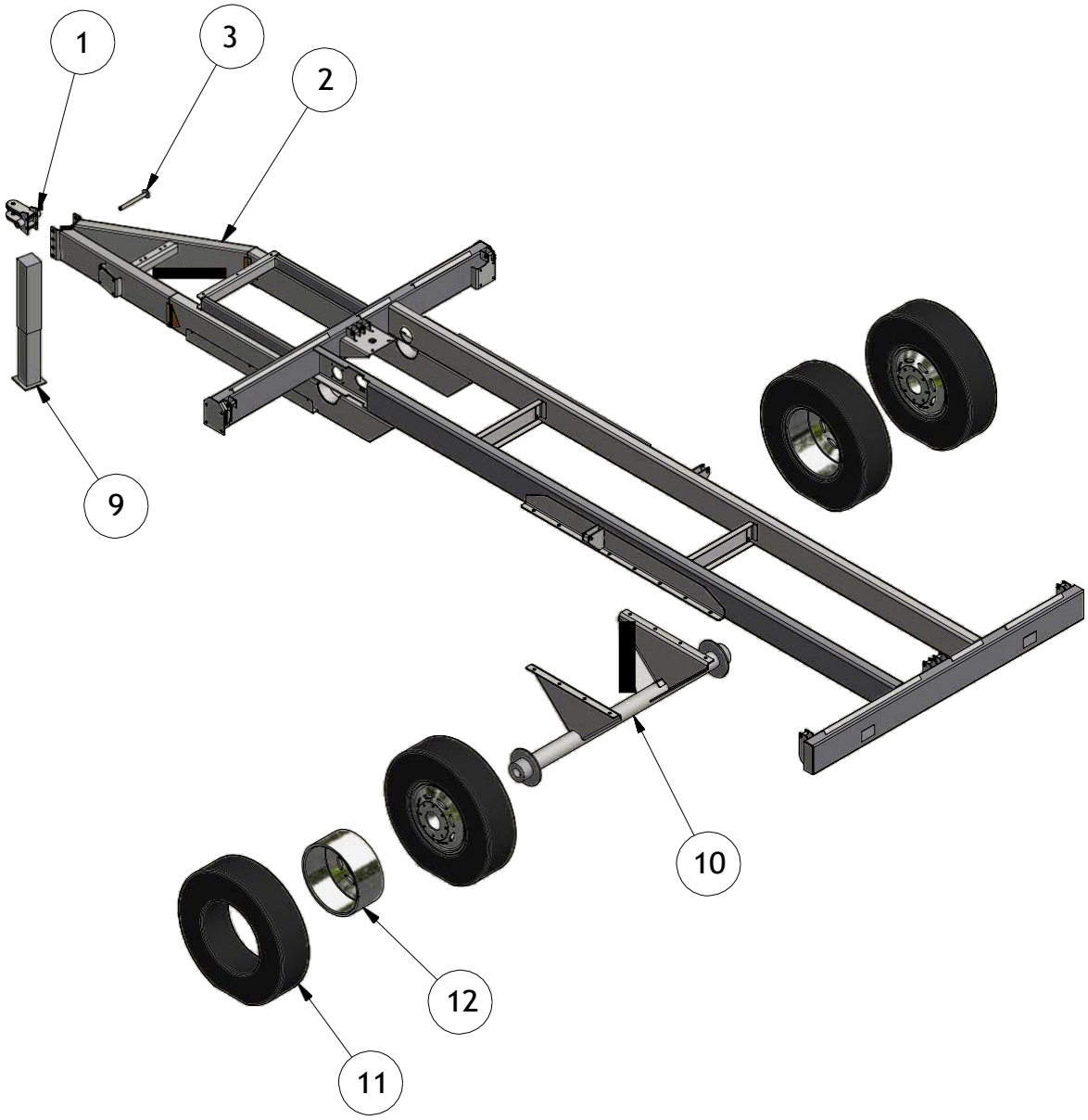
TITLE
Floor 4 Bale Left Side

DWG NO 573439-201	SHT 3 OF 3	DRAWN Paul	Page 32



Single Dual

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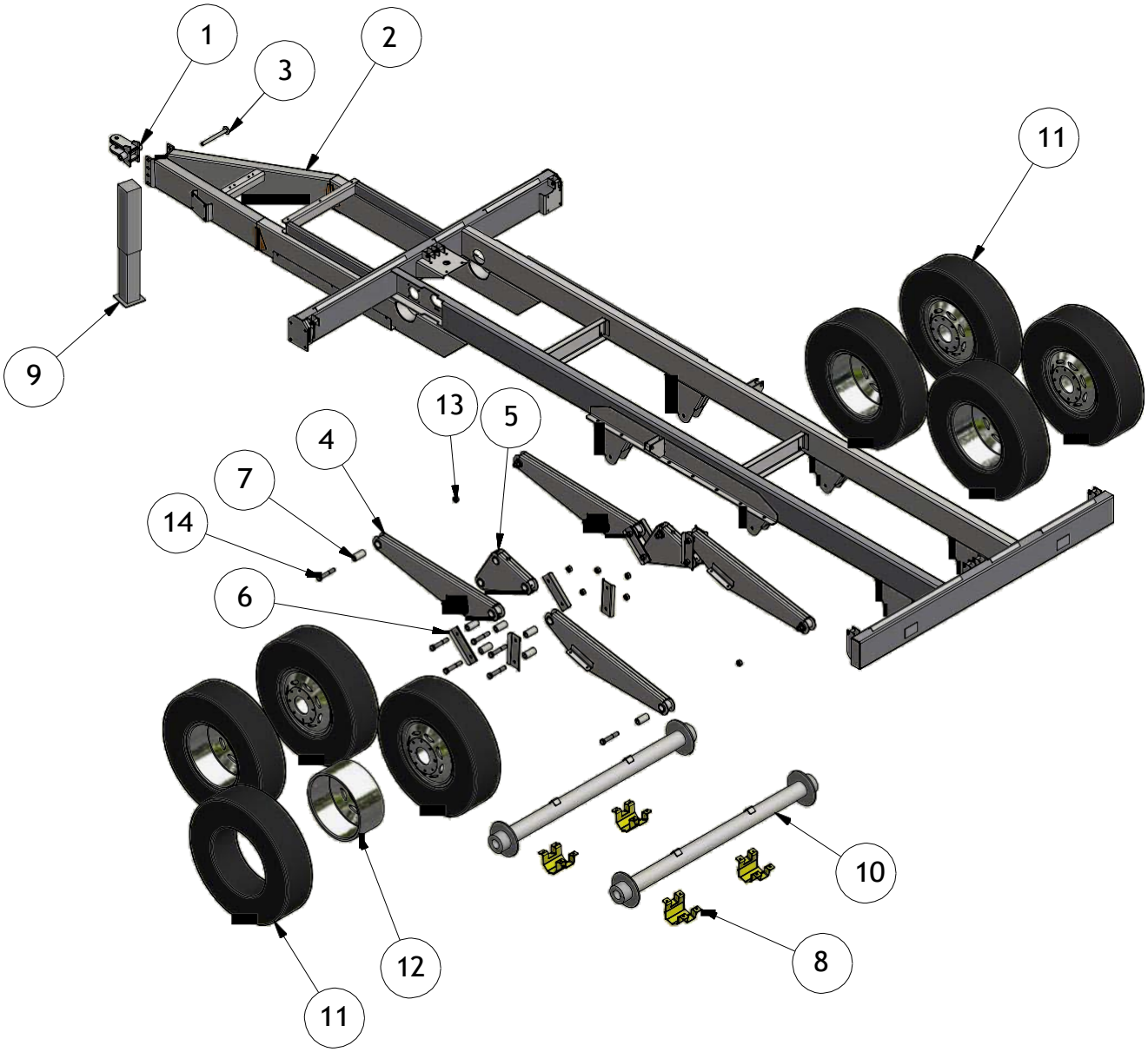
TITLE
Frame Trailer 6 Bale

DWG NO 573440-185	SHT 1 OF 3	DRAWN Paul	Page 33



Tandem Dual

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		DWG NO 573440-185	SHT 2 OF 3	DRAWN Paul	Page 34

Parts List				
ITEM	QTY	RCMR-PN	DESCRIPTI	PART NUMBER
1	1	421/22-001	Hitch	573433-528
2	1	423/22-003	Tractor Pull Trailer Frame	573433-534
3	1	422/22-002	Pin to hold the adjustable hitch in place	573433-559
4	4	424/22-004	Beam for tandem axle suspension system	573433-565
5	4	425/22-005	Equalizer for tandem axle suspension system	573433-566
6	8	426/22-006	Link Plate for tandem axle suspension system	573433-567
7	14	427/22-007	Bushing for tandem axle suspension system	573433-569
8	4	428/22-008	Clamp to axle for tandem axle suspension system	573433-572
9	1	353/12-001	Red Neck Drop Leg Jack	294020
10	3	354/14-001	Axle Dexter D200/hub face (Stud Piloted)	76/idler/no flange oil
11	12	361/10-002	Tire	11 22.5
12	12	352/10-001	Red Neck Dual Bud Rims 22.5 X 8 ¼ (Stud Piloted)	330800
13	14	521/23-001	Nut	Hexnut-1 - 14
14	14	522/23-002	Bolt	Hhcs-1x6-14
9	1	714/17-014	HSID Drop Leg Jack	TJD-12000-SPR2 12,00
10	3	701/17-001	HSID Track Idler Axle 22,500 lb 77.5" Axle (Hub Piloted)	Hub & wheel spacers
11	12	703/17-003	HSID Tire	11R22.5
12	12	710/17-010	HSID Rim Dual (Hub Piloted)	22.5 x 8 10-hole dual

Later models will have Hub Piloted Wheels and Axles

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TITLE
Frame Trailer 6 Bale

DWG NO 573440-185 | SHT 3 OF 3 | DRAWN Paul

Parts List				
ITEM	QTY	RCMR-PN	DESCRIPTI	PART NUMBER
1	1	421/22-001	Hitch	573433-528
2	1	423/22-003	Tractor Pull Trailer Frame	573433-534
3	1	422/22-002	Pin to hold the adjustable hitch in place	573433-559
4	2	361/10-002	Tire	11 22.5
5	2	352/10-001	Red Neck Dual Bud Rims 22.5 X 8 ¼ (Stud Piloted)	330800
6	1	354/14-001	Axle Dexter D200/hub face (Stud Piloted)	76/idler/no flange oil
7	1	353/12-001	Red Neck Drop Leg Jack	294020
7	1	714/17-014	HSID Drop Leg Jack	TJD-12000-SPR2 12,00
6	1	701/17-001	HSID Track Idler Axle 22,500 lb 77.5" Axle (Hub Piloted)	Hub & wheel spacers
4	2	703/17-003	HSID Tire	11R22.5
5	2	710/17-010	HSID Rim Dual (Hub Piloted)	22.5 x 8 10-hole dual

Later models will have Hub Piloted Wheels and Axles

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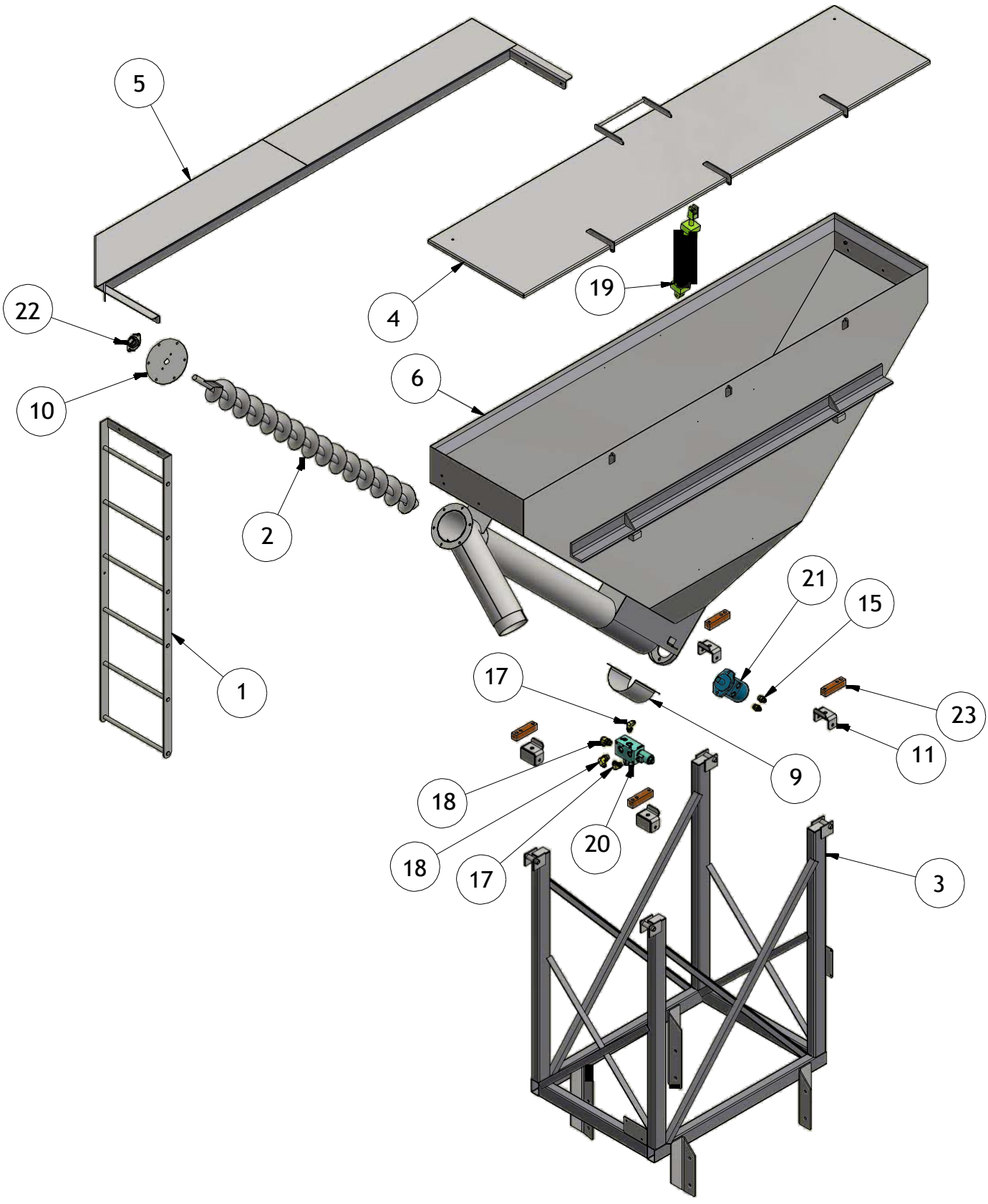
S:\CUSTOMERS\RCMR\std presentation\573438-180.idw

