



1330 76th Ave SW • Cedar Rapids, IA • 52404-7052
Ph: 319/363-8281 • Fax: 319/286-3351
www.NewLeader.com

Dear Customer:

On behalf of Highway Equipment Company, now doing business as New Leader Manufacturing, we want to thank you for your purchase of your New Leader® equipment.

You are now eligible for our **FREE EXTENDED WARRANTY PROGRAM** provided your dealer completes and returns the DELIVERY & EXTENDED WARRANTY FORM to New Leader Manufacturing within 30 days of delivery.

When your dealer submits the DELIVERY & EXTENDED WARRANTY FORM online, not only will you receive our BASIC (6) six-month genuine parts only warranty; you will also receive, at no charge, an additional (18) eighteen months for a total of (24) twenty-four months of warranty for parts.

As an added bonus for getting the DELIVERY & EXTENDED WARRANTY FORM to New Leader Manufacturing within 30 days of delivery, we will also extend labor coverage at our standard dealer labor reimbursement rate for a period of (24) twenty-four months. Contact your dealer to register and complete the DELIVERY & EXTENDED WARRANTY FORM online at <http://legacy-newleader.highwayequipment.com>.

Thank you for your purchase.

FREE Extended Warranty Program

- 30 days to turn in DELIVERY & EXTENDED WARRANTY FORM
- 24 months on genuine parts
- 24 months labor

This pre-delivery checklist is provided to identify the items checked and, if necessary, adjusted by the dealer prior to delivery of this machine.

CHECK THE FOLLOWING AND ADJUST IF NECESSARY:

Before starting engine/Before starting machine operation

- | | |
|---|--|
| ☐ Battery condition and connection | ☐ Center divider in frame |
| ☐ Electrical connections | ☐ Safety shields in place |
| ☐ Hydraulic oil level and line connections | ☐ All fasteners secure |
| ☐ Gear case oil level (right and/or left) | ☐ Belt tension |
| ☐ Frame mounts adjusted properly | |

Start chassis/Start run to operation temperature

- | | |
|---|---|
| ☐ All gauges operating correctly | ☐ Hydraulic fittings tight no leaks |
| ☐ Engine RPM (operating speed) | ☐ Flow control valve operation |
| ☐ Check operation of all alarms | ☐ Calibrate processor |
| ☐ Check operation of monitor and display | ☐ Test-drive, verify calibration |
| ☐ Hydraulic system functions | ☐ Test manual operation of conveyor & spinners |
| ☐ Pump flow @ OERPM is ____ GPM | ☐ Check belt alignment and chain tension |

Stop operation/Turn off engine, engage parking brake

- ☐ Visual check for leaks ☐ All oil levels full

Inspection performed by: Dealer Signature _____ Date _____

Reviewed the following with the owner:

- ☐ Operations manual ☐ Safety precautions ☐ Storage ☐ Warranty

Customer Signature _____ Date _____

**F
R
E

E

X
T
E
N
D
E
D

W
A
R
R
A
N
T
Y**





1330 76th Ave SW
Cedar Rapids, IA 52404-7052
Phone: (800) 363-1771
www.NewLeader.com

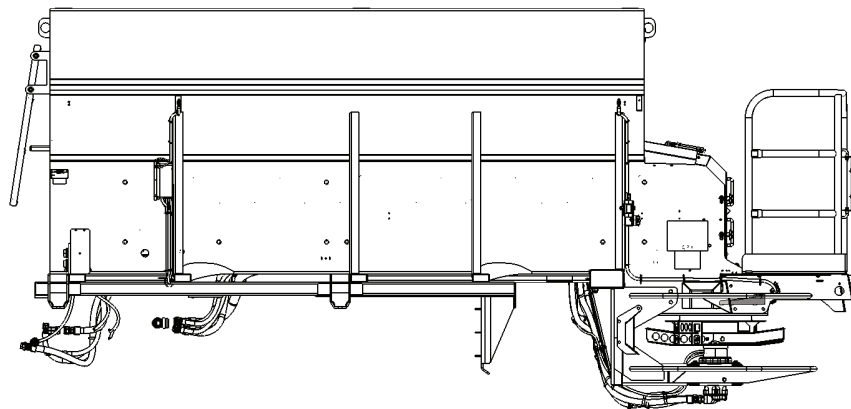
NL720 CNH Trident 5550 Dry High Flow

Parts Manual

Unit Serial No. _____

Manual Number: 323540-D

Effective: 09/2026



Serious injury or death can result from the failure to read, understand, and follow instructions provided in the spreader operator's manual. Before using this equipment, read, understand and follow all instructions in the spreader operator's manual as well as the chassis operator's manual supplied by your chassis manufacturer.

NEW LEADER LIMITED WARRANTY

BASIC WARRANTY

NEW LEADER MANUFACTURING ("New Leader") has manufactured or is distributing the Product/Genuine Parts to which this warranty is attached, and warrants to its original reseller including Dealers, Distributors and Original Equipment Manufacturers (hereafter called Dealer) that the Product/Genuine Parts will, under normal conditions of use and service, be free from material defects due to faulty manufacturing for a period of six (6) months from the date of delivery to the original user. For any Product/Genuine Part that does not conform to the aforesaid warranty within six (6) months from the date of delivery to the original user, your Dealer will, at its option, repair or replace parts. Labor costs for this basic warranty coverage will be paid by New Leader to the Dealer at their standard shop rate, based on the amount of time New Leader establishes to be the time reasonably necessary to make required repairs. If the Product/Genuine Part is defective in materials or workmanship, you must promptly notify your Dealer; and complete the warranty registration by utilizing the internet at <https://heco.my.site.com/DealerPortal> for such Product before the expiration of the warranty period (Genuine Parts do not require a warranty registration but may require proof of purchase). If your Dealer determines that the defect is due to New Leader's material or workmanship, your Dealer will, with New Leader's consent, repair such defect during normal working hours, at their location, or such other location as the Dealer may designate. The installation of any part that did not originate from New Leader will void this Basic Warranty in its entirety. In the event of repair or replacement, the warranty period shall not be extended beyond the original warranty period. In the case of a demonstration or rental machine (Demo), the warranty will begin at the date of delivery to the original user. If the Demo is sold within the first 120 days of the demo or rental period, the warranty will re-start to the date it is delivered to the end user. If the Demo is sold after the 120th day, the warranty will remain at the date of original delivery to the original user.

NEW LEADER EXTENDED WARRANTY

In lieu of the basic warranty described above, if the warranty registration (or warranty information as provided above) is received at New Leader within thirty (30) days after the date of delivery to the original user, New Leader will warrant that the Product will, under normal conditions of use and service, be free from material defects due to faulty manufacturing for a period of twenty-four (24) months from the date of delivery to the original user. For any Product that does not conform to the aforesaid warranty within twenty-four (24) months from the date of delivery, your Dealer will, at its option, send you a new part, or give you full credit for the part, provided the replacement part is purchased through your Dealer. Labor costs for this extended warranty coverage will be paid by New Leader to the Dealer at their standard shop rate, based on the amount of time New Leader establishes to be the time reasonably necessary to make required repairs. If the Product is defective in materials or workmanship, you must promptly notify your Dealer before the expiration of the warranty period. If your Dealer determines that the defect is due to New Leader's material or workmanship, your Dealer will, with New Leader's consent, repair such defect during normal working hours, at their location, or such other location as your Dealer may designate. In the event of repair or replacement, the warranty period shall not be extended beyond the original warranty period. In the case of a Demo, the warranty will begin at the date of delivery to the original user provided the machine is registered with New Leader within 30 days. If the Demo is sold within the first 120 days of the demo or rental period and the machine is registered with New Leader within 30 days of the sale, the extended warranty will re-start to the date it is delivered to the end user. If the Demo is sold after the 120th day and is registered with New Leader within 30 days of the sale, the extended warranty will remain at the date of original delivery to the original user.

Genuine Parts are covered by the Basic Warranty and are not eligible for the Extended Warranty.

If you fail to complete the warranty registration (or warranty information as provided above) to New Leader within thirty (30) days after the date of delivery, the extended warranty shall not apply, and your sole remedy for any defects in the Product shall be under the basic warranty described above. This includes all demo or rental machines.

The above warranties do not cover:

- (1) Product that is damaged by abuse, neglect, accident, or modification;
- (2) fluids, towing, telephone, travel and cleaning cost;
- (3) loss of use of vehicle, inconvenience, commercial loss, or consequential damages;
- (4) any combustion engine; or
- (5) the Product itself if parts are installed on the Product that did not originate from New Leader.
- (6) Labor for Genuine Parts

The above warranties do not apply under the following conditions:

- (1) when Product has been improperly used or installed, or modified, or fitted with sideboards, or fails because of defects or inefficiency of components not furnished with the Product;
- (2) **when Product is used for purposes for which it was not originally designed or intended;**
- (3) when Product is used under abnormal operating conditions; or
- (4) when the dealer or user fails to follow New Leader instructions regarding the Product, including the instruction to install only New Leader supplied parts onto the Product.

NEW LEADER WILL BEAR NO OTHER EXPENSE, INCLUDING BUT NOT LIMITED TO LABOR AND MATERIAL COSTS (OTHER THAN THOSE SPECIFIED HEREIN) OF ANY KIND, AND YOUR EXCLUSIVE REMEDY, IN LIEU OF ALL INCIDENTAL, SPECIAL, CONSEQUENTIAL OR ANY OTHER DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR NEGLIGENCE, IS LIMITED TO REPAIR OR REPLACEMENT AS HERETOFORE DESCRIBED. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED OF ANY KIND REGARDING ANY PRODUCT, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. IN NO CASE SHALL NEW LEADER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY.

Unless modified in writing, signed by both parties, this Limited Warranty is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this Limited Warranty. No representative or agent of New Leader, nor any third party has authority to change or modify this warranty in any respect, nor to assume any other obligation or liability on behalf of New Leader. Any action for breach of warranty must be commenced within six (6) months following the expiration of the Limited Warranty.

These warranties are extended only to the original Dealer and are not transferable. In the event of a warranty claim, you should promptly notify your Dealer and provide the following:

1. Model and serial number of the Product;
2. Date of delivery to the original user;
3. Part number of the defective part;
4. Description of the difficulty encountered;
5. Date of repair.

New Leader will work with your Dealer regarding instructions for repair, replacement, or refund, if the warranty claim can be validated.

Effective with Product delivered to original user on or after August 25, 2014.

Table of Contents

Table of Contents	3	Conveyor	30
Ordering Parts: Instructions.....	4	12' Conveyor Group.....	30
Body	5	Conveyor RH Cartridges	31
Sight Window	5	Conveyor LH Cartridges	32
Mounting Pads	5	Drive Shaft	34
Platform.....	6	Tail Pulley.....	36
Platform Assembly	7	Conveyor Gear Cases.....	38
Screens	8	Gear Case Service Parts.....	39
Slow-Moving Vehicle (SMV) & Speed Identification		Spinners	40
Symbol (SIS).....	9	Spinner Assembly	40
Deflectors	9	Spinner Motor.....	44
SMV - Group	10	Electrical.....	45
Waterfalls	11	Harnesses & Sensors	45
Chutes.....	13	Light Harness Group	49
Chutes - Service Part Kits	14	PDC/ISCO Group	52
Hydraulics.....	15	Decals.....	53
Group Spinners.....	15	Decor Group	53
Spinner Control Valve Hoses (Spreader)	18	Safety Group.....	54
Conveyor Control Valve Hoses (Spreader)	19	Calibration	56
Valve - Assy Spinner Control	21	Spread Pattern Test Kit.....	56
Conveyor Control Valve Assembly	25	Calibration Chutes.....	57
Case Drain Group	26		
Case Drain Mounting Assembly.....	29		

NOTE: The information contained within this manual was current at the time it was published. Some information is subject to change to ensure the best performance of the unit. New Leader Manufacturing reserves the right to make changes in materials or design of the product and its manual at any time without notice.

Check with your Authorized Dealer or call our New Leader Manufacturing (NLM) Product Sales and Support Department at 1-888-363-8006 for the latest version of the manual.



® Order from an AUTHORIZED DEALER in your area.

Ordering Parts: Instructions

When ordering, please always provide the following:

1. The pertinent model and serial number
2. Part name(s), part number(s) and the quantity required
3. The shipping address
4. The preferred carrier, if applicable

Unless claims for shortages or errors are made immediately upon receipt of goods they will not be considered. Any part returns should be directed through the dealer from which they were purchased.

When broken goods are received, a full description of the damage should be made by the carrier agent on the freight bill. If this description is insisted upon, full damage can be collected from the transportation company.