TITLE
Frame Trailer 4 Bale

DWG NO 573438-180	SHT 1 OF 1	DRAWN Paul	Page 36



Mechanical Truck

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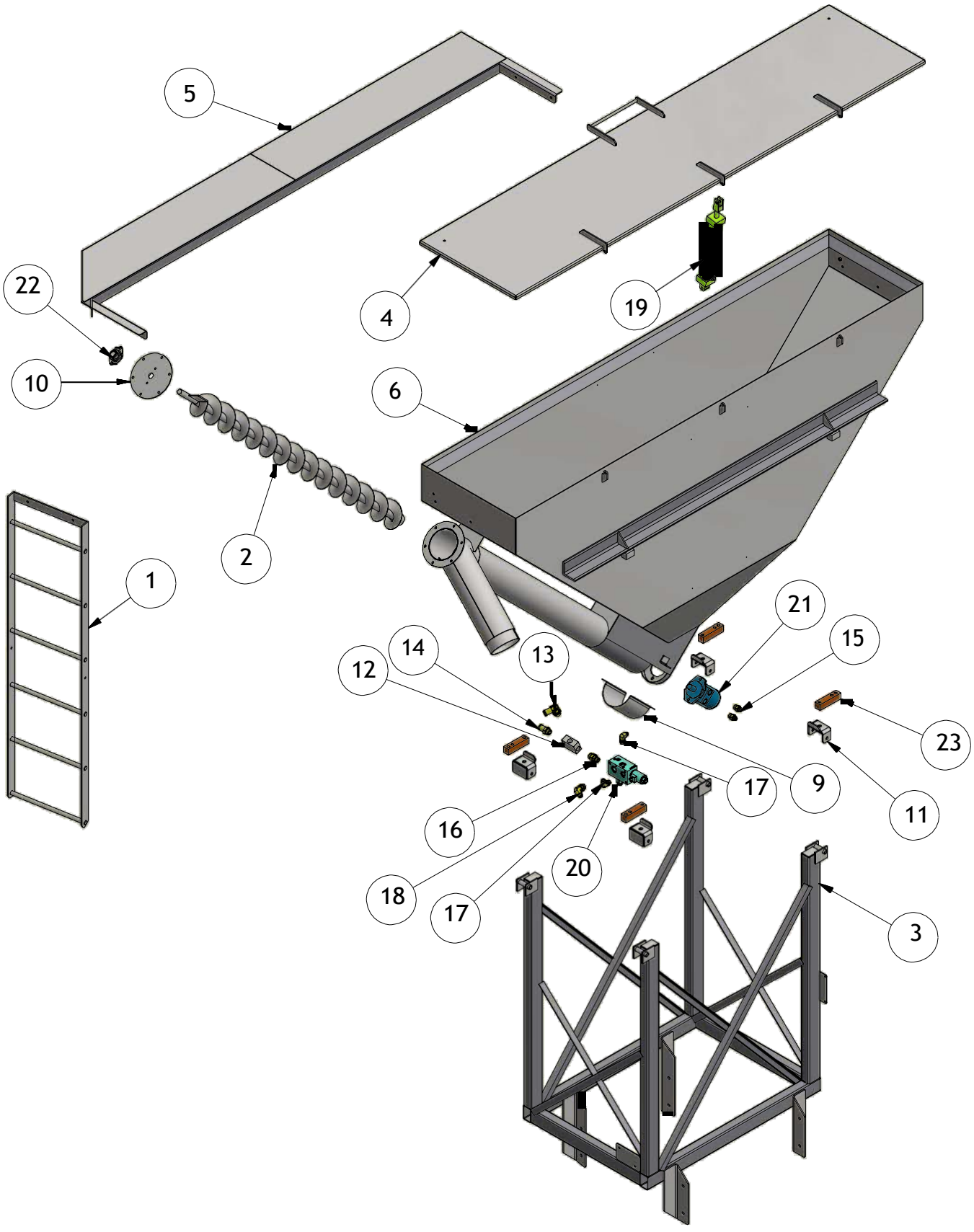
S:\CUSTOMERS\RCMR\sldpresentation573434-600.idw

TITLE
Grain Attachment

DWG NO 573434-600	SHT 1 OF 4	DRAWN Paul	Page 37



Hydraulic Truck

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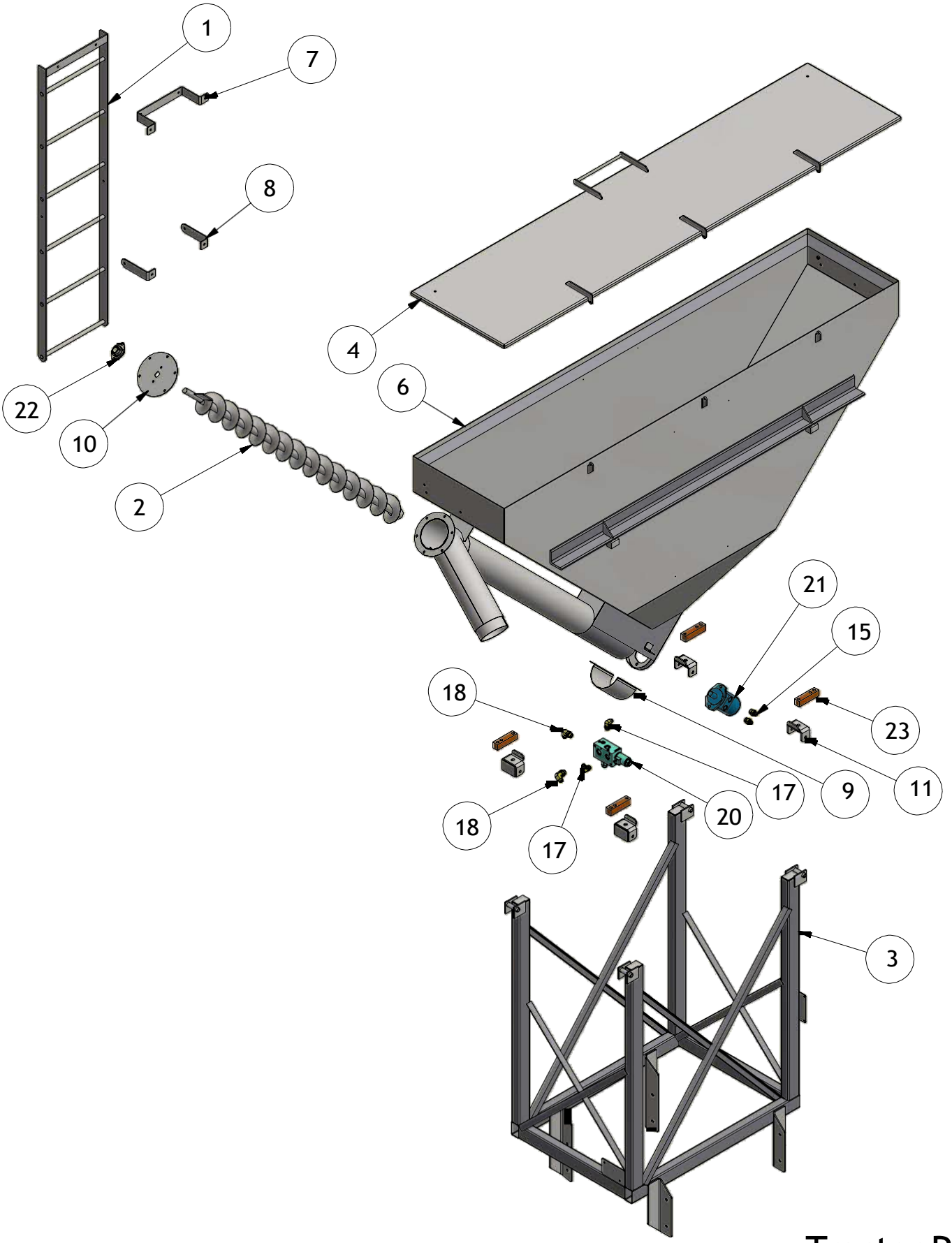
TITLE
Grain Attachment

DWG NO 573434-600	SHT 2 OF 4	DRAWN Paul	Page 38



Tractor Pull

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TITLE
Grain Attachment

DWG NO 573434-600	SHT 3 OF 4	DRAWN Paul	Page 39

Grain Attachment				
ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	495/22-075	Ladder	573434-601
2	1	536/23-016	Auger	573434-602
3	1	496/22-076	Frame stand for grain bin	573434-604
4	1	497/22-077	Cover/Lid	573434-605
5	1	498/22-078	Platform on Grain Bin	573434-606
6	1	499/22-079	Grain Bin Hopper	573434-607
7	1	500/22-080	Ladder Bracket A (Tractor Pull)	573434-631
8	2	501/22-081	Ladder Bracket B (Tractor Pull)	573434-632
9	1	502/22-082	Auger clean out cover	573434-635
10	1	503/22-083	Auger end cap plate	573434-651
11	4	445/22-025	Bracket weigh bars pivot on	573439-218
12	1	199/02-082	O-Ring Tee Coupling LDI SAE straight thread tee coupling	1060-12-12-12
13	1	299/09-006	Beaded Hose to O-Ring Elbow 90	4601-16-12
14	1	310/09-017	Beaded Hose to O-Ring Straight	4604-16-12
15	2	325/09-032	JIC to O-Ring Straight	6400-08-10
16	1	312/09-019	O-Ring Adjustable Union	6403-NWO-12-10
17	2	313/09-020	JIC to O-Ring Elbow 90	6801-08-08
18	2	319/09-026	JIC to O-Ring Elbow 90	6801-08-10
19	1	168/02-049	Air Cylinder #1027 grain lid	B300 X 12
20	1	272/07-010	F/T Manifold - Grain	P15594-2
21	1	157/02-037	Hydraulic Motor (different on later Hydraulic drive models)	TB0130AS100AAAA
22	1	537/23-017	Bearing end of grain auger	bearing 1in bore
23	4	231/06-002	SBS 5K LB (SE) Weigh Bar	403477
23	4	505/22-085	Dummy Weigh Bar	573439-261

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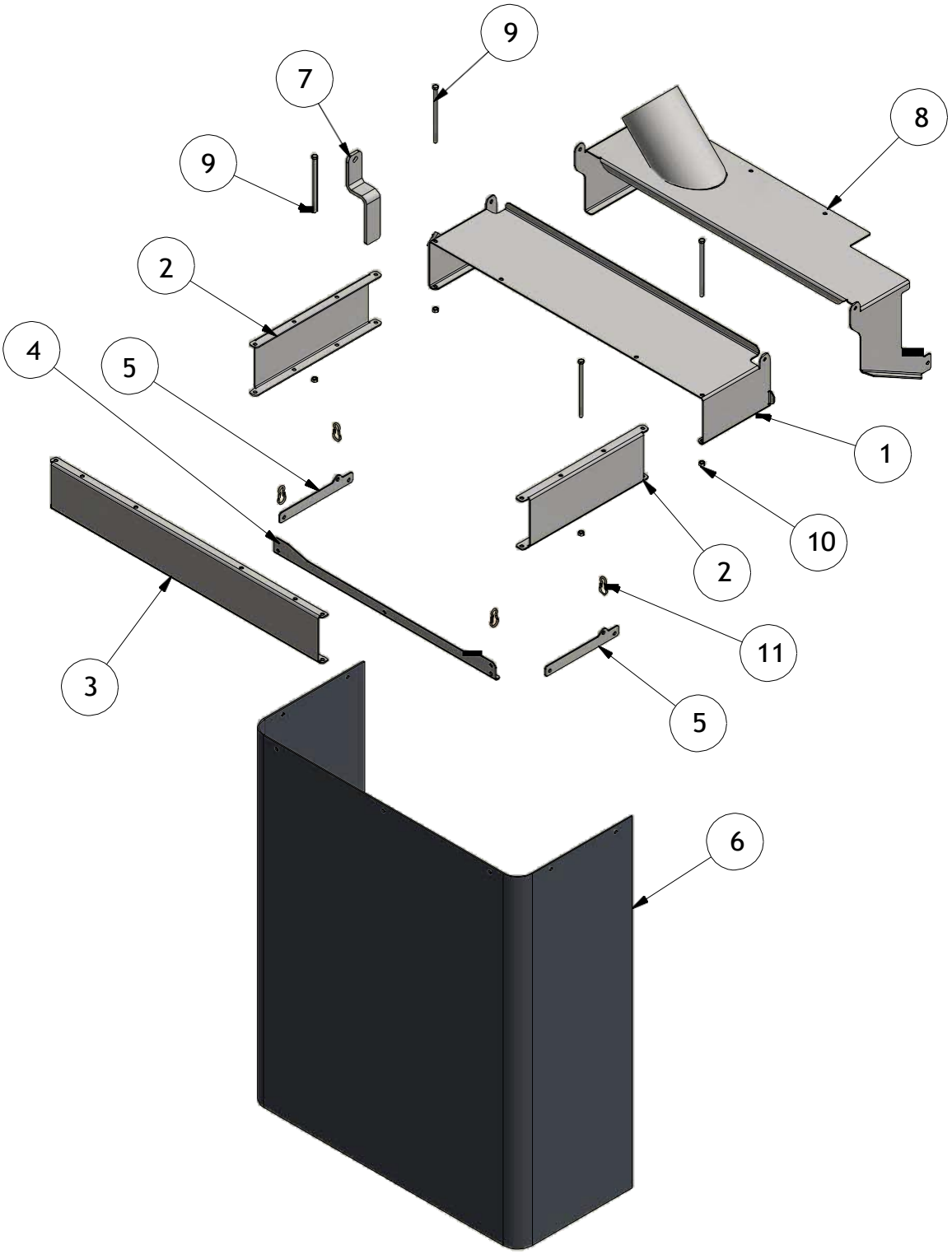
TITLE
Grain Attachment

DWG NO 573434-600 | SHT 4 OF 4 | DRAWN Paul



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TITLE
Discharge Hood

DWG NO	SHT	DRAWN	
573435-600-Dis-Hood	1 OF 2	Paul	Page 41

S:\CUSTOMERS\RCMR\std\presentation\573435-600_Disch_Hood.idw

Discharge Hood				
ITEM	QTY	RCMR-PN	DESCRIPTION	V-PART NUMBER
1	1	479/22-059	Middle Frame Discharge Hood	573435-601
2	2	480/22-060	Side Frame Discharge Hood	573435-602
3	1	481/22-061	Front Frame Discharge Hood	573435-603
4	1	482/22-062	Front Curtain Support	573435-604
5	2	483/22-063	Side Curtain Support	573435-605
6	1	55/01-064	Heavy Duty Rubber Curtain 4ft X 6ft	573435-606
7	1	484/22-064	Top Bracket for Air Cylinder	573435-609
8	1	485/22-065	Back Frame Discharge Hood	573435-610
9	4	533/23-013	Bolt	375x7
10	4	534/23-014	Nut	HexNut
11	4	535/23-015	Chain quick link connects rubber curtain	¼ in
	2	549/23-029	Spring connects side frames to middle frame (Not Shown)	Heavy Duty

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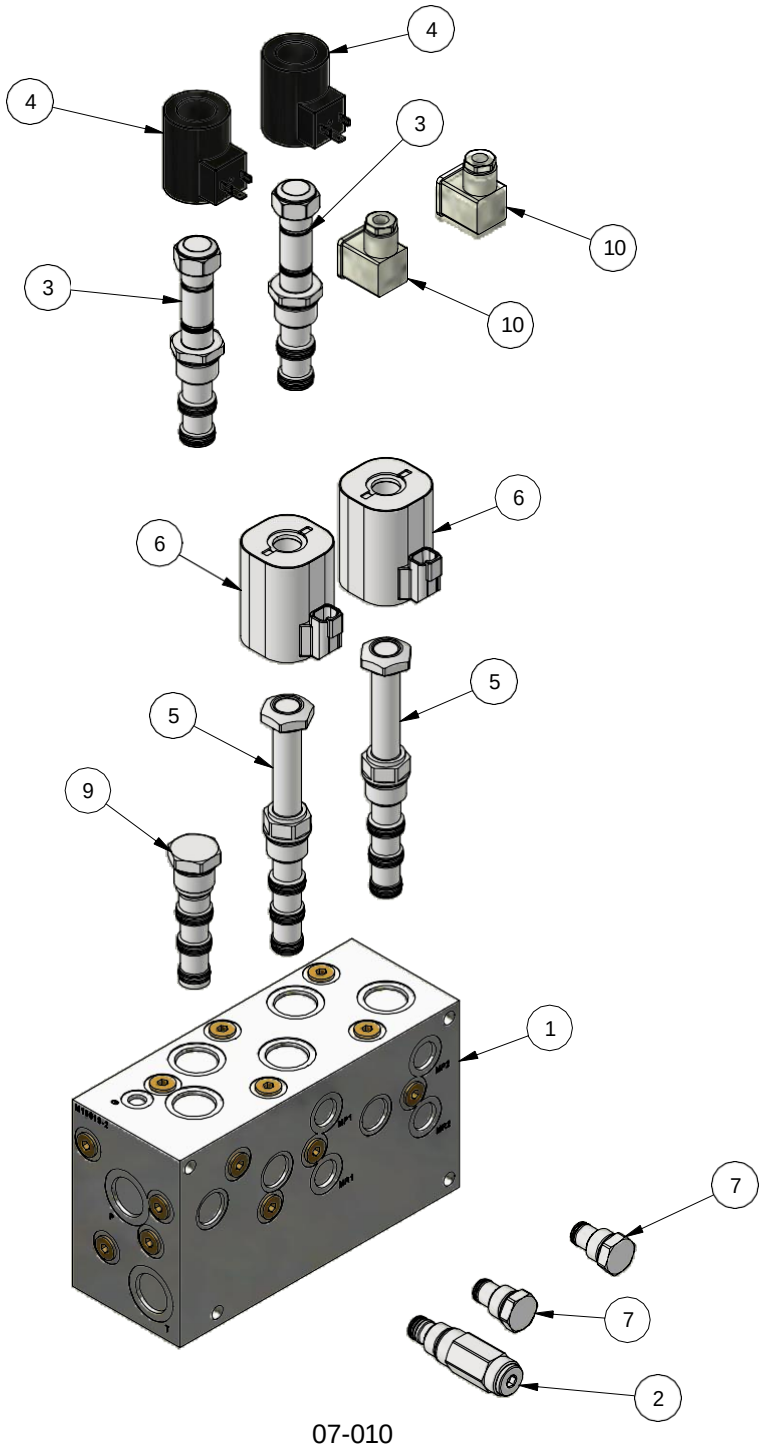
TITLE
Discharge Hood

DWG NO
573435-600-Dis-Hood

SHT 2 OF 2

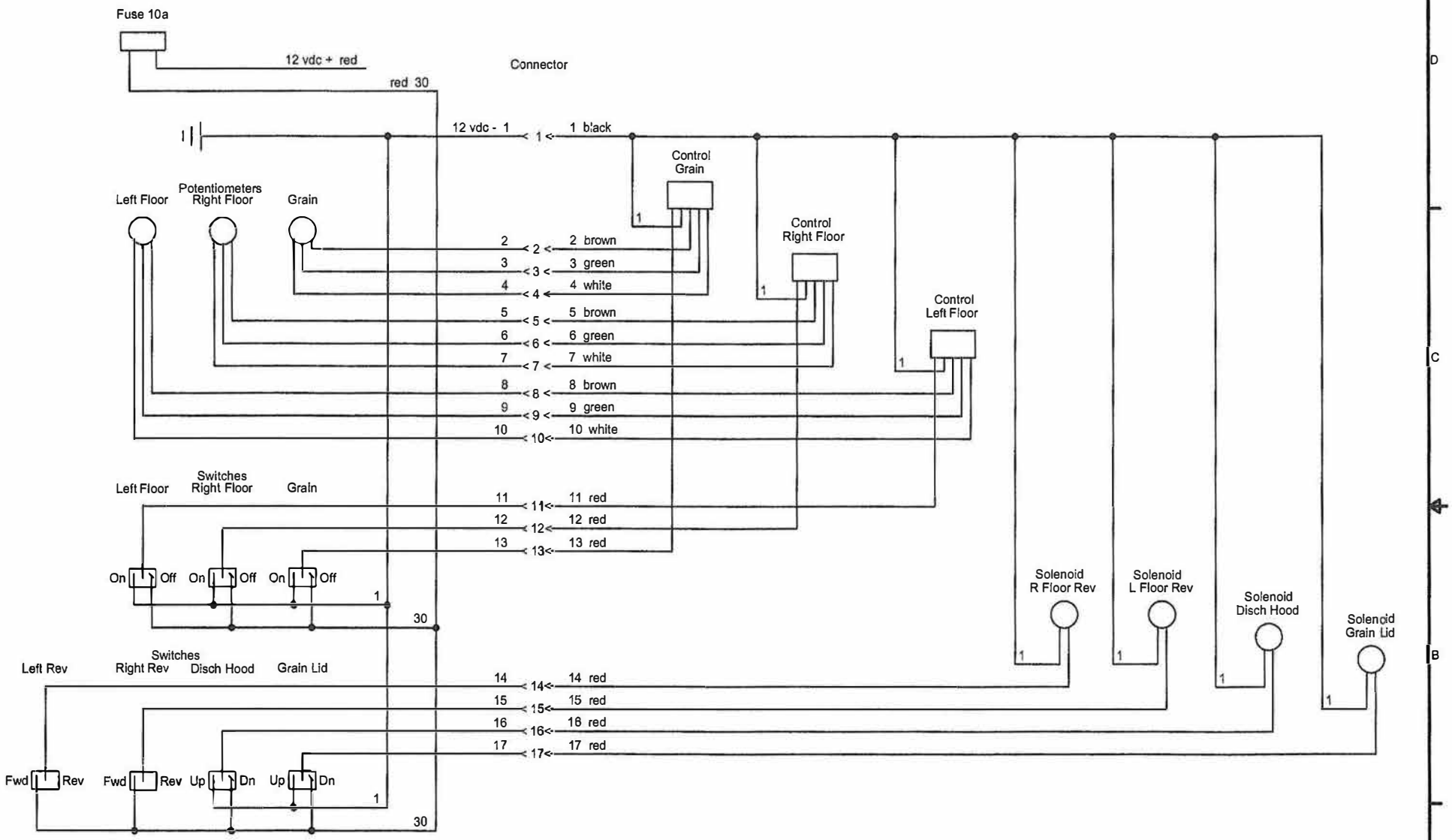
DRAWN
Paul

ITEM	RCMR-PN	QTY	DESCRIPTION	PART NUMBER
1	263/07-001	1	Manifold Body	M15619-2
2	264/07-002	1	Relieve Valve	RV10-28H-0-N-35/10.00
3	265/07-003	2	Proportional Flow Control valve (cartridge)	H/FPV72-30B-0-N-00
4	266/07-004	2	Coil 70 Size 12 VDC Din connection (forward speed control coil)	H/F 6507612 12VDC
6	268/07-006	2	Coil 12 Size ER 12 VDC Deutsch connection (reverser coil)	H/F 4301212 12VDC
5	267/07-005	2	Reverse Valve	H/F SV12-40R-0-N-00 4-W
7	269/07-007	2	Check Valve	H/F CV10-20-0-N-5
Gold	270/07-008	14	Hollow Hex Plug -6 SAE O-ring (Gold in color in the drawing)	6HP5ON
9	271/07-009	1	Flow Divider	H/F FD52-45-0-N-44
10	274/07-012	2	Proportional Controller 90HZ -EL Driver Econo PWM	H/F 4000172



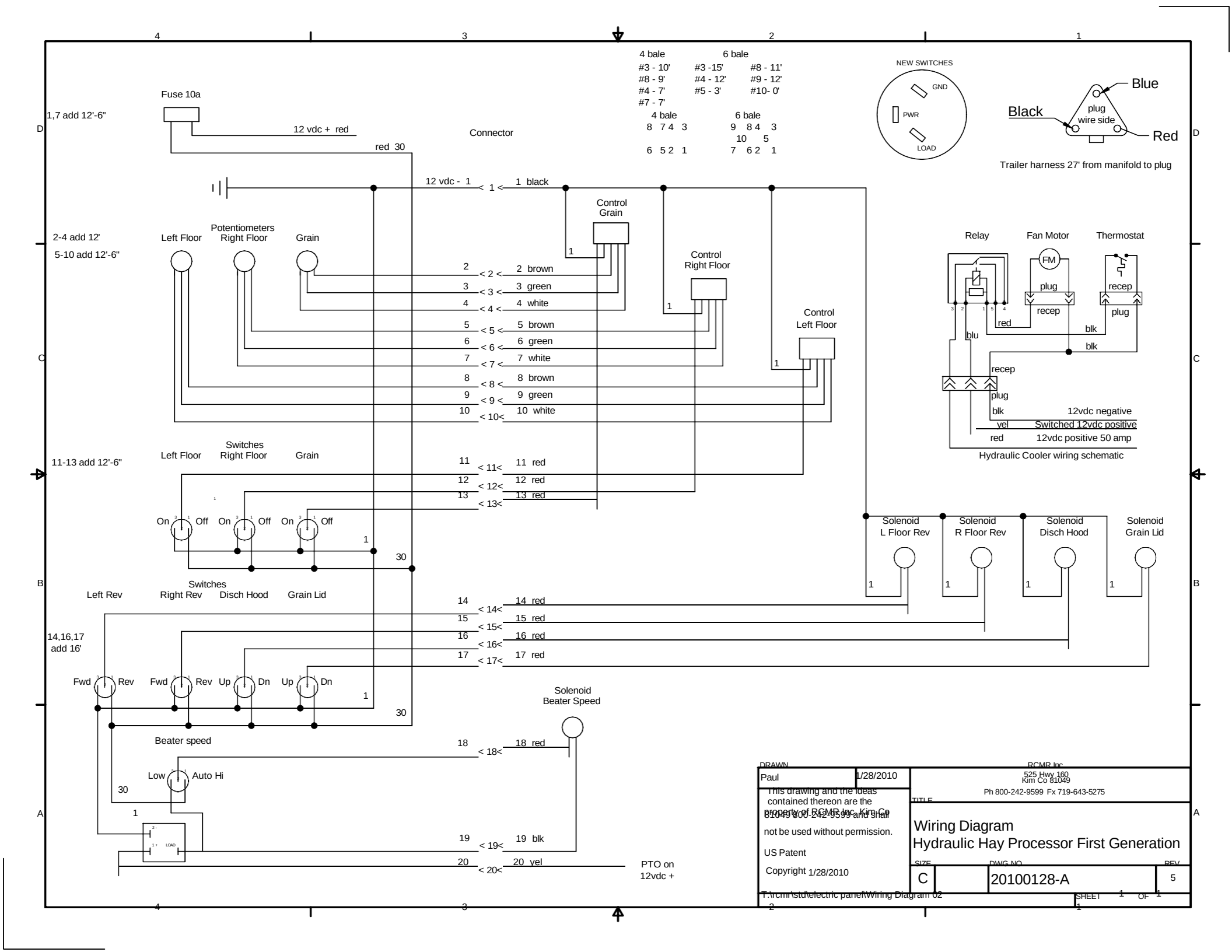
07-010
P15619-2

\\SERVER1\Inventor\CUSTOMERS\RCMR\Standard Square\presentation\P15619-2.idw CREATED: 6/6/2023



Trailer harness 27' from manifold to plug

DRAWN Paul	1/28/2010	RCMR Inc. 525 Hwy 160 Kim Co 81049 Ph 800-242-9599 Fx 719-643-5275
This drawing and the ideas contained thereon are the property of RCMR Inc. Kim Co 81049 800-242-9599 and shall not be used without permission. US Patent Copyright 1/28/2010		TITLE: Wiring Diagram Hay Processor
		SIZE C; DWG NO 20100128-A; REV
T:\rcmr\std\electric panel\Wiring Diagram 02		SHEET 1 OF 1