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them, therefore, claims (if any) should be filed with the transportation company and not with New Leader Manufacturing.

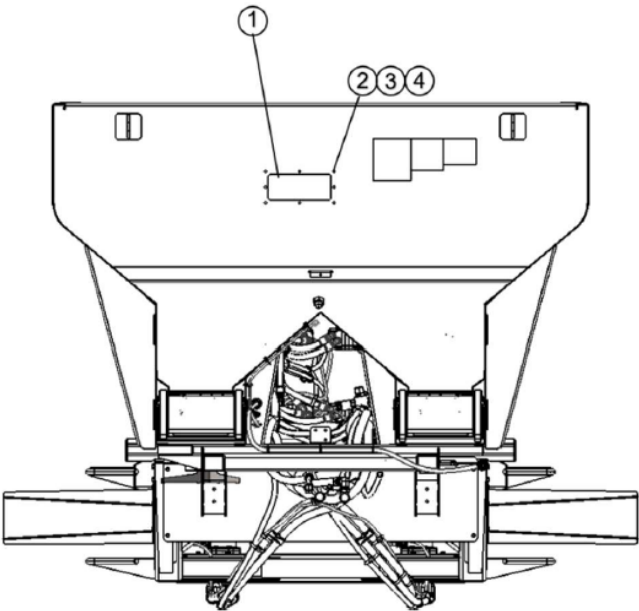
If your claims are not being handled (by the transportation company) to your satisfaction, please call our Product Sales & Support Department at New Leader Manufacturing at (800) 363-1771 for assistance.

In the parts list the following symbols and abbreviations stand for:

- * - Not Shown
- AR – As Required
- CS – Carbon Steel
- SS – Stainless Steel
- NS – Not Serviced

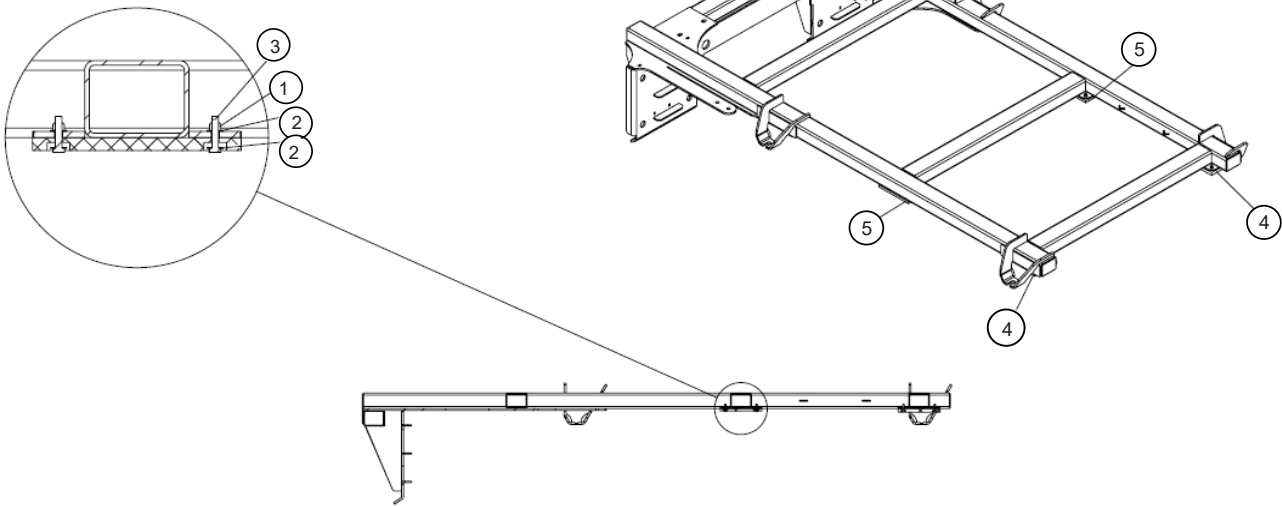
The parts listed under the different steel types (CS, 409 SS and 304 SS) are for that type of unit and do not necessarily mean the part is made of that type of steel.

Body
Sight Window



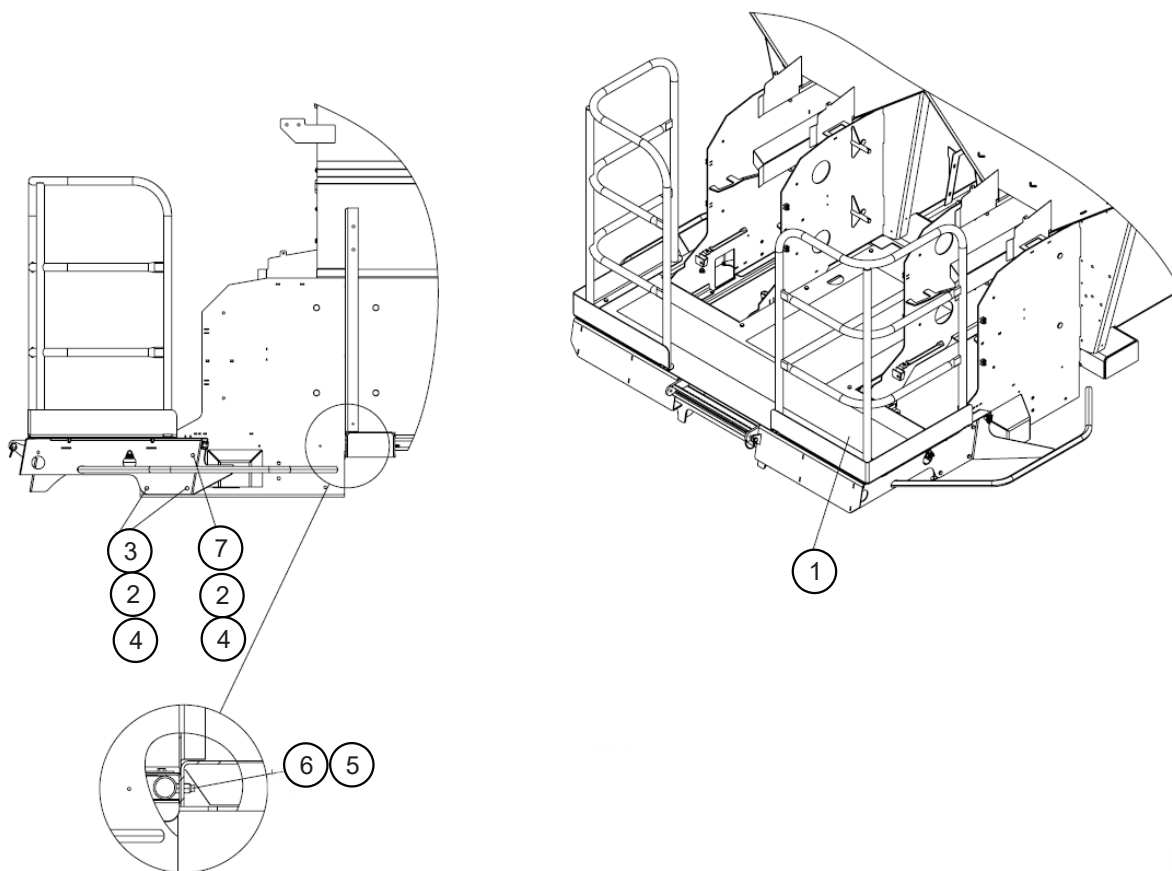
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	302686	Window - Sight 5X12 Plexiglas	1	3	36423	Washer - .25 SS Flat	8
2	36395	Capscrew - .25-20NC X 1 SS	8	4	42034	Nut - .25-20NC SS Lock	8

Mounting Pads



Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	42034	Nut - Lock .25-20NC SS	8	3	40750	Capscrew - .25-20NC X 1.25 SS	8
2	36423	Washer - Flat .25 SS	16	4	313706	Pad - .688 X 6 X 8 POLY	2
				5	313644	Pad - .498 X 6 X 8 POLY	2

Platform



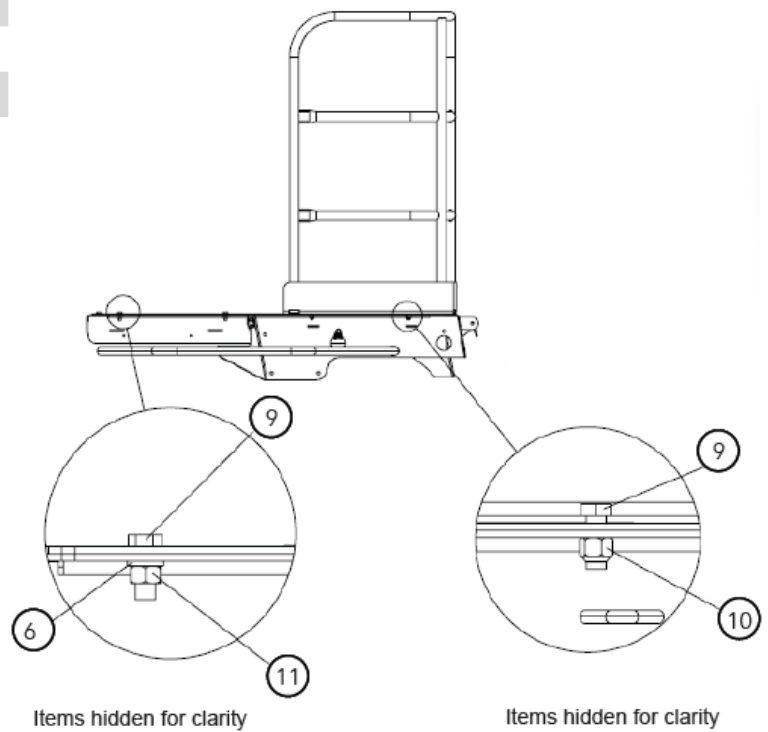
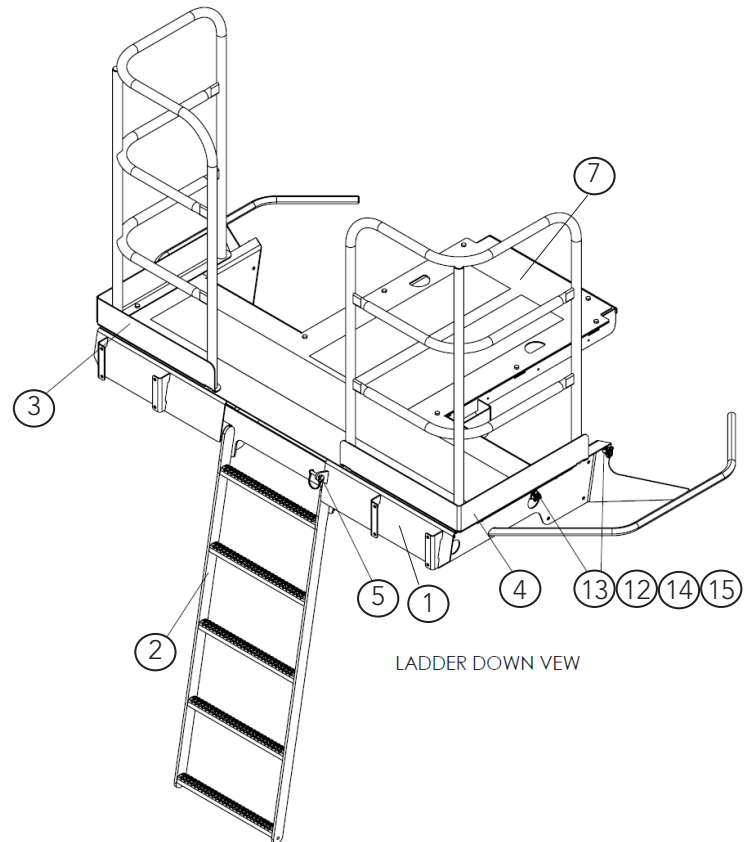
Key	Part No.	Description	Qty
1	324321	Platform - Assy 304	1
2	36425	Washer - Flat .375 SS	14
3	36398	Capscrew - .375-16NC X 1 SS	6
4	36399	Capscrew - .375-16NC X 1.25 SS	4

Key	Part No.	Description	Qty
5	72054	Nut - Lock .375-16NC SS	10
6	39016	Nut - Lock .5-13NC SS	2
7	36402	Capscrew - .5-13NC X 1.25 SS	2