4 bale
#3 - 10'
#8 - 9'
#4 - 7'
#7 - 7'
6 bale
#3 -15'
#4 - 12'
#5 - 3'
#8 - 11'
#9 - 12'
#10- 0'
4 bale
8 7 4 3
6 5 2 1
6 bale
9 8 4 3
10 5
7 6 2 1
NEW SWITCHES
GND
PWR
LOAD
Blue
Black
plug
wire side
Red
Trailer harness 27' from manifold to plug
Fuse 10a
1,7 add 12'-6"
12 vdc + red
red 30
Connector
12 vdc - 1
1 black
Control
Grain
Control
Right Floor
Control
Left Floor
2-4 add 12'
5-10 add 12'-6"
Potentiometers
Left Floor
Right Floor
Grain
2 brown
3 green
4 white
5 brown
6 green
7 white
8 brown
9 green
10 white
Relay
Fan Motor
Thermostat
FM
plug
recep
red
blk
blu
12vdc negative
Switched 12vdc positive
12vdc positive 50 amp
Hydraulic Cooler wiring schematic
11-13 add 12'-6"
Switches
Left Floor
Right Floor
Grain
11 red
12 red
13 red
On Off
30
Solenoid
L Floor Rev
Solenoid
R Floor Rev
Solenoid
Disch Hood
Solenoid
Grain Lid
Switches
Left Rev
Right Rev
Disch Hood
Grain Lid
14,16,17
add 16'
14 red
15 red
16 red
17 red
Fwd Rev
Up Dn
Solenoid
Beater Speed
Beater speed
18 red
Low Auto Hi
19 blk
20 yel
PTO on
12vdc +
DRAWN
Paul
1/28/2010
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US Patent
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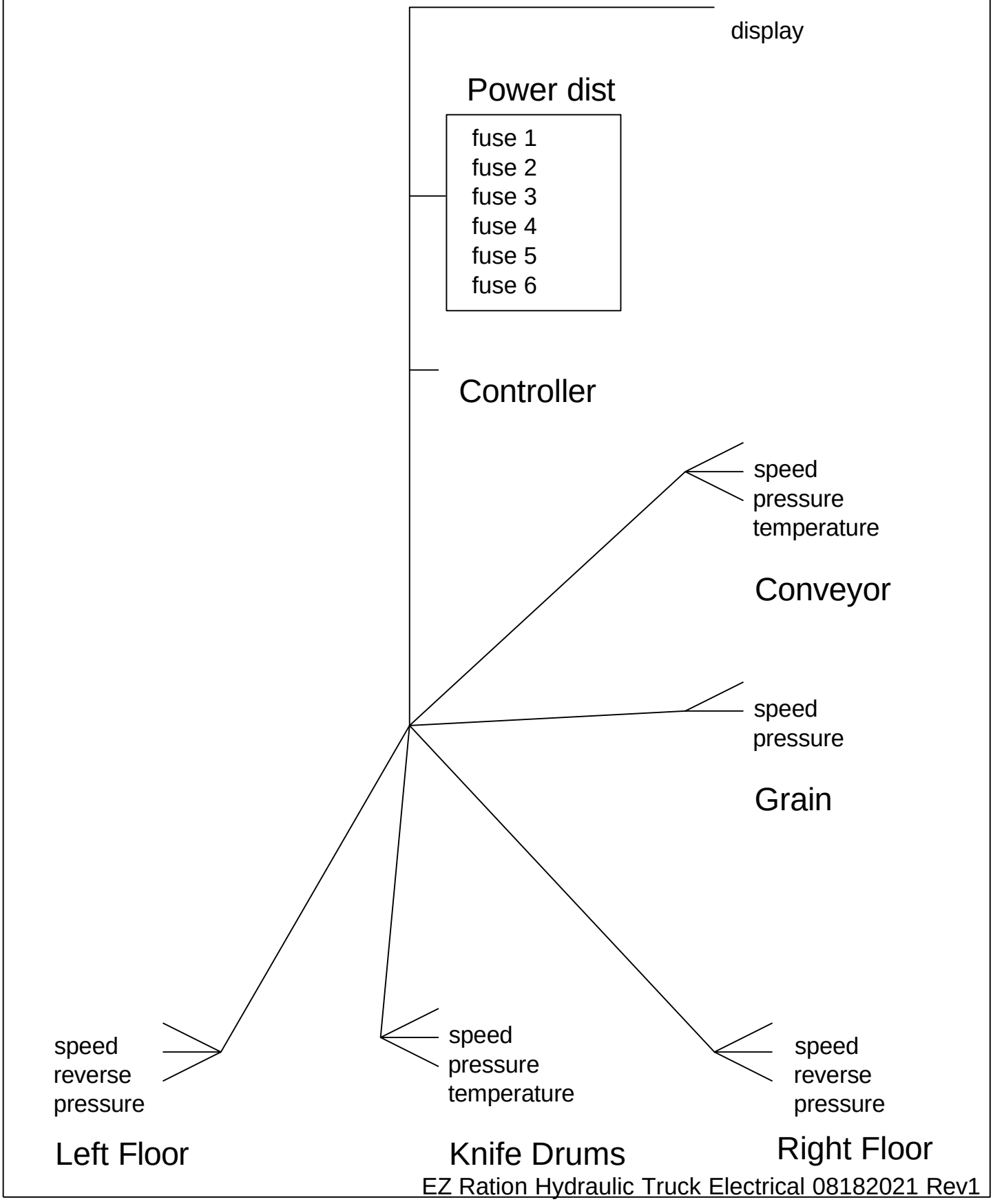
RCMR Inc
525 Hwy 160
Kim Co 81049
Ph 800-242-9599 Fx 719-643-5275
TITLE
Wiring Diagram
Hydraulic Hay Processor First Generation
SIZE
C
DWG NO
20100128-A
REV
5
T:\rcmr\std\electric panel\Wiring Diagram 02
SHEET 1 OF 1

Hydraulic Drive Computer Controlled Truck Model

Wiring Diagram



Type of connectors used

Display:
deutsch DTM06-12SA

Controller:
molex 064320-1311 connector
molex 064320-1301 back shell

Knife Drums:
deutsch DT06-2S speed
deutsch DT06-3S pressure
deutsch DT06-3S temperature

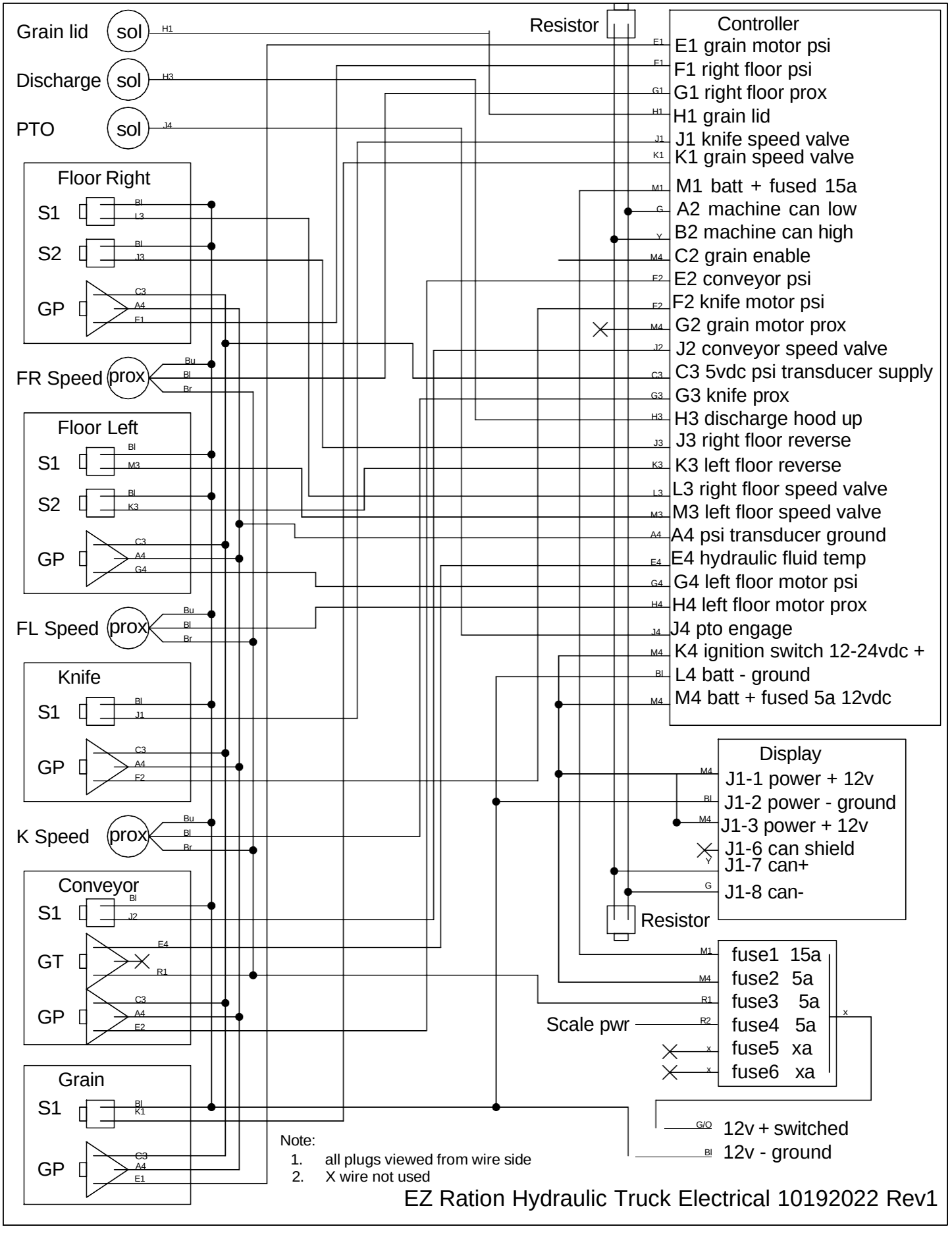
Floor left:
deutsch DT06-2S speed
deutsch DT06-2S reverse
deutsch DT06-3S pressure

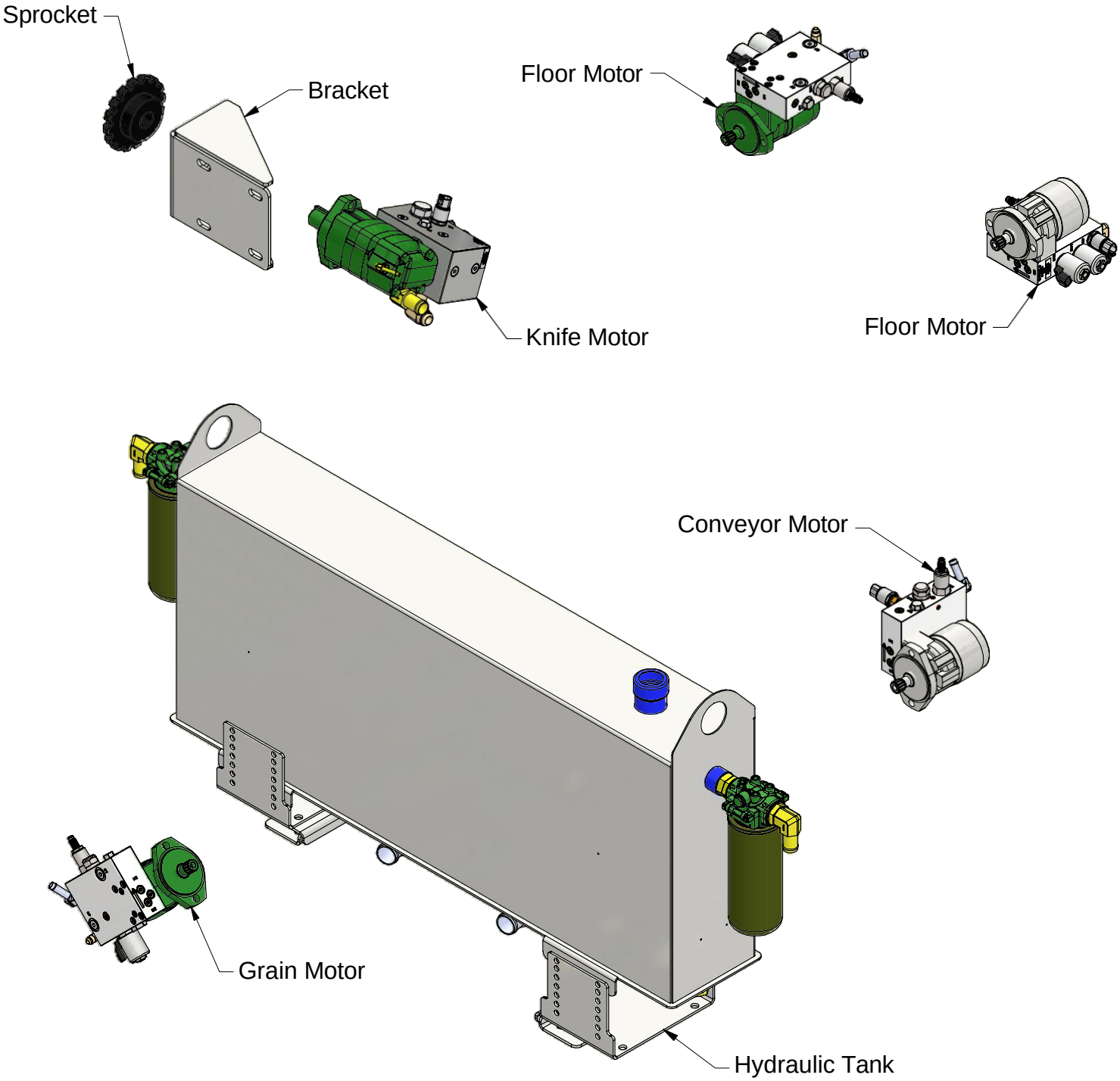
Floor right:
deutsch DT06-2S speed
deutsch DT06-2S reverse
deutsch DT06-3S pressure

Grain Attachment:
deutsch DT06-2S speed
deutsch DT06-3S pressure

Discharge conveyor:
deutsch DT06-2S speed
deutsch DT06-3S pressure
deutsch DT06-3S temperature

CAN terminating resistor:
aptiv 15429045 GT 150 series connector 121 ohm terminating resistor
aptiv 13510085 GT 150 series 2 way female connector (harness end)


Grain lid
sol
H1
Discharge
sol
H3
PTO
sol
J4
Floor Right
S1
S2
GP
Bl
L3
Bl
J3
C3
A4
F1
FR Speed
prox
Bu
Bl
Br
Floor Left
S1
S2
GP
Bl
M3
Bl
K3
C3
A4
G4
FL Speed
prox
Bu
Bl
Br
Knife
S1
GP
Bl
J1
C3
A4
F2
K Speed
prox
Bu
Bl
Br
Conveyor
S1
GT
GP
Bl
J2
E4
R1
C3
A4
E2
Grain
S1
GP
Bl
K1
C3
A4
E1
Resistor
Controller
E1 E1 grain motor psi
F1 F1 right floor psi
G1 G1 right floor prox
H1 H1 grain lid
J1 J1 knife speed valve
K1 K1 grain speed valve
M1 M1 batt + fused 15a
G A2 machine can low
Y B2 machine can high
M4 C2 grain enable
F2 E2 conveyor psi
F2 F2 knife motor psi
M4 G2 grain motor prox
J2 J2 conveyor speed valve
C3 C3 5vdc psi transducer supply
G3 G3 knife prox
H3 H3 discharge hood up
J3 J3 right floor reverse
K3 K3 left floor reverse
L3 L3 right floor speed valve
M3 M3 left floor speed valve
A4 A4 psi transducer ground
E4 E4 hydraulic fluid temp
G4 G4 left floor motor psi
H4 H4 left floor motor prox
J4 J4 pto engage
M4 K4 ignition switch 12-24vdc +
Bl L4 batt - ground
M4 M4 batt + fused 5a 12vdc
Display
M4 J1-1 power + 12v
Bl J1-2 power - ground
M4 J1-3 power + 12v
Y J1-6 can shield
J1-7 can+
G J1-8 can-
Resistor
M1 fuse1 15a
M4 fuse2 5a
R1 fuse3 5a
Scale pwr R2 fuse4 5a
x fuse5 xa
x fuse6 xa
x
G/O 12v + switched
Bl 12v - ground
Note:
1. all plugs viewed from wire side
2. X wire not used
EZ Ration Hydraulic Truck Electrical 10192022 Rev1

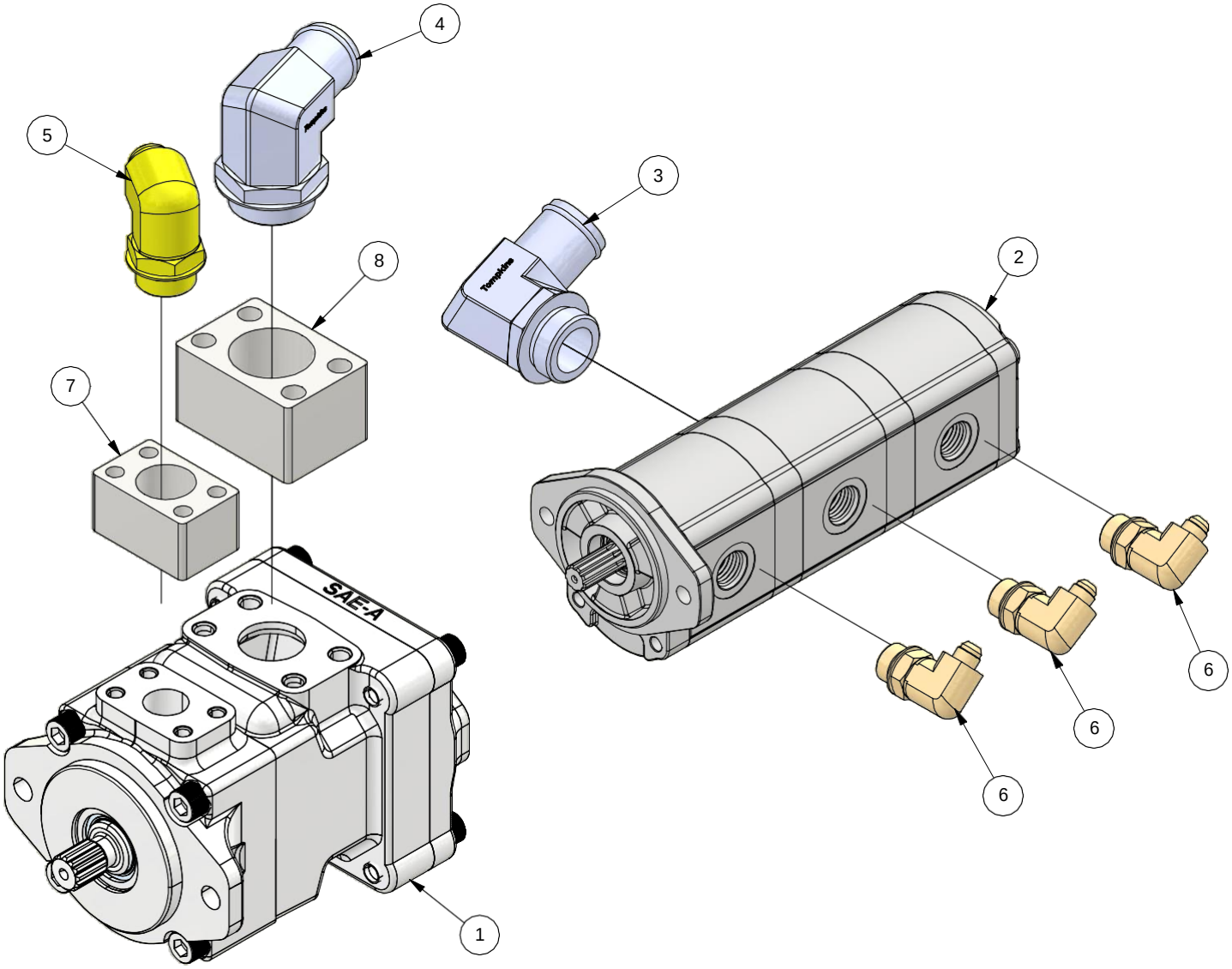


Hydraulic Drive V3

	DWG #: Truck Hydraulic V3	573445-800	SHEET 1 OF 7	REV 2	PG 47

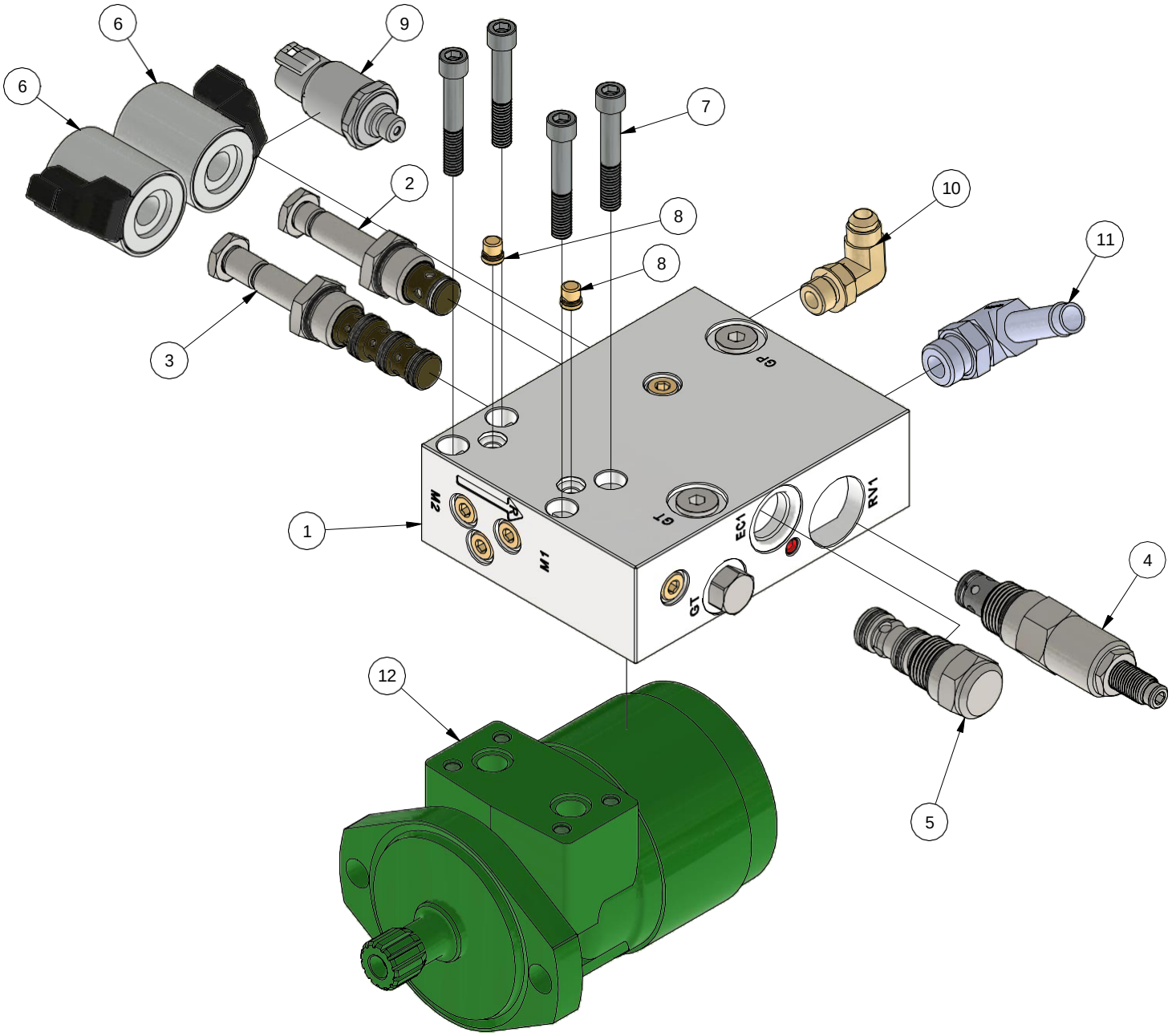
\\SERVER1\Inventor\CUSTOMERS\RCMR\Standard Square\presentation\Truck Hydraulic V3.idw CREATED: 11/29/2022

ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	212/02-094	Veljan 4.84 cid vane through shaft pump	VT6CRM-B25-3R03-A10-A1
2	1	214/02-096	Honor 3sec gear pump common inlet	2TG2AQ161616R
3	1	337/09-044	Beaded Hose to O-Ring Elbow 90	4601-24-20
4	1	338/09-045	Beaded Hose to O-Ring Elbow 90	4601-24-24
5	1	322/09-029	JIC to O-Ring Elbow 90	6801-12-16
6	3	673/09-048	JIC to O-Ring Elbow 90	6801-06-10
7	1	675/09-050	O-Ring Flange Pad Code 61	W46K-16-16
8	1	676/09-051	O-Ring Flange Pad Code 61	W46K-24-24



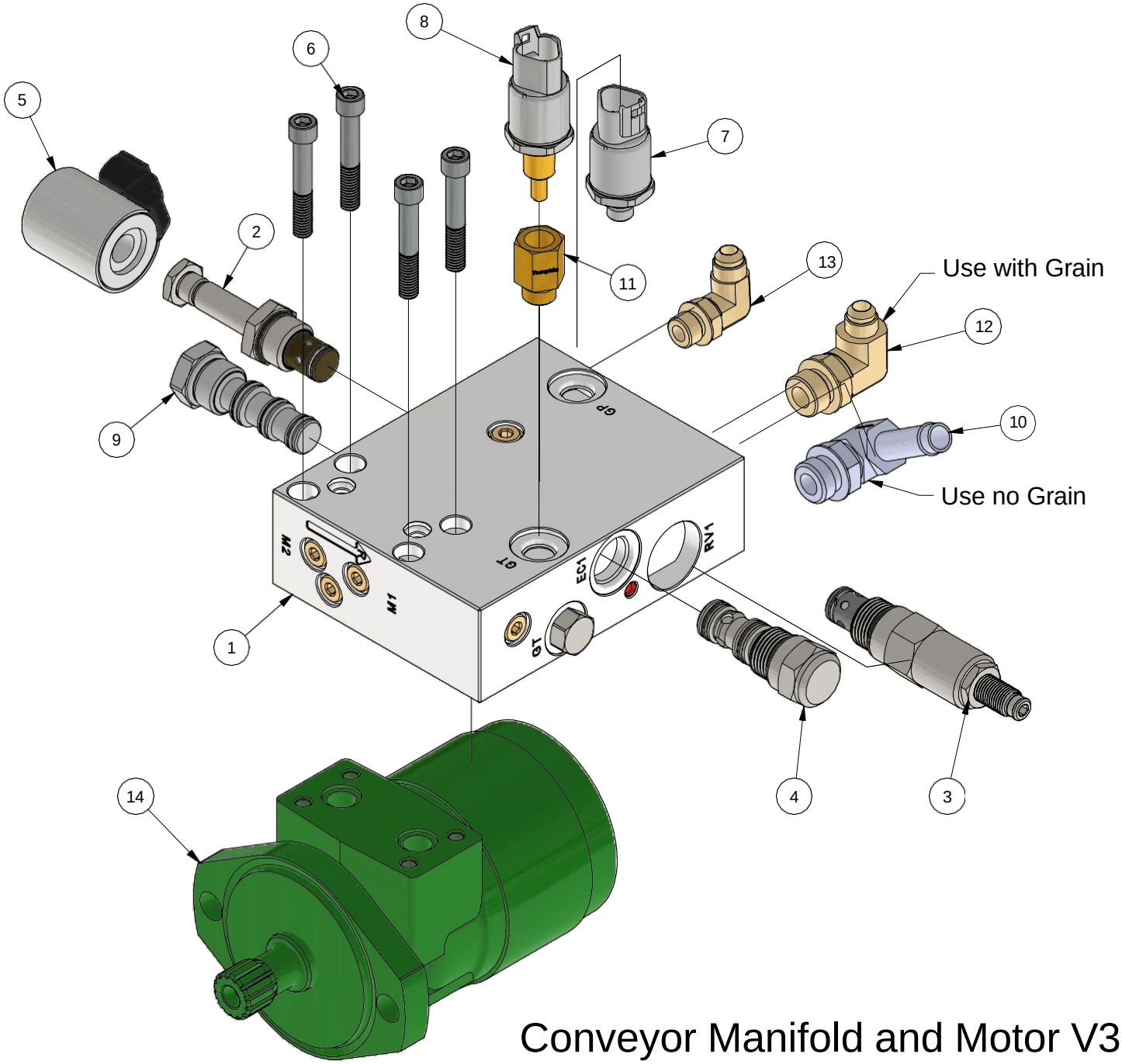
Pump V3

ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	783/07-103	Manifold Body	M17042-3
2	1	782/07-102	Speed Valve	ESV1-10-C-0-00-CV
3	1	787/07-107	Reverse Valve	SV1-10-4-0-00-CV
4	1	785/07-105	Relief Valve	RV1-10-S-0-30-10-CV
5	1	781/07-101	Logic Valve	DPS2-10-P-F-0-160-CV
6	2	784/07-104	Solenoid 12VDC Coil	MCSCJ012DN000010-CV
7	4	786/07-106	Bolt	SHCS 31-18-2.000- Grade 8
8	2	780/07-100	Plug	Epco Plug-22S-S02
9	1	797/07-117	Pressure Transducer	HDA 847K-R-6000-000
10	1	672/09-047	JIC to O-Ring Elbow 90	6801-06-06
11	1	336/09-043	Beaded Hose to O-Ring Elbow 90	4601-08-08
12	1	215/02-097	Parker Hydraulic Motor	TB0100AM280AAAA



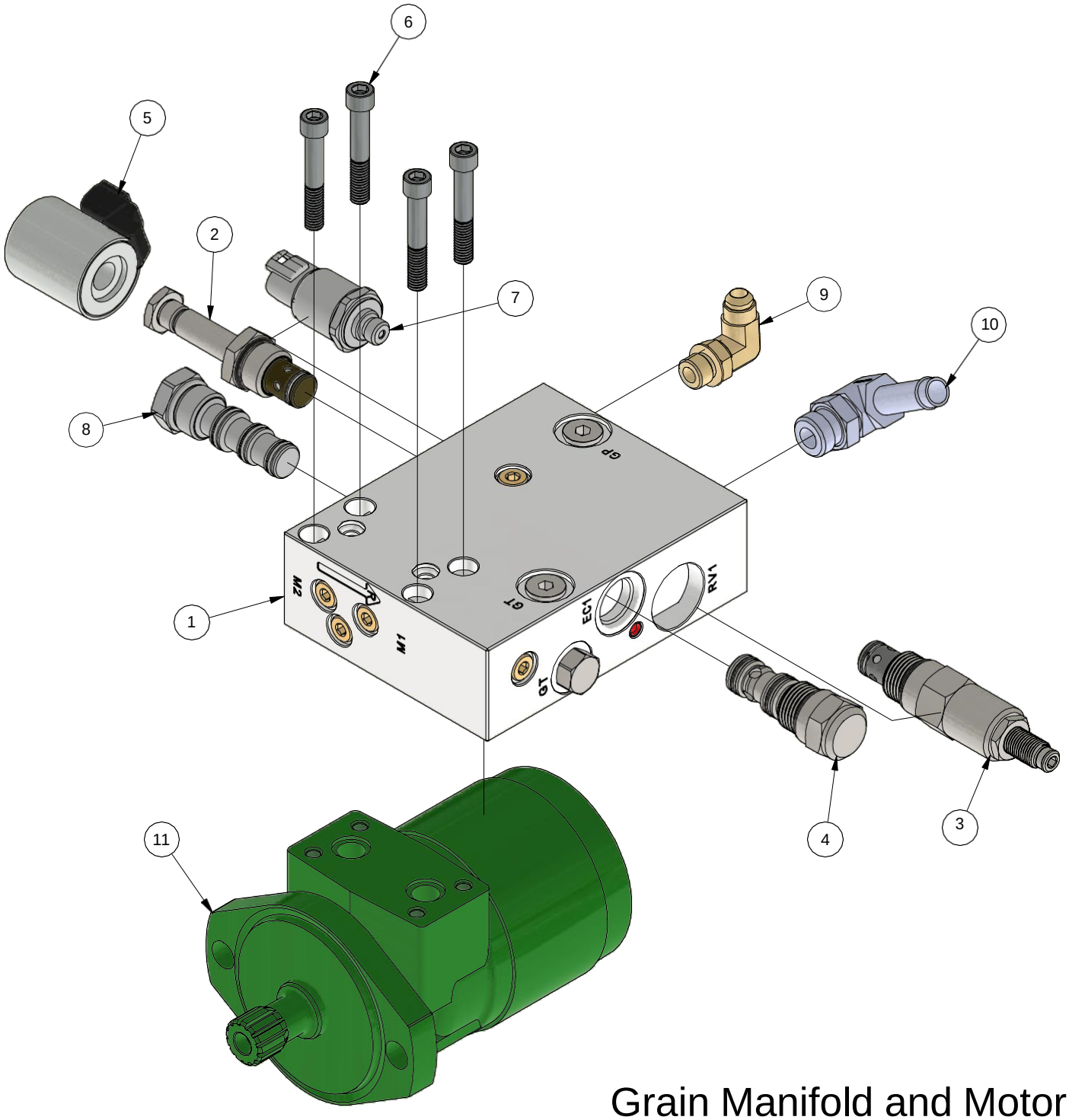
Floor Manifold and Motor V3

ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	783/07-103	Manifold Body	M17042-3
2	1	782/07-102	Speed Valve	ESV1-10-C-0-00-CV
3	1	785/07-105	Relief Valve	RV1-10-S-0-30-10-CV
4	1	781/07-101	Logic Valve	DPS2-10-P-F-0-160-CV
5	1	784/07-104	Solenoid 12VDC Coil	MCSCJ012DN000010-CV
6	4	786/07-106	Bolt	SHCS 31-18-2.000- Grade 8
7	1	797/07-117	Pressure Transducer	HDA 847K-R-6000-000
8	1	795/07-115	Temperature Sensor	HTT 828K-A-012-001
9	1	806/07-126	Cavity Plug	5291410 in
10	1	336/09-043	Beaded Hose to O-Ring Elbow 90	4601-08-08
11	1	678/09-053	Male O-Ring to Female Pipe adapter	6405-06-04
12	1	697/09-072	JIC to O-Ring Elbow 90	6801-06-08
13	1	672/09-047	JIC to O-Ring Elbow 90	6801-06-06
14	1	215/02-097	Parker Hydraulic Motor	TB0100AM280AAAA