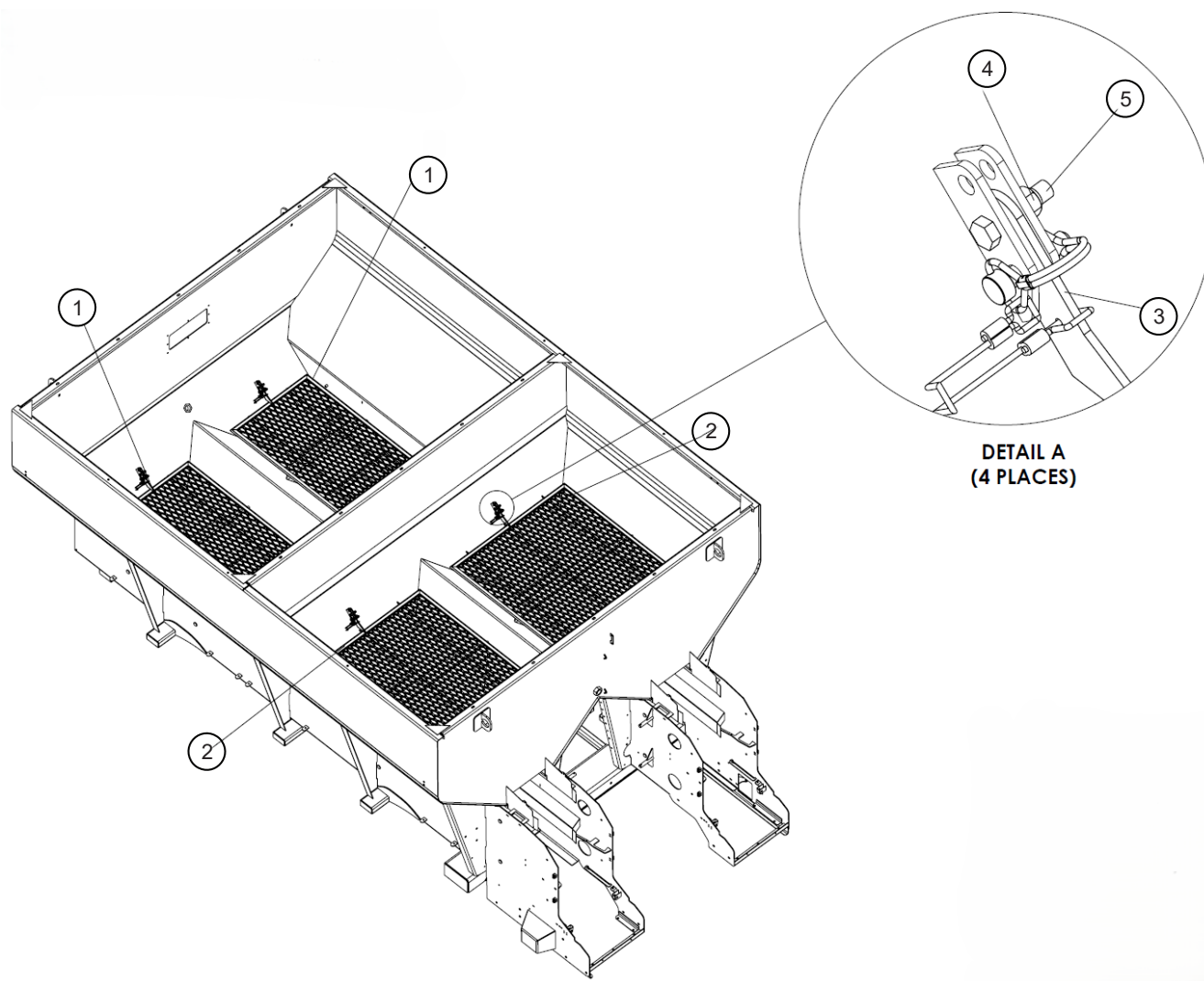
Platform Assembly

Key	Part No.	Description	Qty
	324321	Platform - Assy 304	1
1	324322	Platform - Wldmt 304	1
2	321467	Ladder - Wldmt 18 304	1
3	322760	Railing - Wldmt Platform LH 304	1
4	322764	Railing - Wldmt Platform RH 304	1
5	311732	Pin - Lock .375 X 1.375 SS	1
6	36420	Washer - Lock .375 SS	6
7	322788	Panel - Top 304	1
8	21699	Skid Fabric - 8 *NOT SHOWN*	10
9	36398	Capscrew - .375-16NC X 1 SS	16
10	72054	Nut - Lock .375-16NC SS	10
11	36414	Nut - Hex .375-16NC SS	6
12	312964	Clip - Harness Mounting	4
13	300458	Capscrew - .313-18NC X .875 SS	4
14	36424	Washer - Flat .313 SS	4
15	42221	Nut - Lock .313-18NC SS	4

* Not shown

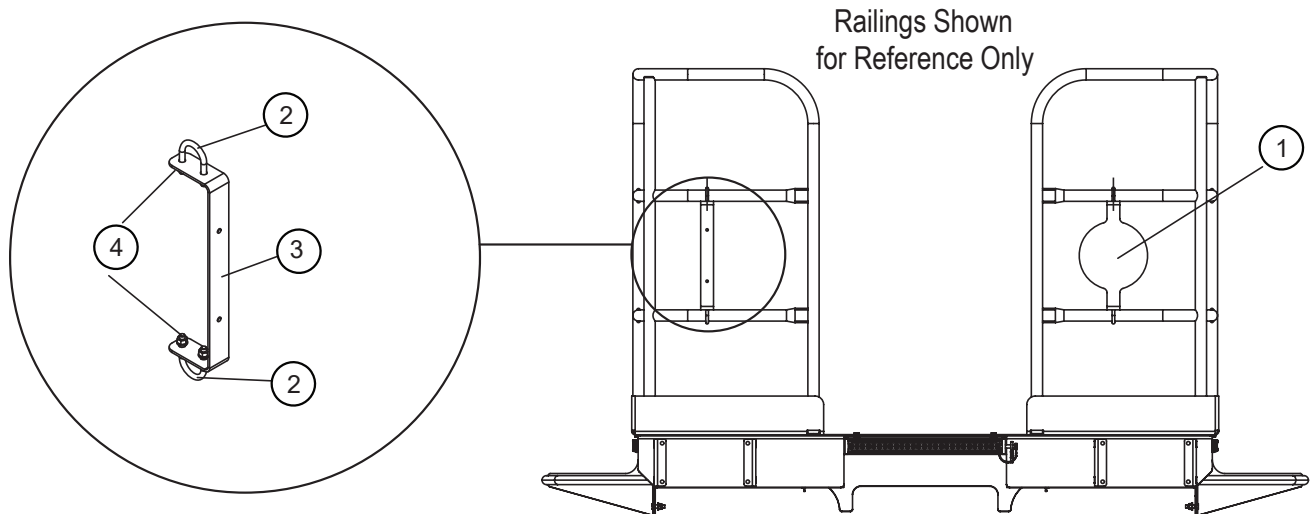


Screens



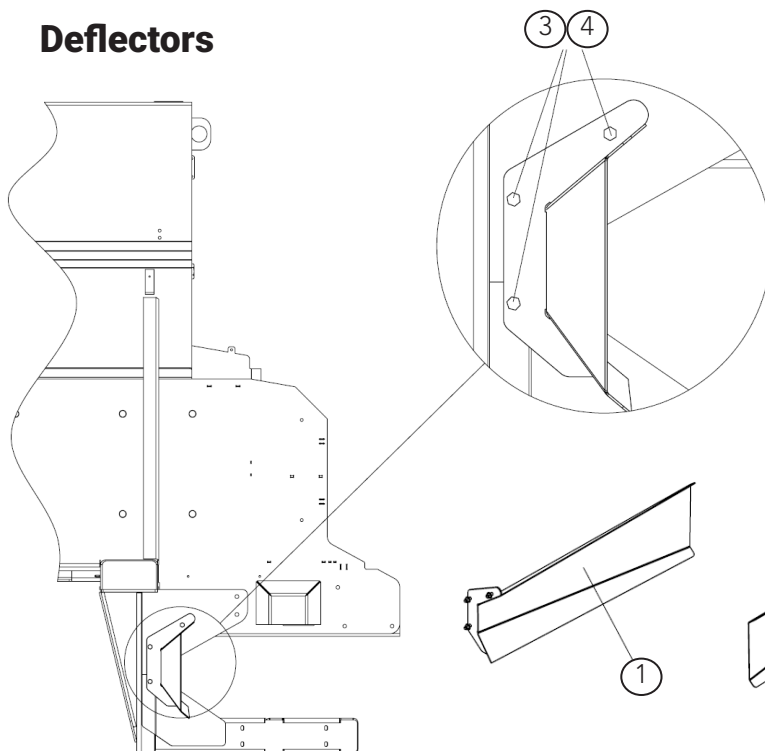
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	324663	Screen - 24.22 X 63.28 304	2	-	322464	Pin - Lock .375 X 1.125 SS	1
2	324809	Screen - 36.19 X 52.26 304	2	-	311731	Cable - .094 X 12 Coated SS	1
3	324894	Latch - Assy Screen 304	4	-	317522	Sleeve - Aluminum .094 X .50	2
-	324890	Plate - Screen 304	1	4	72054	Nut - Lock .375-16NC SS	4
				5	34858	Capscrew - .375-16NC X 1.5 SS	4

Slow-Moving Vehicle (SMV) & Speed Identification Symbol (SIS)

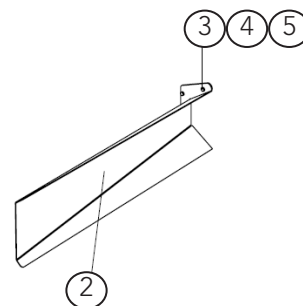


Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	321936	Mount - SIS Railing 304	1	3	321946	Mount - SMV Railing 304	1
2	321937	Bolt - .31-18 X 1.375ID 304	4	4	36419	Washer - .313 SS Lock	8

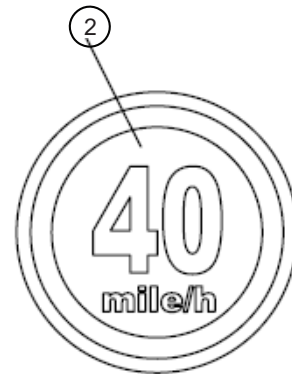
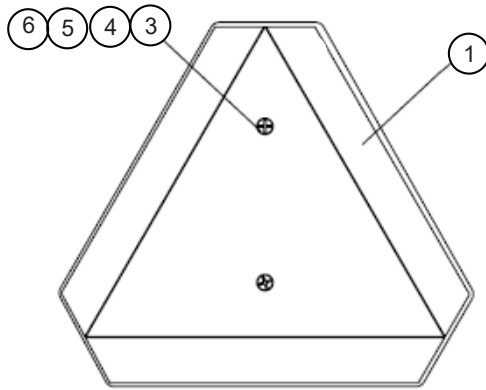
Deflectors



Key	Part No.	Description	Qty
1	322738	Deflector - Wldmt RH 304	1
2	322739	Deflector - Wldmt LH 304	1
3	36399	Capscrew - .375-16UNC X 1.25	6
4	72054	Nut - Lock .375-16UNC 304	6
5	36425	Washer - Flat .375 304	6