Conveyor Manifold and Motor V3

ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	783/07-103	Manifold Body	M17042-3
2	1	783/07-102	Speed Valve	ESV1-10-C-0-00-CV
3	1	785/07-105	Relief Valve	RV1-10-S-0-30-10-CV
4	1	781/07-101	Logic Valve	DPS2-10-P-F-0-160-CV
5	1	784/07-104	Solenoid 12VDC Coil	MCSCJ012DN000010-CV
6	4	786/07-106	Bolt	SHCS 31-18-2.000- Grade 8
7	1	797/07-117	Pressure Transducer	HDA 847K-R-6000-000
8	1	806/07-126	Cavity Plug	5291410 in
9	1	672/09-047	JIC to O-Ring Elbow 90	6801-06-06
10	1	336/09-043	Beaded Hose to O-Ring Elbow 90	4601-08-08
11	1	219/02-101	Parker Hydraulic Motor	TB0130AM280AAAA

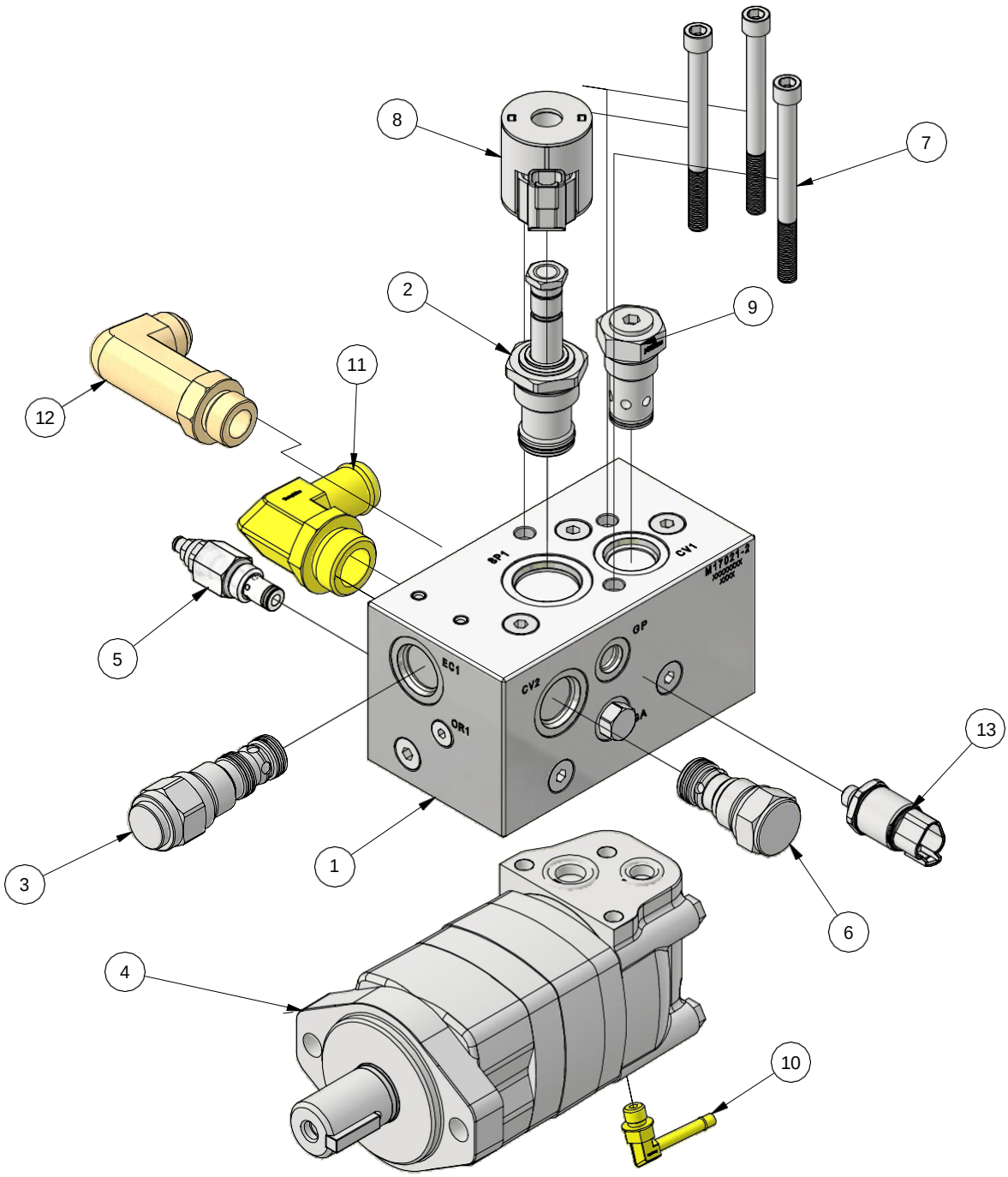


Grain Manifold and Motor V3

	DWG #: Truck Hydraulic V3	P17042_3	SHEET 5 OF 7	REV 2	PG 51

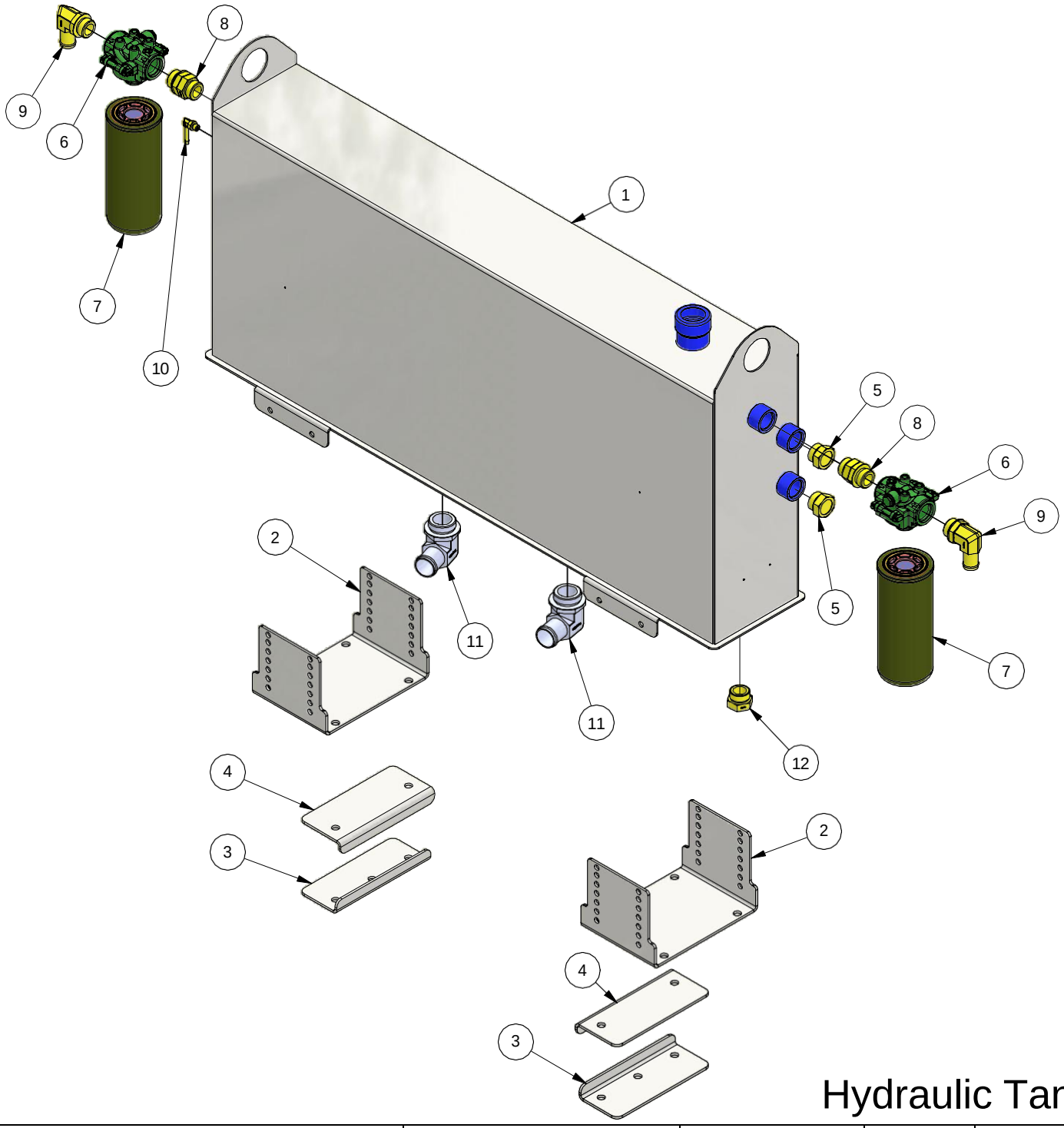
\\SERVER1\Inventor\CUSTOMERS\RCMR\Standard Square\presentation\Truck Hydraulic V3.idw CREATED: 11/29/2022

ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	798/07-118	Knife Manifold Body	M17021-2-Standard
2	1	799/07-119	Speed Valve	SP16-20-0-N-00
3	1	800/07-120	Logic Valve	DPS2-12-P-F-0-160-CV
4	1	642/07-065	2K Hydraulic Motor	M02080AC02AB010ABAAF-104-3475-006
5	1	801/07-121	Relief Valve	44608-4000
6	1	802/07-122	Check Valve	CV11-12-P-0-5-CV
7	3	803/07-123	Bolt	SHCS 38-16-4.500-Grade 8
8	1	804/07-124	Solenoid 12VDC Coil	Coil 10 Size ER-4303712
9	1	805/07-125	Check Valve	1812
10	1	298/09-005	Beaded Hose to O-Ring Elbow 90	4601-04-04
11	1	300/09-007	Beaded Hose to O-Ring Elbow 90	4601-16-16
12	1	674/09-049	JIC to O-Ring Elbow 90	6801-LL-12-12
13	1	797/07-117	Pressure Transducer	HDA 847K-R-6000-000



Knife Manifold and Motor V3

ITEM	QTY	RCMR-PN	DESCRIPTION	PART NUMBER
1	1	473/22-053	Hydraulic Reservoir	573445-801
2	2	476/22-056	Mount to truck frame for Hydraulic Reservoir	573445-826
3	2	595/23-074	Hydraulic tank to frame clamp lower	573445-837
4	2	596/23-075	Hydraulic tank to frame clamp upper	573445-838
5	2	193/02-076	Sight Window 1 5/16-12 SAE	LAW-A16
6	2	194/02-077	Filler head assembly hmk04 Duramax	P166088
7	2	200/02-083	Filter	Don P164378
8	2	307/09-014	O-Ring Adjustable Union	6403-NOW-16-16
9	2	300/09-007	Beaded Hose to O-Ring Elbow 90	4601-16-16
10	1	298/09-005	Beaded Hose to O-Ring Elbow 90	4601-04-04
11	2	338/09-045	Beaded Hose to O-Ring Elbow 90	4601-24-24
12	1	316/09-023	O-Ring Hex Plug	6408-16



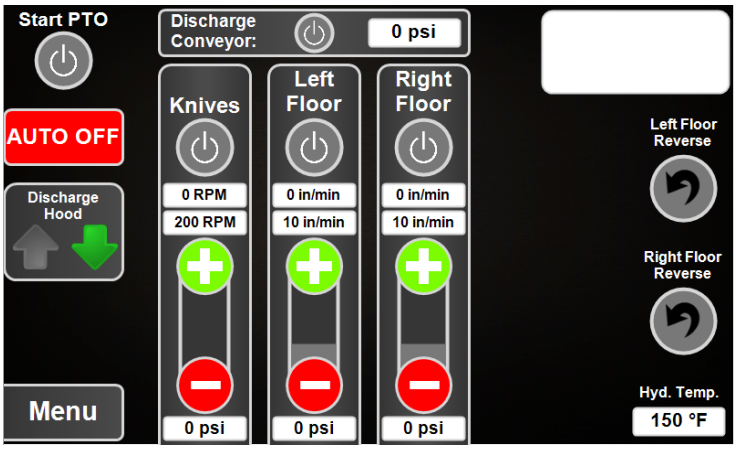
Hydraulic Tank V3

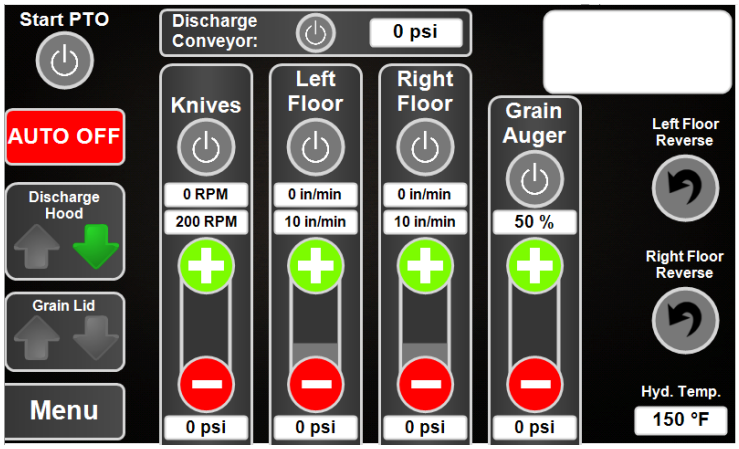
	DWG #: Truck Hydraulic V3	573445-804	SHEET 7 OF 7	REV 2	PG 53