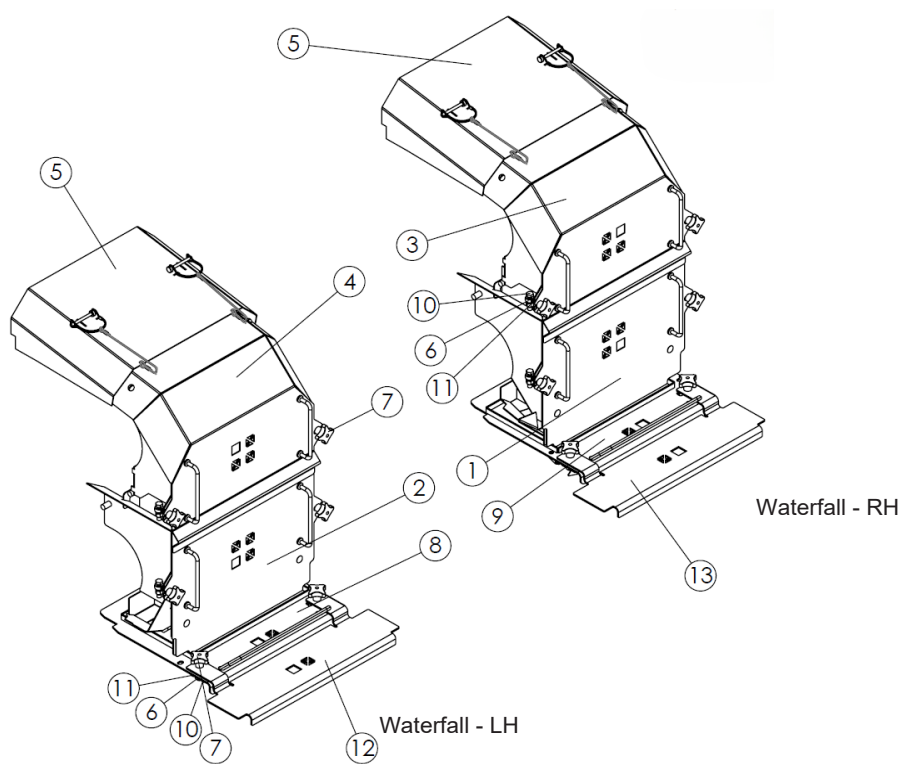
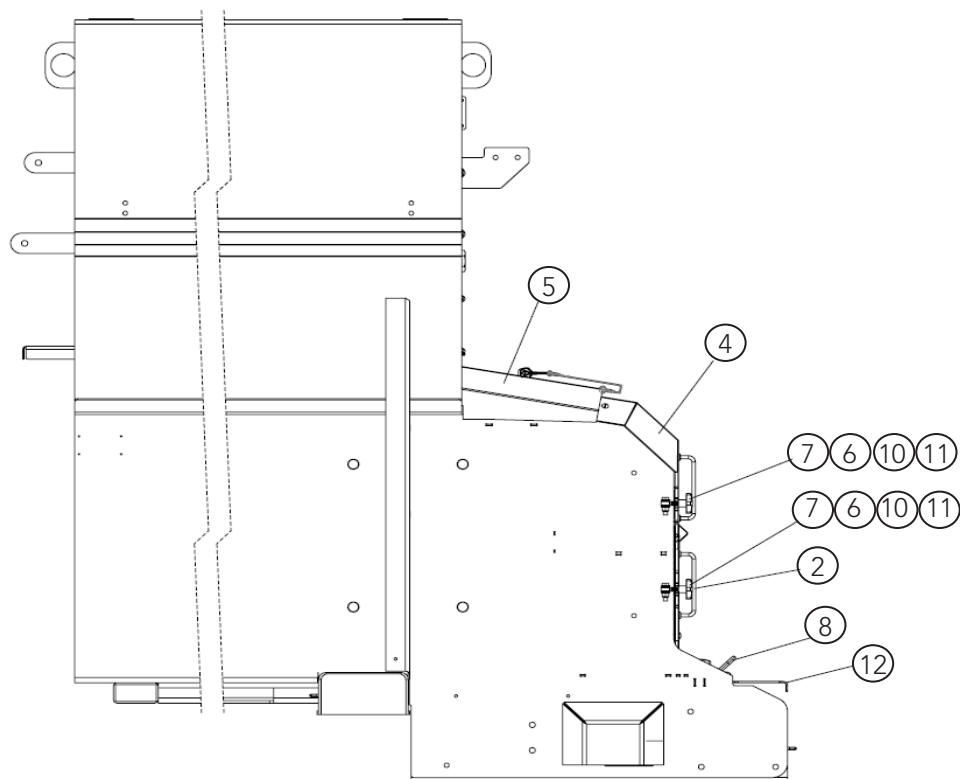


SMV - Group



Key	Part No.	Description	Qty
1	305229	Sign - S.M.V.	1
2	313926	Decal - 40 MILE/H	1
3	36418	Washer - Lock .25 SS	2
4	36412	Nut - Hex .25-20NC SS	2
5	32446	Screw - Truss Head .25-20NC X .75	2
6	36423	Washer - Flat .25 SS	2

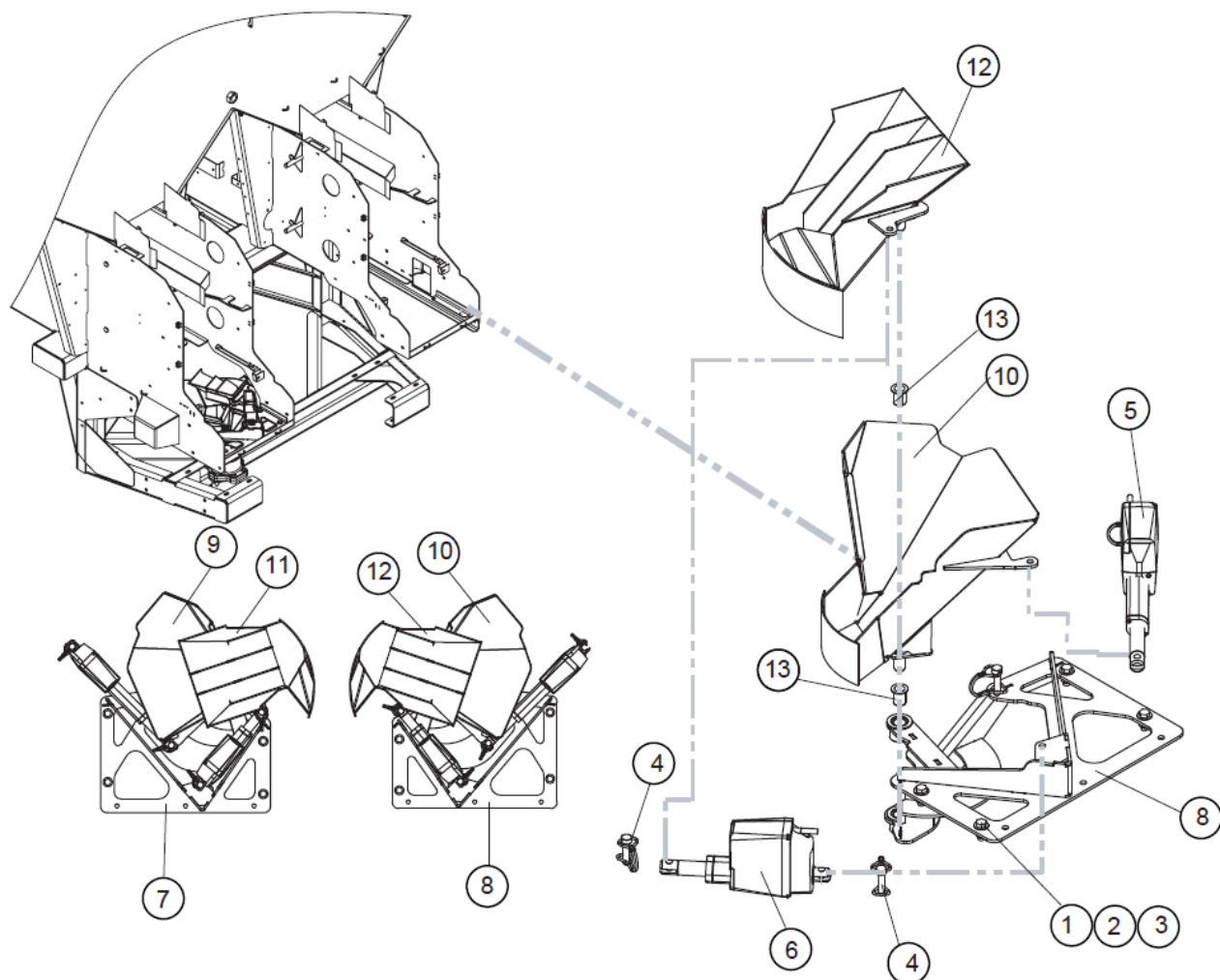
Waterfalls



Waterfalls, contd.

Key	Part No.	Description	Qty
1	321561	Waterfall - Assy Bottom RH 304	1
2	321563	Waterfall - Assy Bottom LH 304	1
3	321560	Waterfall - Assy Top RH 304	1
4	321562	Waterfall - Assy Top LH 304	1
5	321727	Cover - Assy Conv Waterfall	2
-	321726	Cover - Conv Waterfall	1
-	311731	Cable - .094 X 12 Coated SS	2
-	308085	Ferrule - .185 X .374	4
-	313790	Pin - Lock .25 X 2.50 SS	2
6	321739	Eye Bolt - Tie Down 304	12
7	321740	Knob - Tie Down 304	12
8	321778	Chute - Wldmt Upper LH 304	1
9	321779	Chute - Wldmt Upper RH 304	1
10	34858	Capscrew - .375-16NC X 1.5 SS	12
11	72054	Nut - Lock .375-16NC SS	12
12	324368	Platform - Guard LH 304	1
13	324369	Platform - Guard RH 304	1

Chutes



Key	Part No.	Description	Qty
1	36398	Capscrew - .375-16NC X 1 SS	8
2	36425	Washer - .375 SS Flat	8
3	72054	Nut - .375-16NC SS Lock	8
4	322464	Pin - Lock .375 X 1.125 SS	8
5	320881	Actuator - 150mm (with harness)	2
6	320882	Actuator - 75 mm (with harness)	2
7	322287	Chute - Wldmt Mount Lower LH	1

Key	Part No.	Description	Qty
8	322286	Chute - Wldmt Mount Lower RH	
9	322447*	Chute - Wldmt Inner LH 304	1
10	322446*	Chute - Wldmt Inner RH 304	1
11	321667*	Chute - Wldmt Outer LH 304	1
12	321676*	Chute - Wldmt Outer RH 304	1
13	321733	Bearing - Flange .625 X 1.0	4

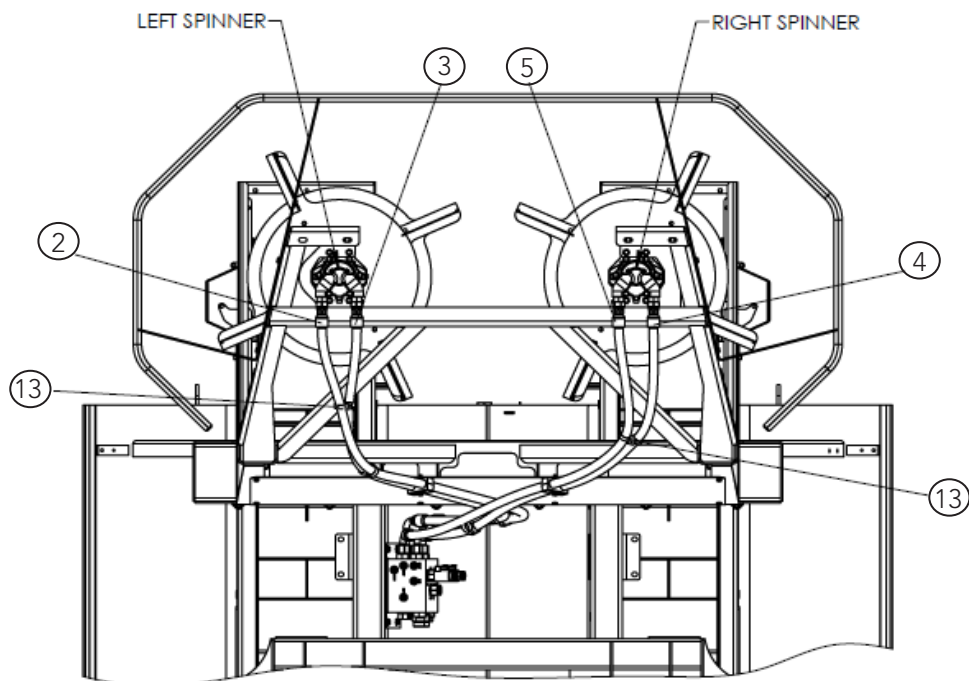
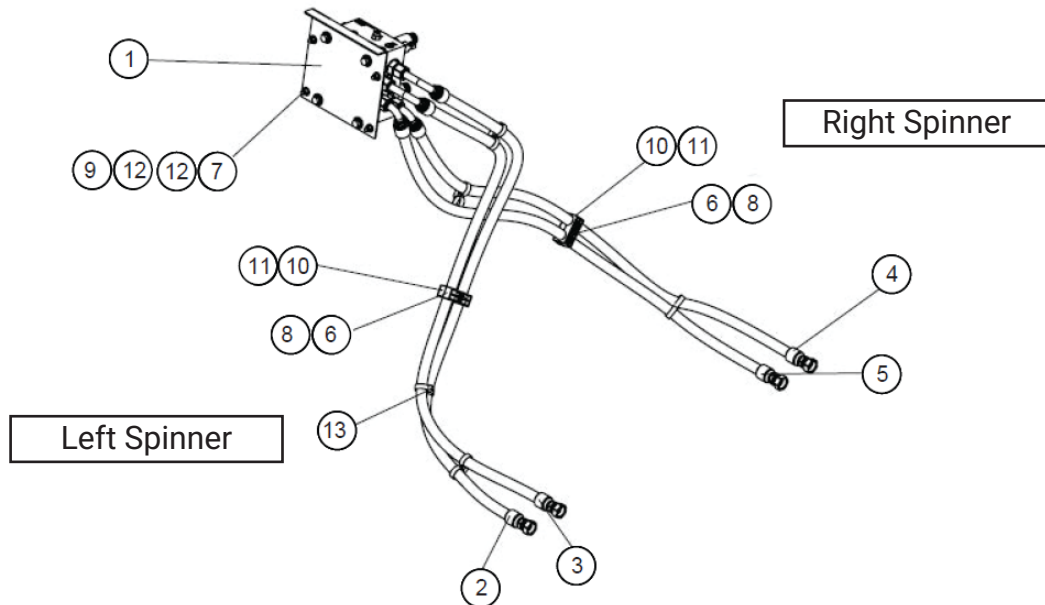
* - Service Part Kits available. See next page.

Chutes - Service Part Kits

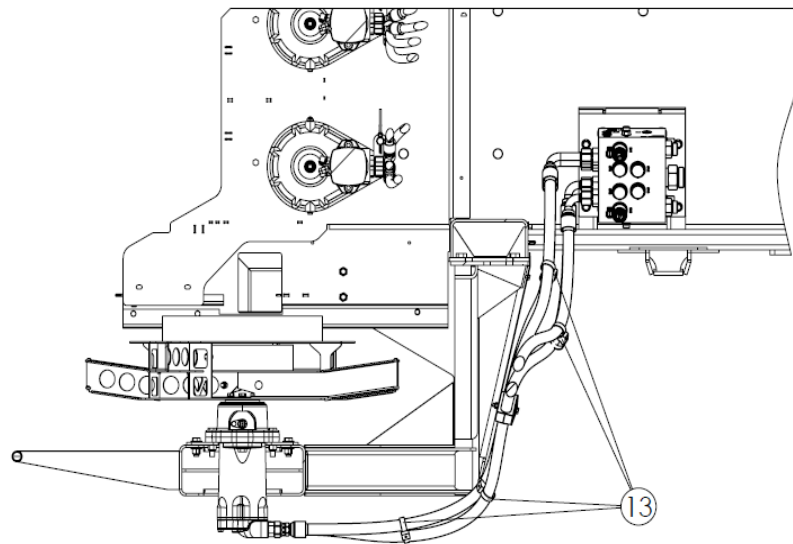
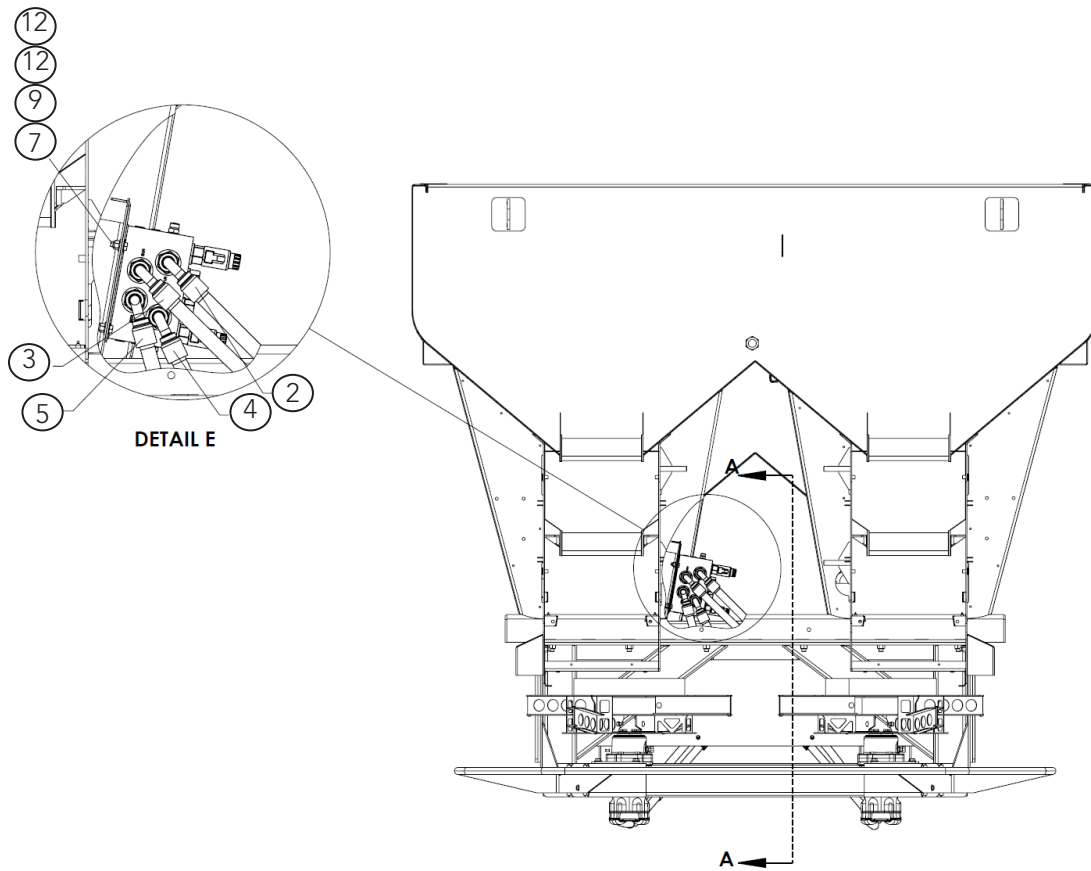
Key	Part No.	Description	Qty
1	325902	Chute - Kit Inner LH	
-	322447	Chute - Wldmt Inner LH 304	1
-	321733	Bearing - Flange .625 X 1.0	1
2	325903	Chute - Kit Inner RH	
-	322446	Chute - Wldmt Inner RH 304	1
-	321733	Bearing - Flange .625 X 1.0	1
3	325904	Chute - Kit Outer LH	
-	321667	Chute - Wldmt Outer LH 304	1
-	321733	Bearing - Flange .625 X 1.0	1
4	325905	Chute - Kit Outer RH	
-	321676	Chute - Wldmt Outer RH 304	1
-	321733	Bearing - Flange .625 X 1.0	1

Hydraulics

Group Spinners

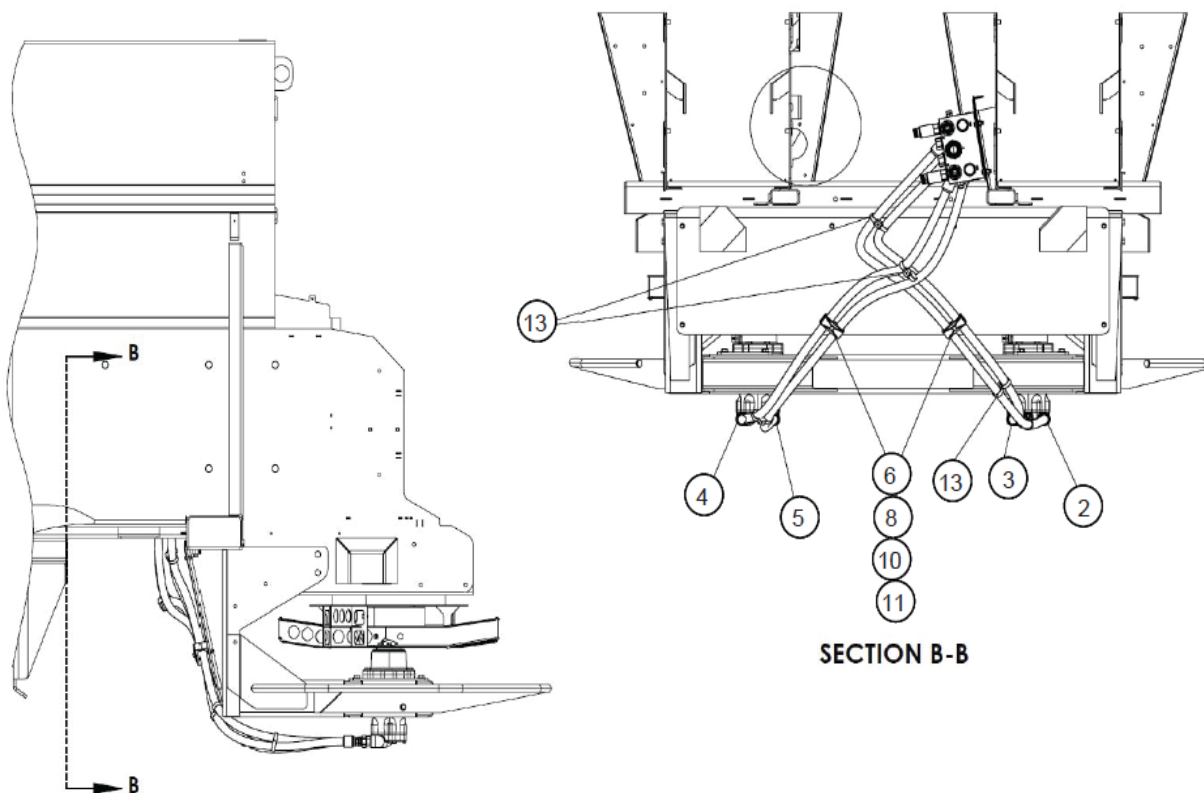


Hydraulics, contd.



SECTION A-A

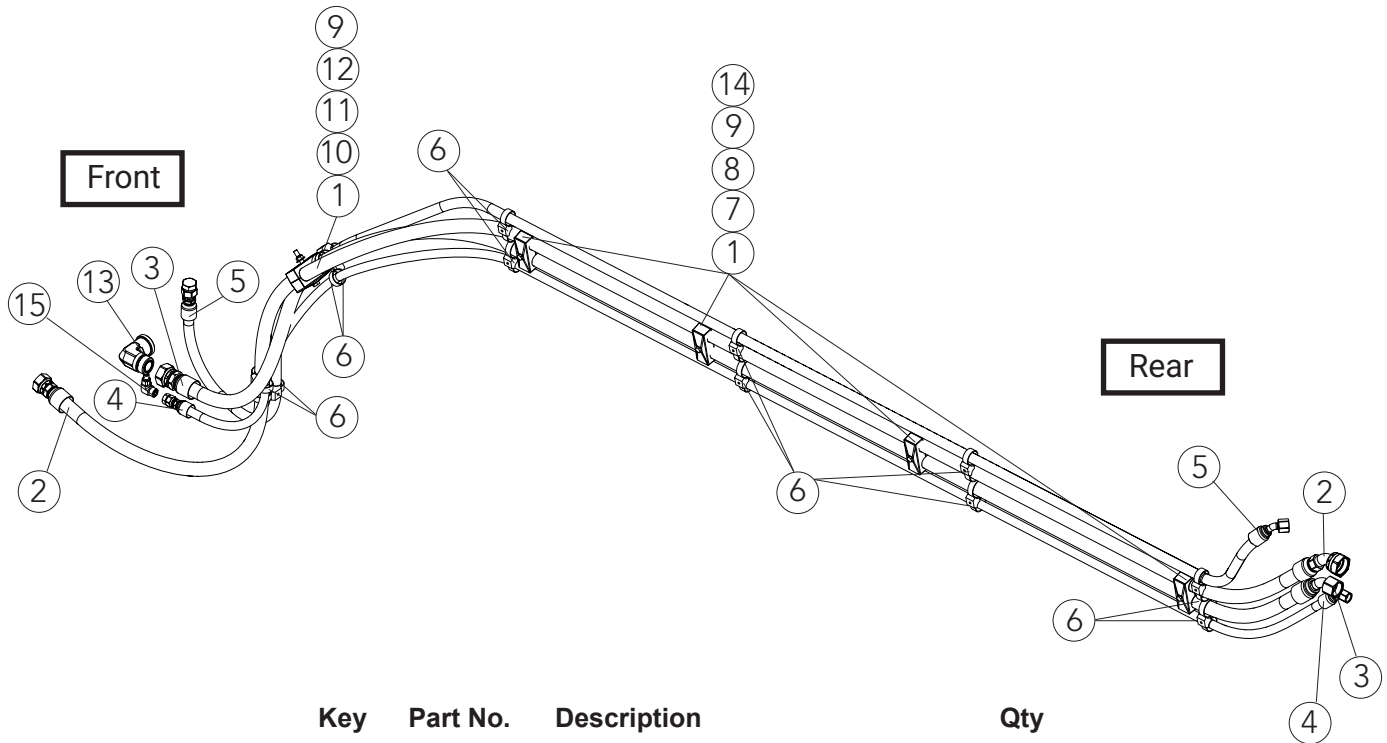
Hydraulics, contd.