EZ Ration Processor Computer Control Screen

User's Manual

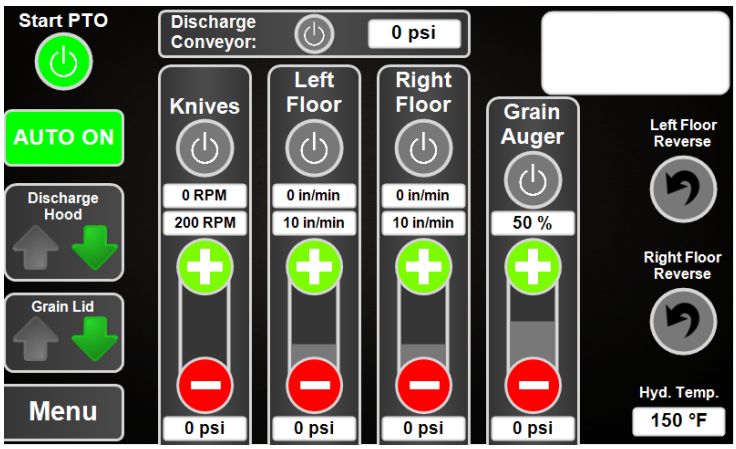
- When you turn the key on or start the truck, the first screen that will come up will look like this (*if you have a Grain Attachment it will look like the second screen*)





- No other functions will activate if the Power Start PTO button is not on and green in color

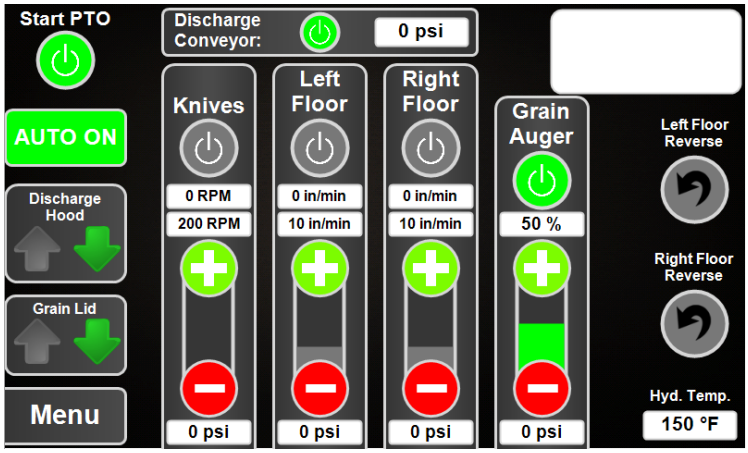
- Touch the Power Start PTO button will turn it green like the screen below - this starts the PTO and the Hydraulic pumps attached to it



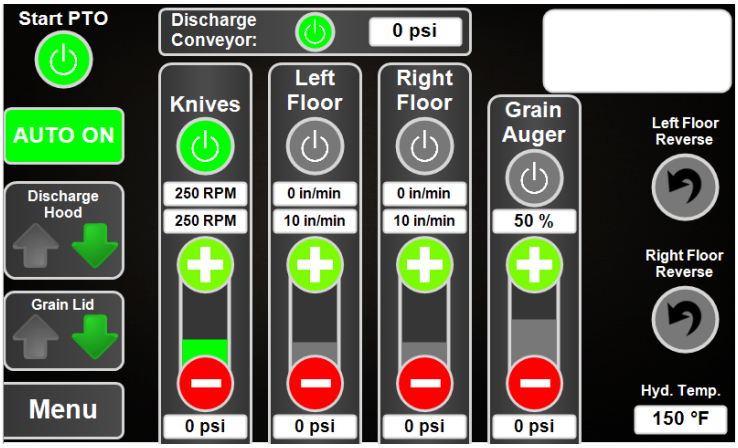
- If the Hydraulic Fluid Temperature reading in the lower left corner is below 32 degrees it will be orange in color and show a fault in the upper right hand message box

- Leave the PTO on and allow the PTO/Hydraulic pumps to run without starting any other functions until the Hydraulic fluid warms up to 32 degrees or higher

- If the Hydraulic Fluid Temp reading is 32 or higher touch the Power Start Discharge Conveyor button and it will turn green like screen below. This starts the Discharge Conveyor – The psi screen next to it will depict the current Hydraulic Pressure required to run it (*sometimes there will be a small one- or two-digit number depicted here if the PTO is on but not the Discharge Conveyor this is just the pressure created by hydraulic fluid circulating through the line*)



- Touching the Power button under Knives will turn it green like the screen below. This starts the Knives (*Knives will not start if both the PTO and the Discharge Conveyor buttons are not both on and green in color*)

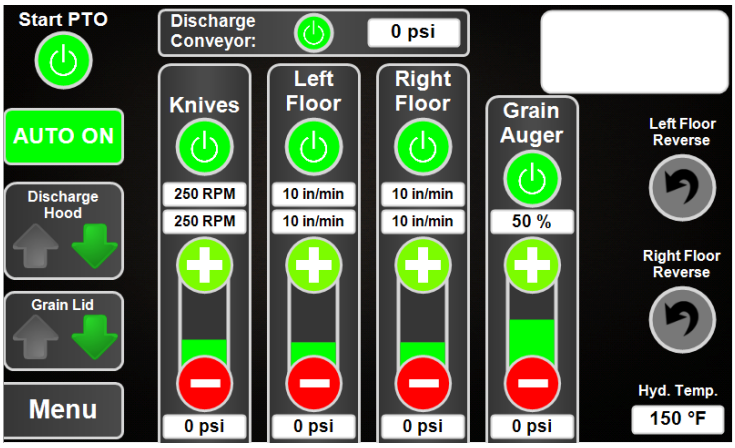


- Touching the Power button for the Knives, Left Floor, or Right Floor will turn them on - the button will be green when on

- The RPM number under the Knife Power button depicts the RPM setting for the knives *(higher is usually always better and generally should just be full on)*

- The second number indicates the actual RPM the knives are turning

- Touching the + or – buttons will change the RPM setting

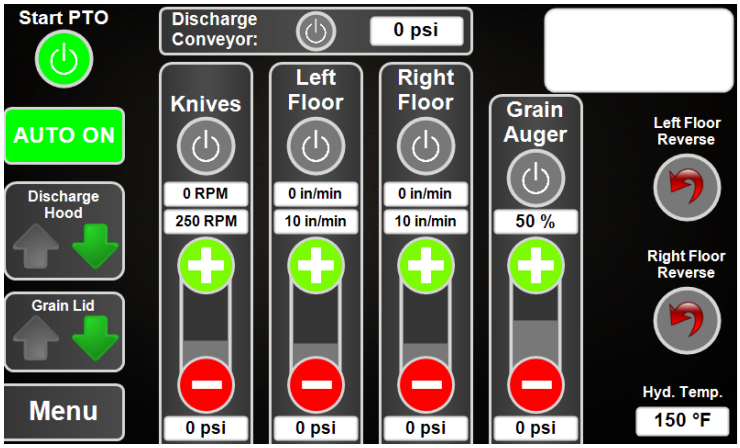


- The In/min number under the Floor Power buttons depicts the inches per minute setting for the floors

- The second number indicates the actual inches per minute the floors are moving – NOTE if this reading is 0 when the floors are on there is a sensor out of adjustment or malfuntioning. In this case the floors will revert to full on. Go to the control setting screen and change to manual control until the sensor has been put back in adjustment.

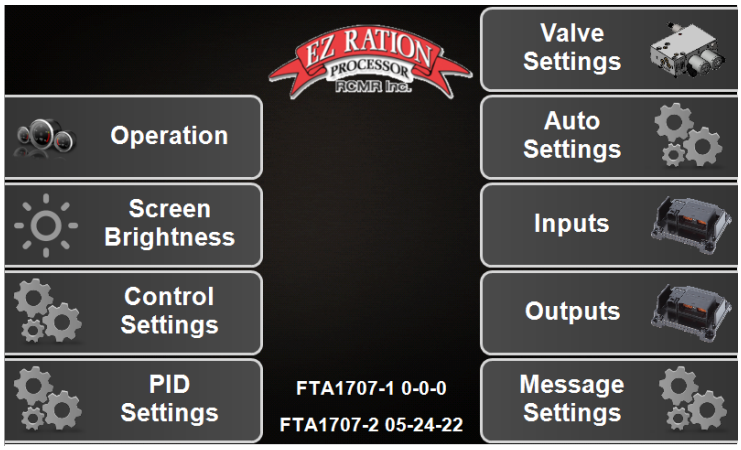
- Touching the + or – buttons will change the inches per minute setting

- The psi number below the Knives, Left Floor, Right Floor indicates the hydraulic pressure currently being used/required by each

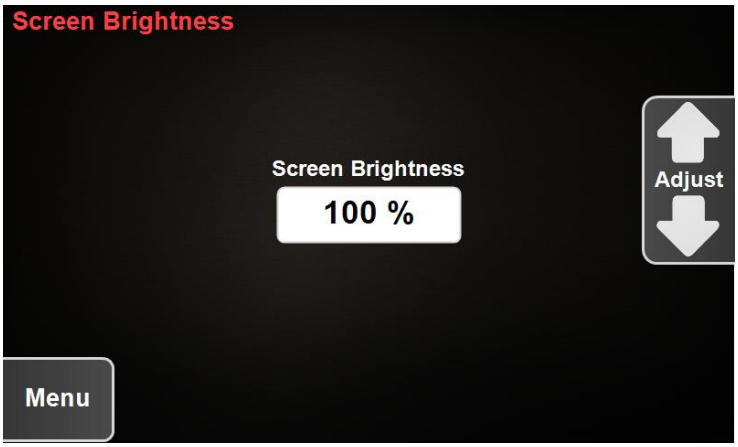


- Touching the Left Floor Reverse or Right Floor Reverse buttons will start that floor moving in reverse and the button will turn red when activated *(the PTO has to be on, but not the discharge conveyor or the knives, to reverse the floors)*

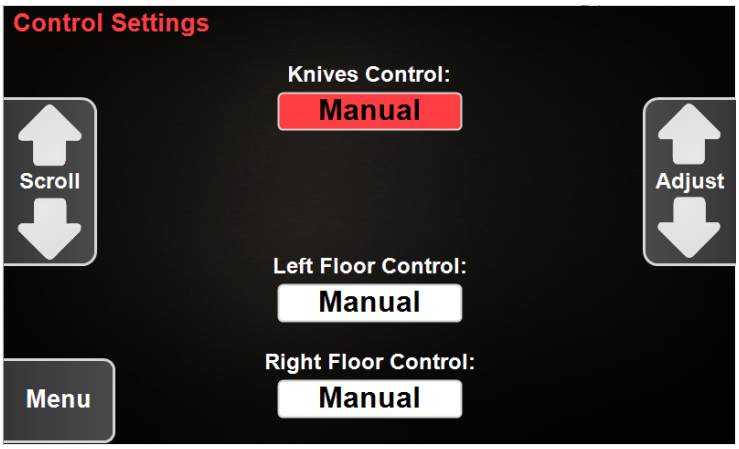
- The window in the upper right corner is a message box to indicate any problems and may tell you what screen to go to for more information on the issue



- Touching the Menu window will take you to the menu screen shown above
- Touching any of the screens listed will take you to that screen
- The letters and numbers in the bottom middle indicate the computer programing operating version you have
- Touching the Screen Brightness window will take you to the screen depicted below

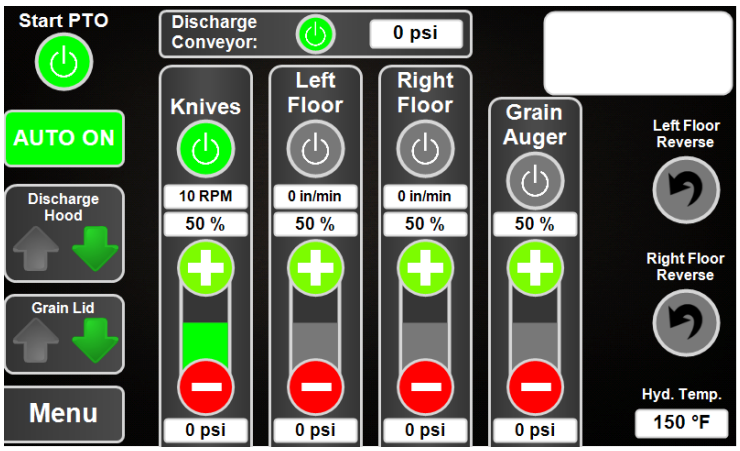


- This screen allows you to adjust the brightness of the screen
- Touching the Menu window will take you to back to the Menu
- Touching the Control Settings window will take you to the screen depicted below

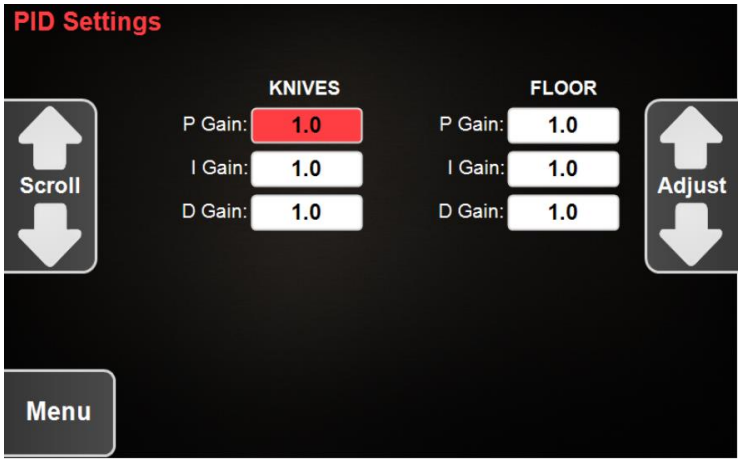


- These setting should be on **Auto** (not manual) which allows the computer to adjust the valve settings and keep the setting as constant as possible through varying engine RPM's

- However, in the rare case that a sensor giving feed back to the computer should malfunction that system will revert to full on. If it is noted that there is a sensor malfunction you should go to the control screen and turn that system controls to manual as depicted in the screen above. This will allow you to control the % of open of the valve manually and the screen will depict the % of on/off like the screen below rather than RPMs or in/min. This allows you to continue feeding with the machine until the bad sensor can be replaced



- Touching the PID Settings window will take you to the screen depicted below

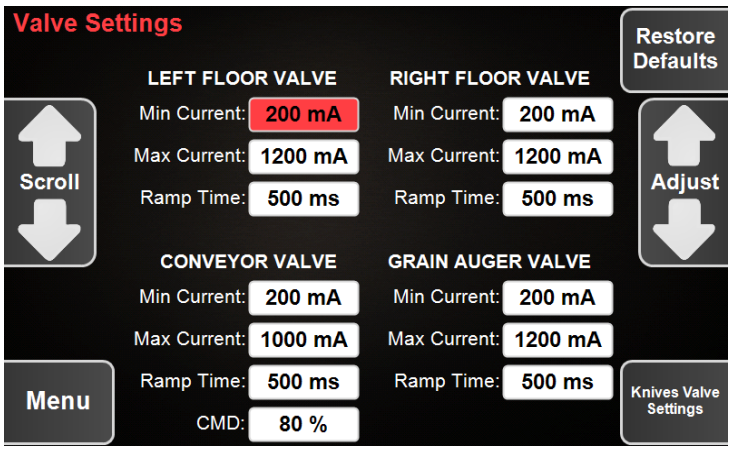


- The PID settings should be the same as depicted above and should not be changed unless recommended by an RCMR, Inc. engineer.