Key	Part No.	Description	Qty
1	323645	Valve - Assy Mounting Spinner *See page 21 for breakdown*	1
2	321696	Hose - Assy .75 x 65 100R12	1
3	321697	Hose - Assy .75 x 62 100R12	1
4	321698	Hose - Assy .75 x 63 100R12	1
5	321699	Hose - Assy .75 x 64.5 100R12	1
6	71830	Capscrew - .313-18NC x 2.5 SS	2
7	36398	Capscrew - .375-16NC x 1 SS	4

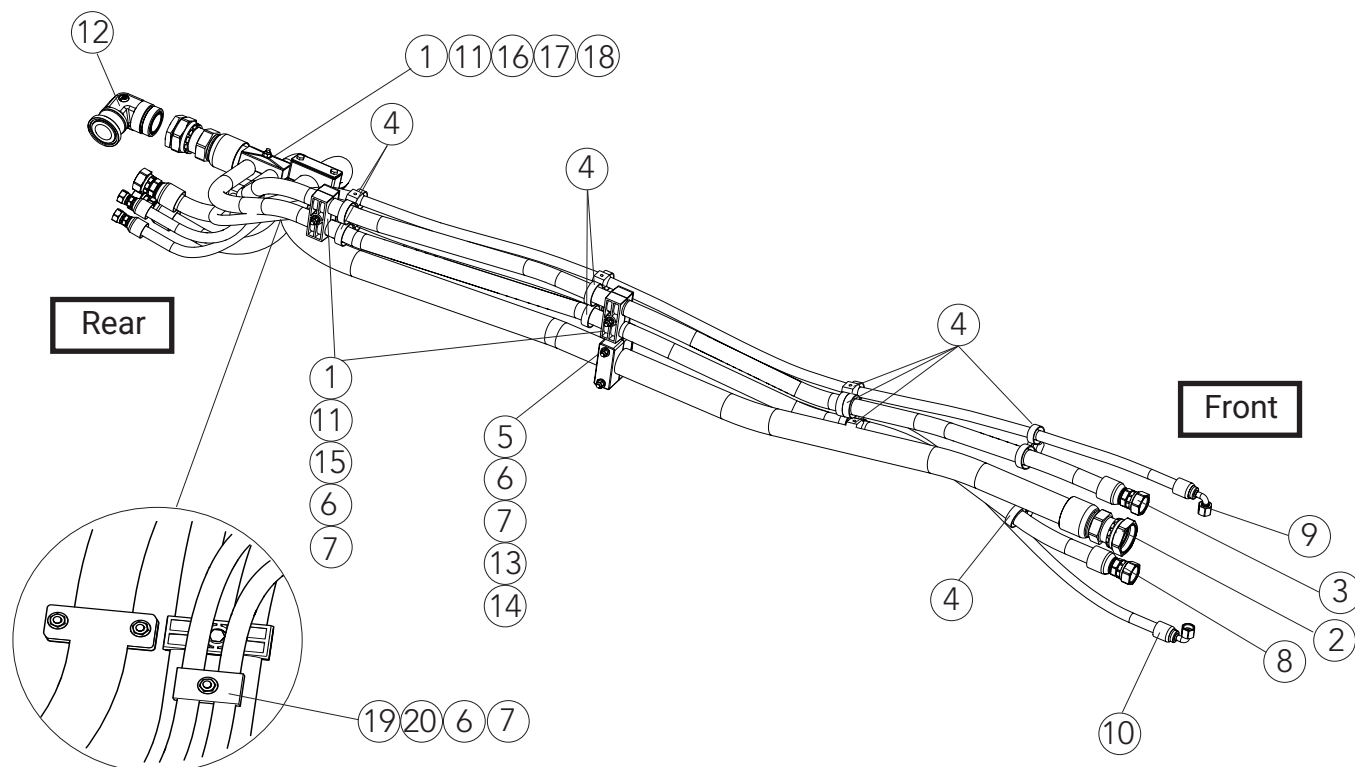
Key	Part No.	Description	Qty
8	42221	Nut - Lock .313-18NC SS	2
9	72054	Nut - Lock .375-16NC SS	4
10	315721	Clamp - Tubing Twin 1.10"	2
11	305267	Plate - Cover Hose Clamp 304	2
12	36425	Washer - Flat .375 SS	8
13	310648	Tie - Dual Clamp	5

Spinner Control Valve Hoses (Spreader)

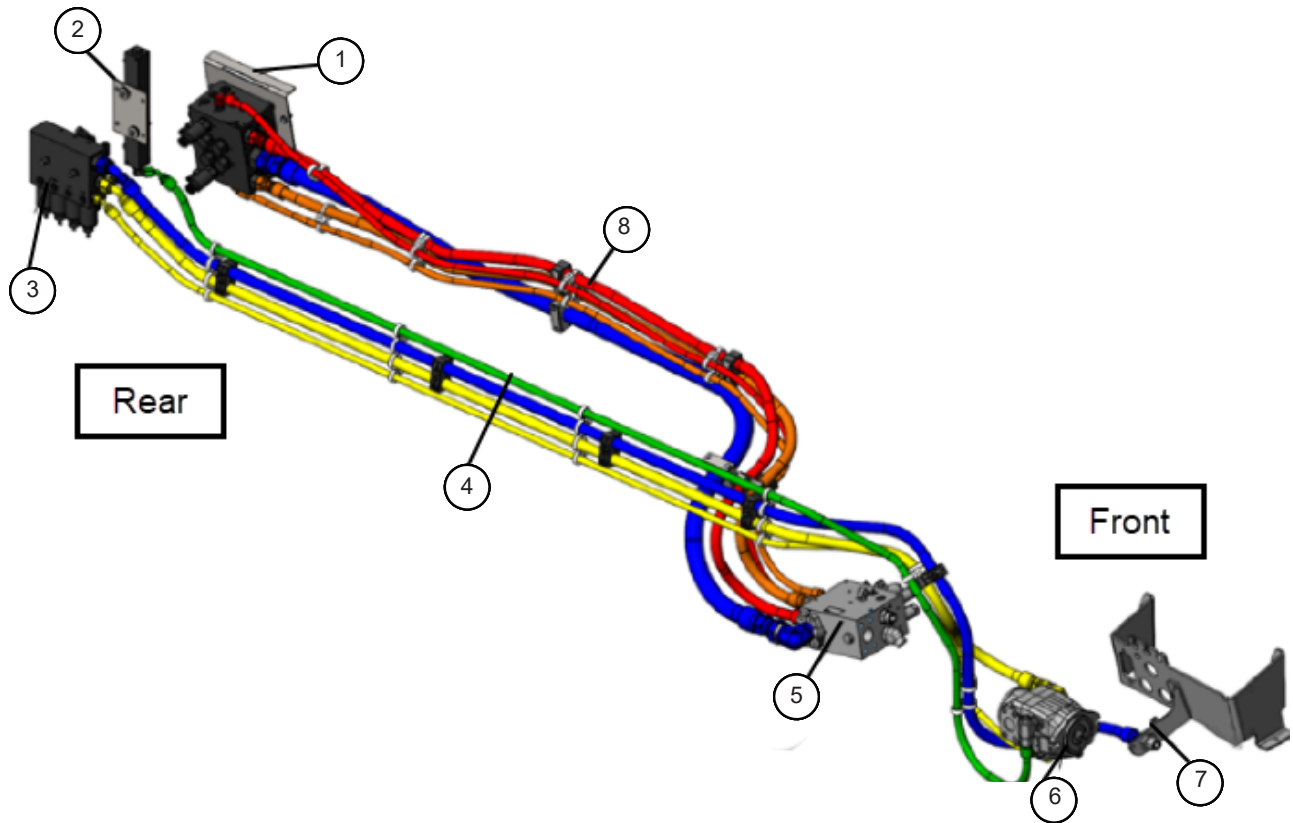


Key	Part No.	Description	Qty
1	315721	Clamp - Tubing Twin 1.10"	5
2	323489	Hose - Assy .75 X 147.5 100R19	1
3	323490	Hose - Assy .75 X 128.5 100R19	1
4	323487	Hose - Assy .375 X 132.5 100R19	1
5	323492	Hose - Assy .5 X 138.0 100R19	1
6	312665	Tie - Dual Clamp	12
7	42034	Nut - Lock .25-20NC SS	4
8	36423	Washer - Flat .25 SS	4
9	305267	Plate - Cover Hose Clamp 304	5
10	36424	Washer - Flat .313 304	1
11	42221	Nut - Lock .313-18NC SS	1
12	96258	Capscrew - .313-18NC X 3 SS	1
13	324120	Fittings - Kit Hydraulic NL720 CNH	1
14	34501	Capscrew - .25-20NC X 2.5 SS	4
15	313465	Fitting - 6-4 520220	1

Conveyor Control Valve Hoses (Spreader)

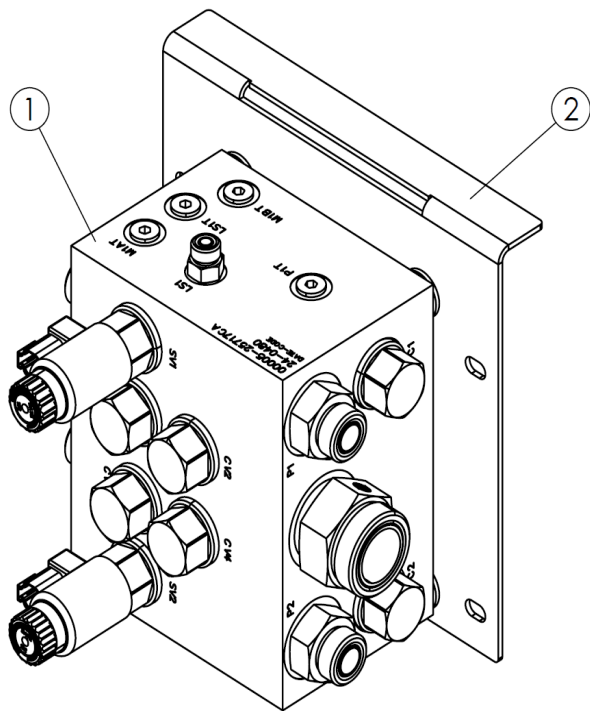


Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	315721	Clamp - Tubing Twin 1.10"	3	11	305267	Plate - Cover Hose Clamp 304	3
2	323491	Hose - Assy 1.25 X 95.6 100R1	1	12	324119	Fitting - Elbow 90° Code 61	1
3	323488	Hose - Assy .75 X 101.6 100R19	1	13	308165	Clamp Pair - 1.75" Tube	2
4	312665	Tie - Dual Clamp	10	14	308164	Plate - Cover Clamp 1.75 OD Tube Hyd SS	2
5	56396	Capscrew - .25-20NC X 3.25 SS	4	15	34501	Capscrew - .25-20NC X 2.5 SS	2
6	42034	Nut - Lock .25-20NC SS	7	16	96258	Capscrew - .313-18UNC X 3	1
7	36423	Washer - Flat .25 SS	7	17	42221	Nut - Lock .313-18UNC 304	1
8	323654	Hose - Assy .75 X 97.0 100R19	1	18	36424	Washer - Flat .313 304	1
9	323646	Hose - Assy .375 X 105.0 100R19	1	19	305410	Clamp - Tube Twin .625	1
10	323647	Hose - Assy .375 X 100 100R19	1	20	308112	Capscrew - .25-20UNC X 2 304	1

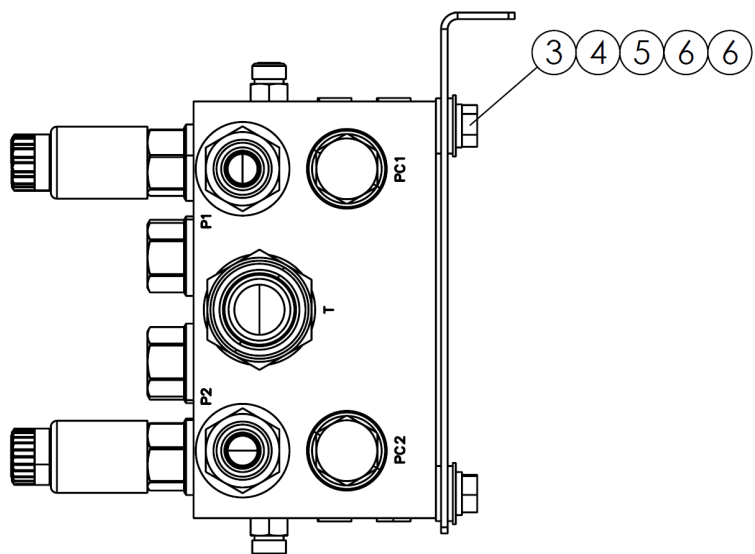


Key	Description	Refer to Page #
1	Spinner Control Valve (Spreader)	21-22
2	Case Drain	26-29
3	Conveyor Control Valve (Spreader)	23-25
4	Conveyor Control Valve Hoses (Spreader)	19
5	Spinner Valve (Chassis)	Refer to Chassis Manual
6	Hydraulic Pump (Chassis)	Refer to Chassis Manual
7	Bulkhead (Chassis)	Refer to Chassis Manual
8	Spinner Control Valve Hoses (Spreader)	18

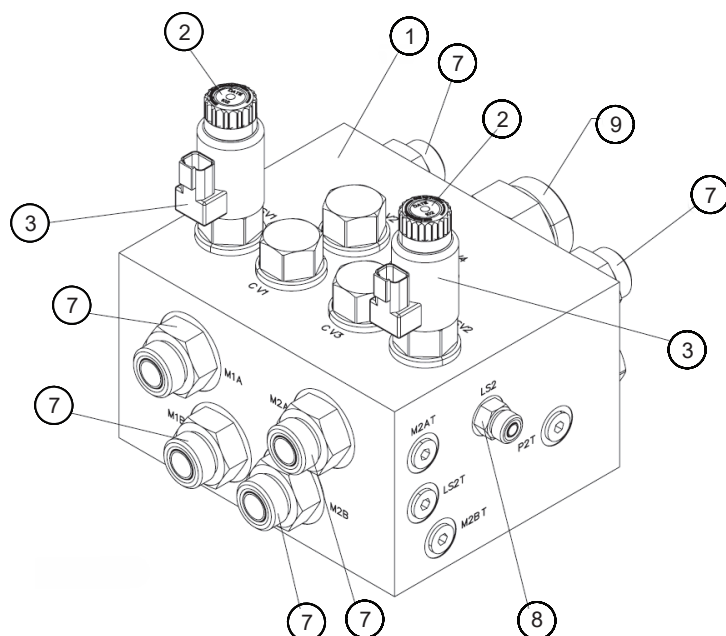
Valve - Assy Spinner Control



Key	Part No.	Description	Qty
1	323644	Valve - Assy Spinner Control	1
2	322934	Plate - Mount Valve 304	1
3	89521	Capscrew - .5-13NC X 1 GR8	4
4	36422	Washer - Lock .5 SS	4
5	36426	Washer - Flat .5 SS	4
6	321715	Washer - Step .638 ID X .875 OD	8



Valve - Assy Spinner Control



Key	Part No.	Description	Qty
-----	----------	-------------	-----

1	323644	Valve - Assy Spinner Control	1
---	--------	------------------------------	---

2	322372	Valve - Flow Control 60GPM	2
---	--------	----------------------------	---

3	317382	Coil - 12 VDC Deutsch	2
---	--------	-----------------------	---

4	322368	Valve - Check 50PSI	2
---	--------	---------------------	---

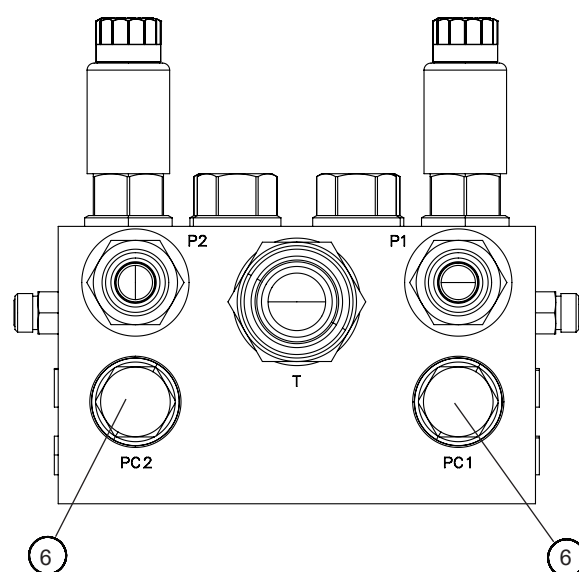
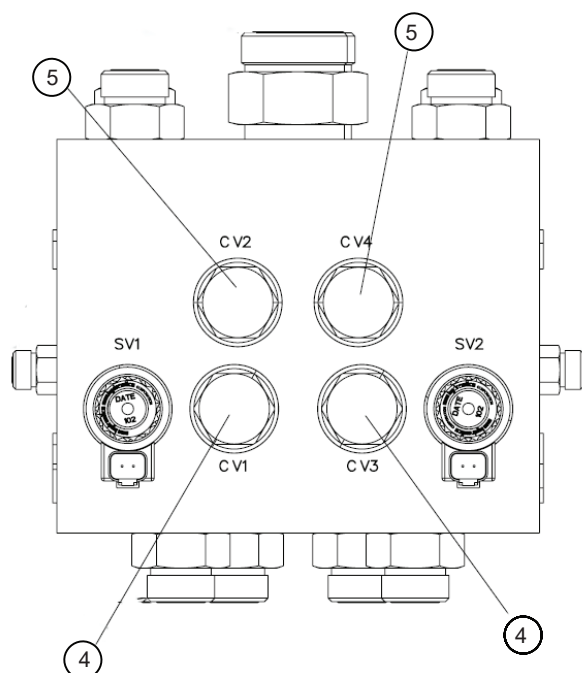
5	322369	Valve - Check 100PSI	2
---	--------	----------------------	---

6	322371	Valve - Normally Open Modulating	2
---	--------	----------------------------------	---

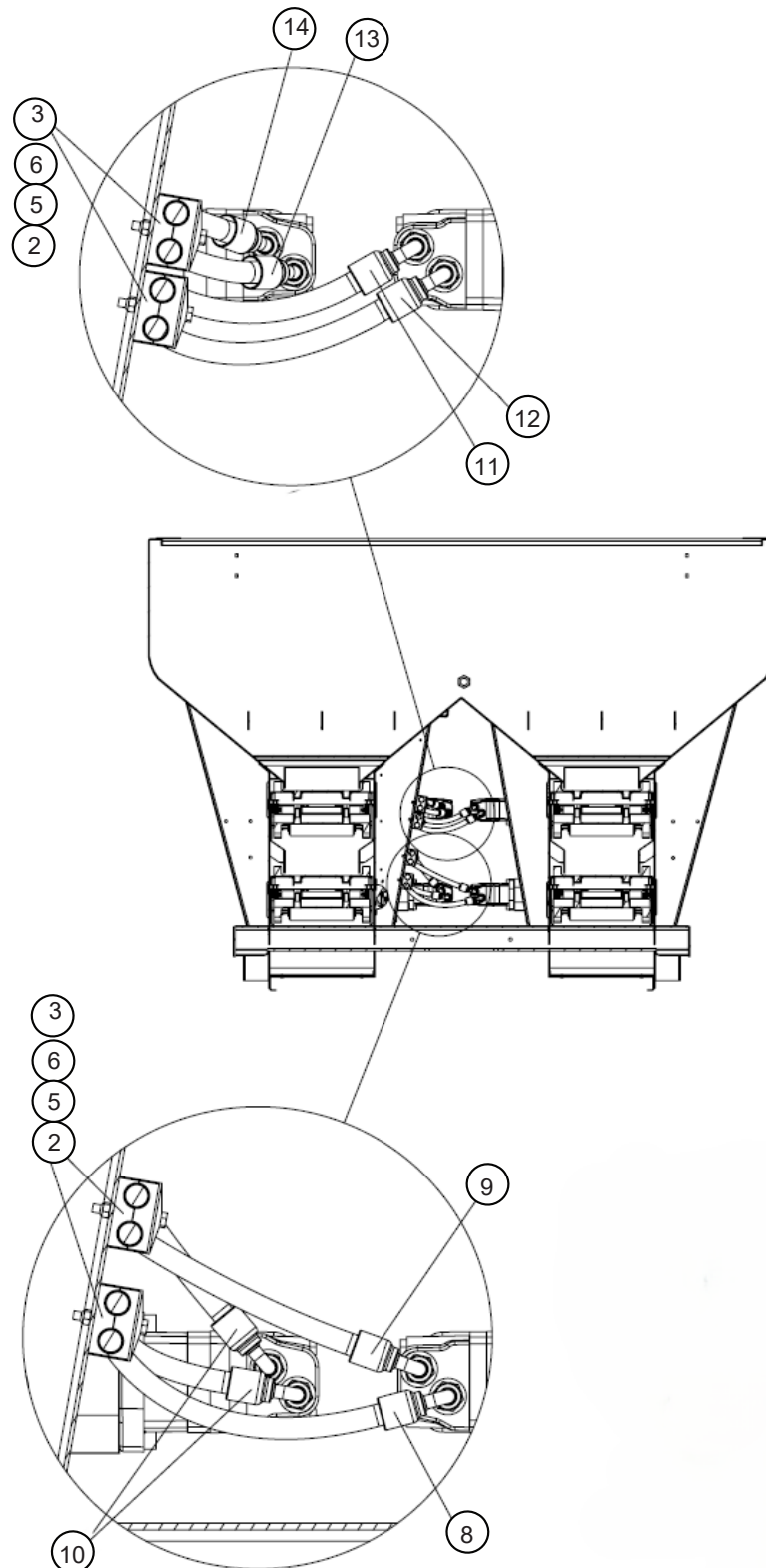
7	313184	Fitting - 12-16 520120	6
---	--------	------------------------	---

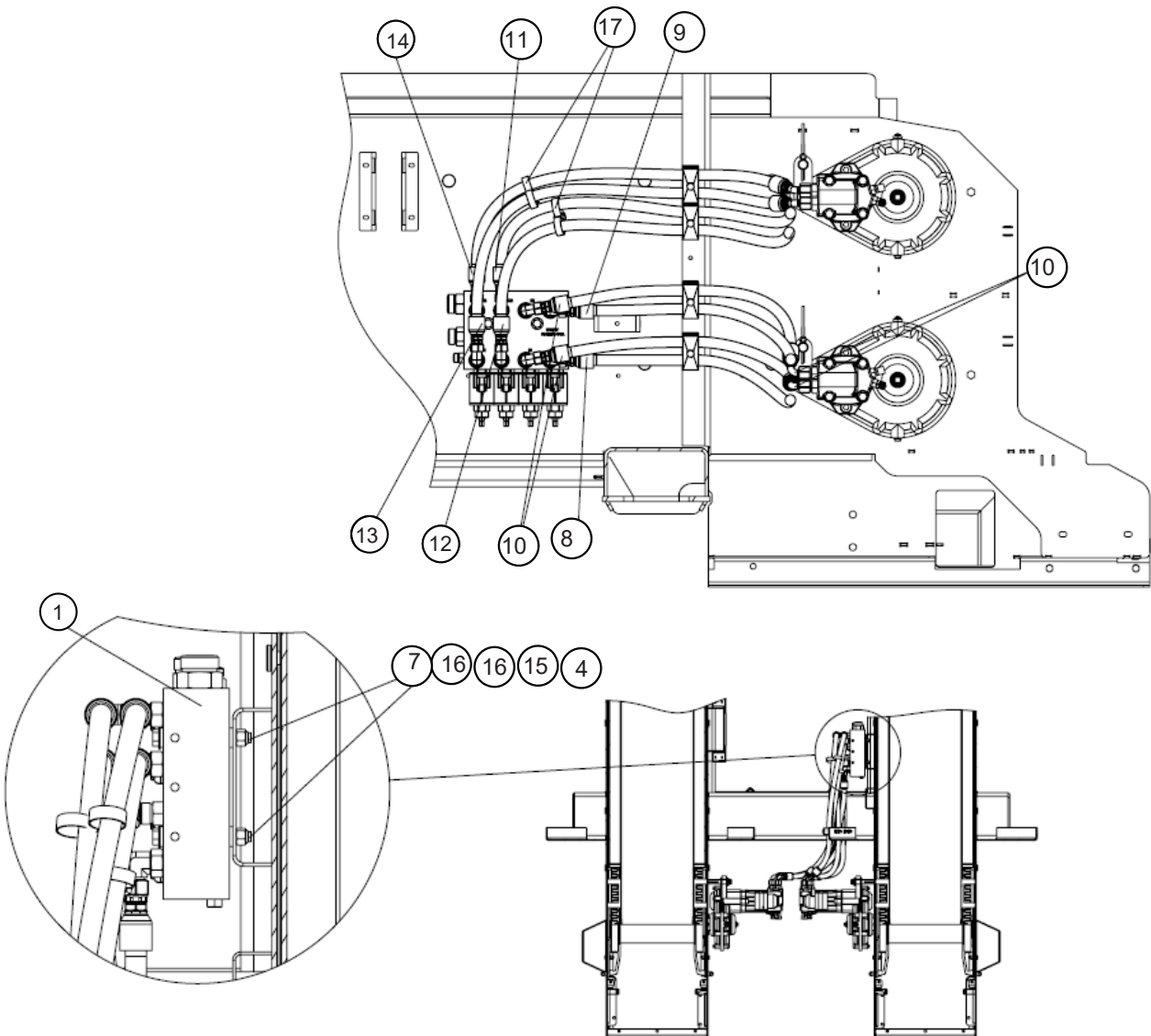
8	313455	Fitting - 6-6 520120	2
---	--------	----------------------	---