- The PID controller can use the three *control terms* of proportional, integral, and derivative influence on the controller output to apply accurate and optimal control. A PID controller continuously calculates an error value as the difference between a desired setpoint and a measured process variable and applies a correction based on the proportional, integral, and the derivative terms or values.

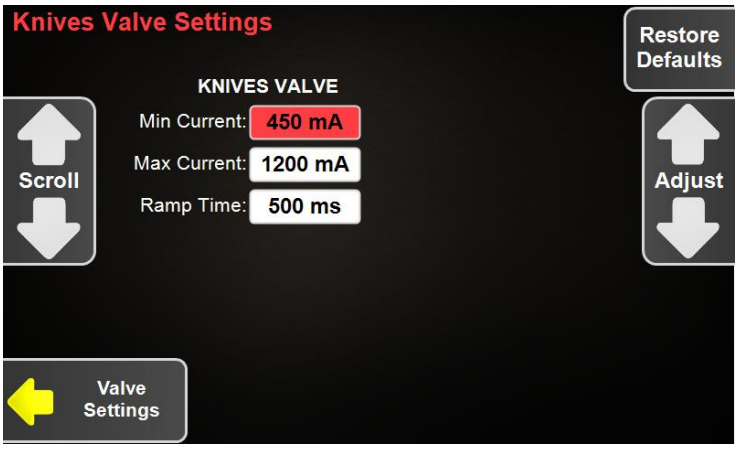
- These settings are use to help the computer automatically adjust the valves settings to maintain a consistent output or speed though out changes in the truck engine RPMs

- The Valve Setting Window/ Button takes you to the screen below

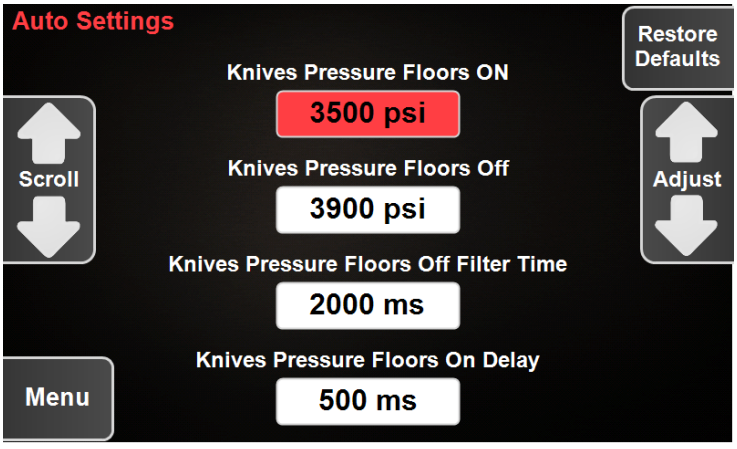


- The Grain Auger Valve Settings will not be present if you do not have a Grain Attachment

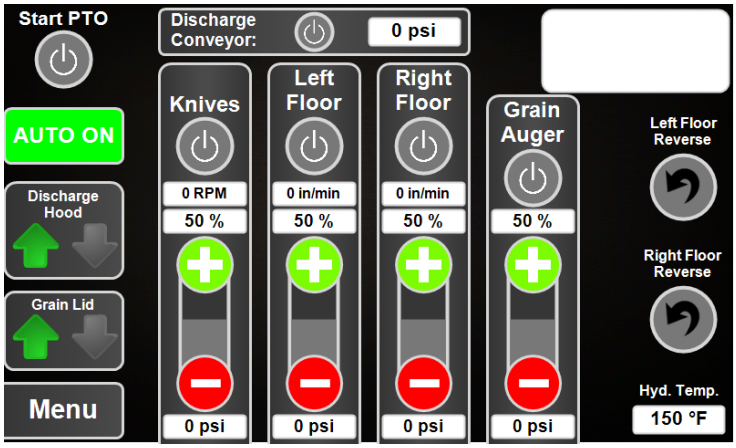
- Touching the Knife Valve Setting Window/Button will take you to the screen below and touching the Knife Valve Setting Window/Button with the arrow will take you back to the screen above



- The Min current setting is the minimal amount of current required to open the valve
- The Max current setting is amount of current required to open the valve fully
- The ramp time is how fast the valve opens or closes. This reduces wear and tare on the components
- The valve setting should be the same as depicted above and should not be changed unless recommended by an RCMR, Inc. engineer.
- The Auto Setting Window/ Button takes you to the screen below



- The Auto On Button on the operation screen depicted below turns this function on



- When the Auto On window is green this fuction is on
- This button performs two functions when it is on/green
- When it is on/green and you turn the PTO or the Discharge Conveyor button off then back on without killing the truck, it Automatically turns on or starts all the other functions that were running or on when you turn it off. i.e., auto-resume
- The second function is that it automatically pauses the floors to not over load the available horse power if the knives are fighting through a tough spot in the hay. As soon as the knives have got through the tough spot and resumed speed and torque the floors will automatically restart.
- The setting for this function should be preset at the factory to the most optimum settings. However, they can be adjusted on the Auto Settings screen shown above
- When the hydraulic pressure required to turn the knife drums reaches the psi depicted in the Knife Pressure Floors Off window for the length of time in

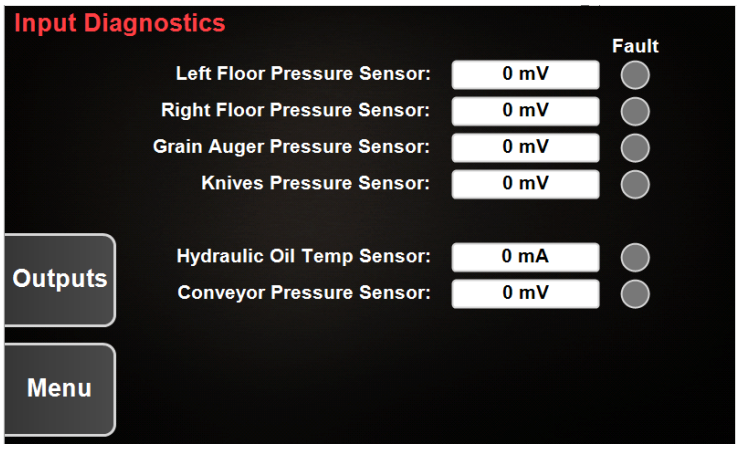
milliseconds depicted in the Knife Pressure Floors Off Filter Time it will stop both floor chains

- When the hydraulic pressure required to turn the knife drums drops to the psi depicted in the Knife Pressure Floors On window for the length of time in milliseconds depicted in the Knife Pressure Floors On Delay it will automatically restart both floor chains

- This is one of our Patent Pending features and can be a huge asset if feeding a feed source that is tough to process. It will automatically pause the floor before stalling the knife drums and restart the floors when the knives have regained the proper speed and torque and are able to resume processing the feed source.

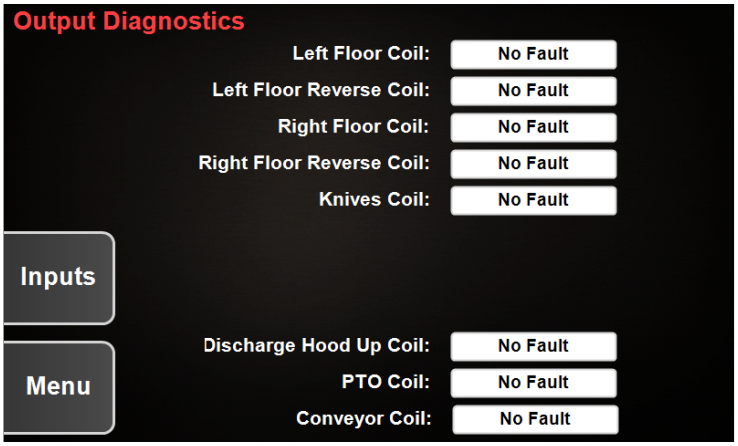
- Hitting the Retore Default window will restore the factory defaults

- The Input Window/ Button takes you to the Diagnostic screen below



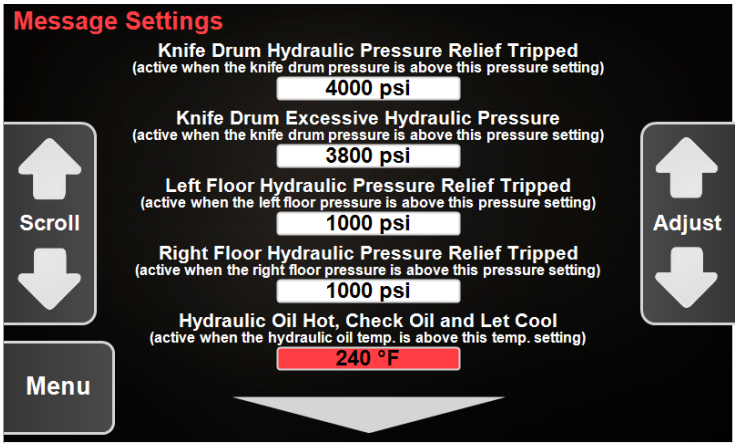
- If there is a defective sensor or a broken wire or connection going to the sensor that provides feedback for any of the functions listed, the fault circle beside that function will be lit up on this screen

- The Output Window/ Button on either the Menu screeen or the Input screen shown above will take you to the Diagnostic screen below

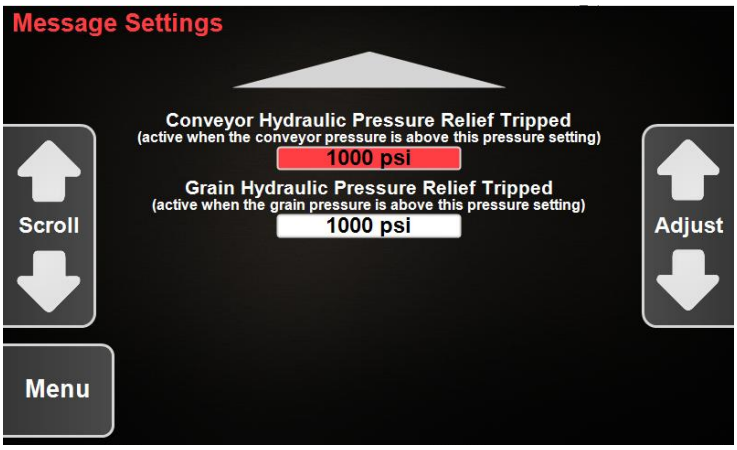


- If there is a bad coil or a broken wire going to the coil on any of the functions listed it will be indicated as an <u>Open Circuit</u> beside that function on this screen
- If an Open Circuit is indicated as a fault, check to make sure there are no broken wires going to the coil in that system and, if there are none, the coil is bad and needs to be replaced

- The Message Setting Window/ Button takes you to the screen below

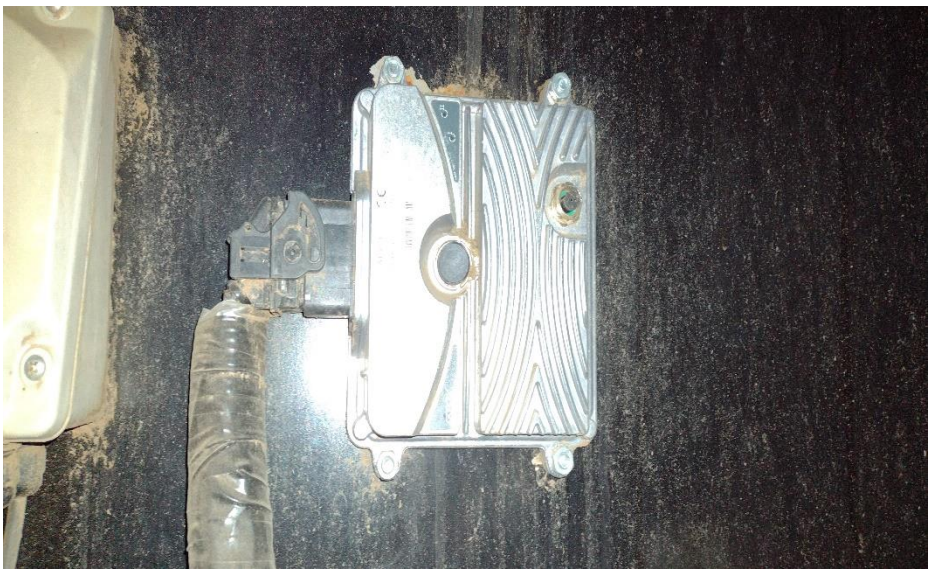


- Touching the down arrow at the bottom of the screen takes you to the screen below (*if you do not have a Grain Attachment that relief pressure setting will not show up on this screen)*



- The settings on these screens are preset to indicate where the relief valves are set to trip in each system and should not be adjusted or the notification that the relief valve was tripped will not correlate with the actual pressure setting on the relief valve in that system

- If you see the Error message above it means the control screen lost connection to the controller mounted on the knife hood. Depicted in the picture below.



- Make sure there are some small lights flashing on the controller (red & Green) if not the controller lost power. Check for a good ground, broken wires or blown fuses.

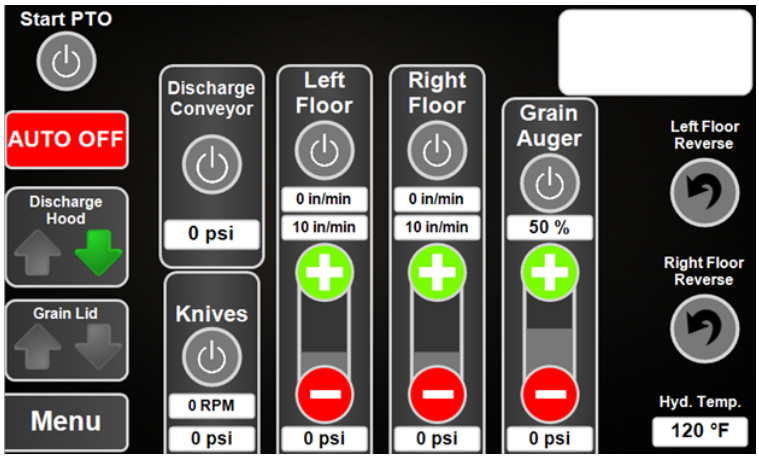
- If there are small flashing lights on the controller then check for broken wires between the control screen and the controller, noting that it could be in the pins in the plug ins.

- The picture below depicts the sensor mounted on the floor drive motors.

- If the reading in the top window on the control screen in the floor column is zero and the floors are on (with a setting above zero), the sensor should be readjusted to be directly under the sprocket (if the sprocket has some wobble when spinning make sure the sensor is positioned in the middle of the wobble) and scary close to the sprocket, - within a fraction of an inch.

- If your sensors did not come with blue lock tight on the threads it is recommended that you put some on them to help maintain the correct positioning.

If you have a later mode the control screen may look like the screen below



- This model would have the knife speed always on high and eliminates a chance they could accidently be turn down while trying to process hay.