9	325786	Fitting - 24-20 520120	1
---	--------	------------------------	---



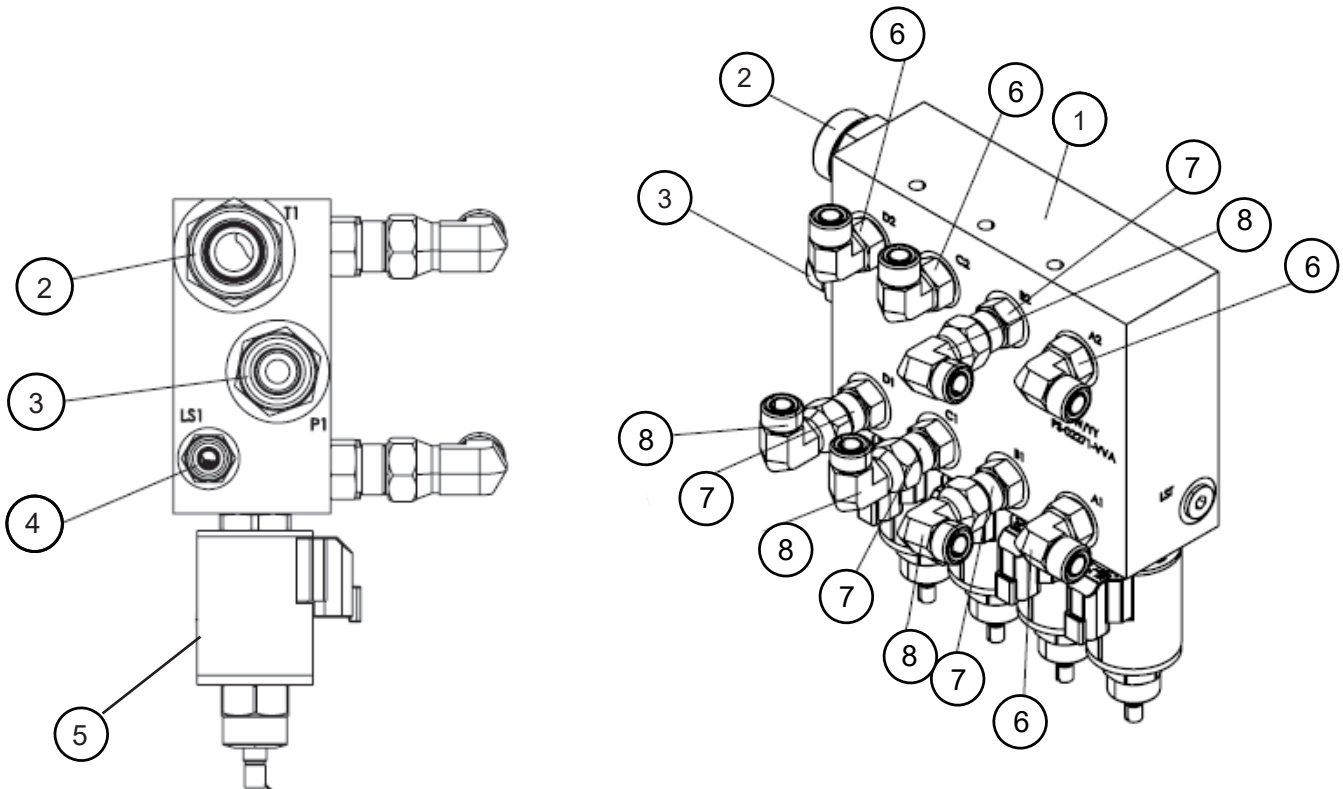
Conveyor Control Valve Assembly





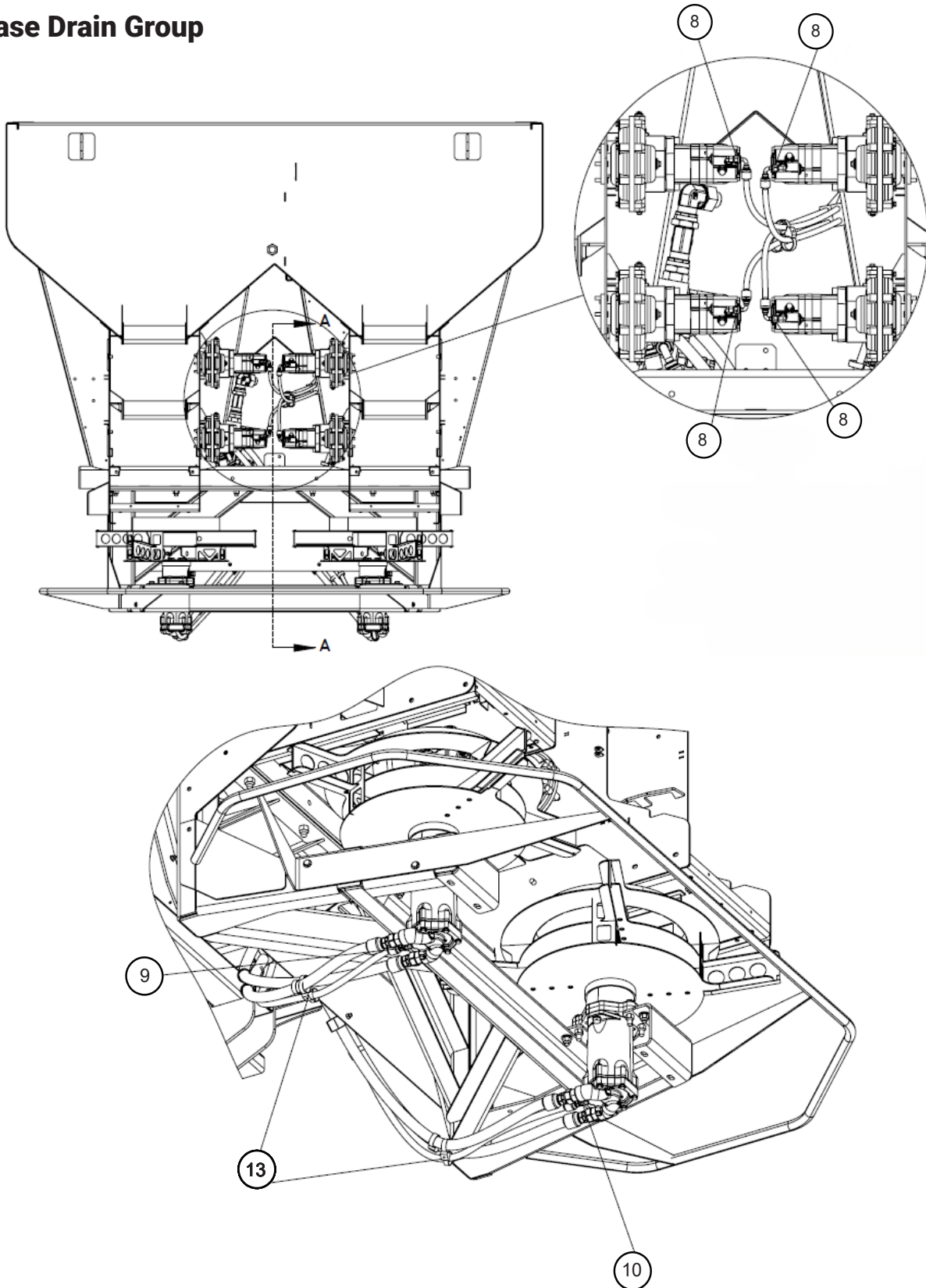
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	322898	Valve - Assy Conveyor Control	1	10	322900	Hose - Assy .5 X 25.5 100R19	2
2	310649	Clamp - Tubing Twin .84"	4	11	321707	Hose - Assy .5 X 34 100R2	1
3	42221	Nut - Lock .313-18NC SS	4	12	321706	Hose - Assy .5 X 37 100R2	1
4	72054	Nut - Lock .375-16NC SS	2	13	322902	Hose - Assy .5 X 35.5 100R19	1
5	310688	Plate - Cover Hose Clamp 304	4	14	322903	Hose - Assy .5 X 33 100R19	1
6	71830	Capscrew - .313-18UNC X 2.5	4	15	302099	Washer - Step .38ID X .53OD X	4
7	96879	Capscrew - .375-16UNC X 3.5	2	16	36425	Washer - Flat .375 304	2
8	322899	Hose - Assy .5 X 27.5 100R19	1	17	310648	Tie - Dual Clamp	2
9	321703	Hose - Assy .5 X 26 100R2	1				

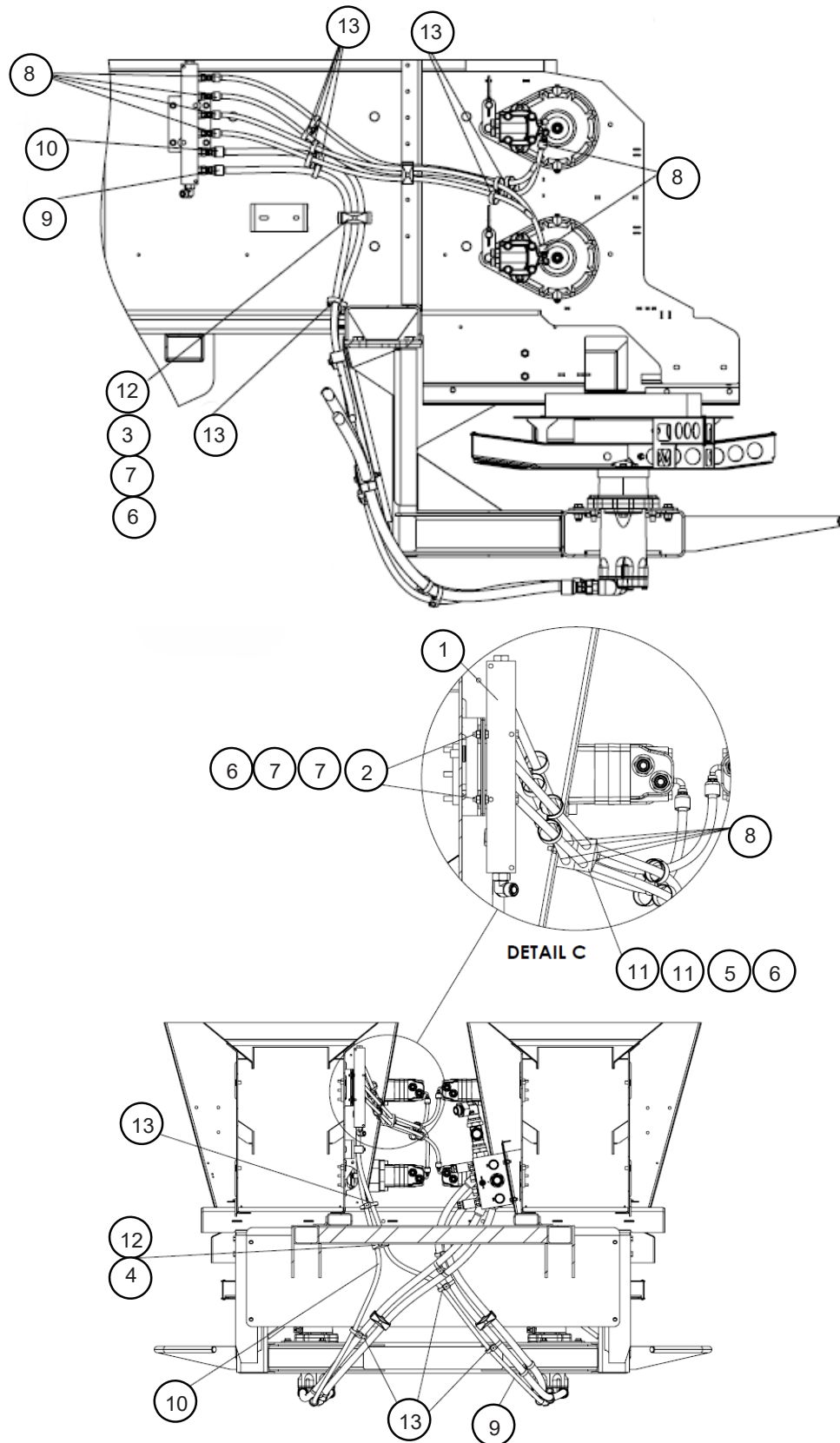
Conveyor Control Valve Assembly

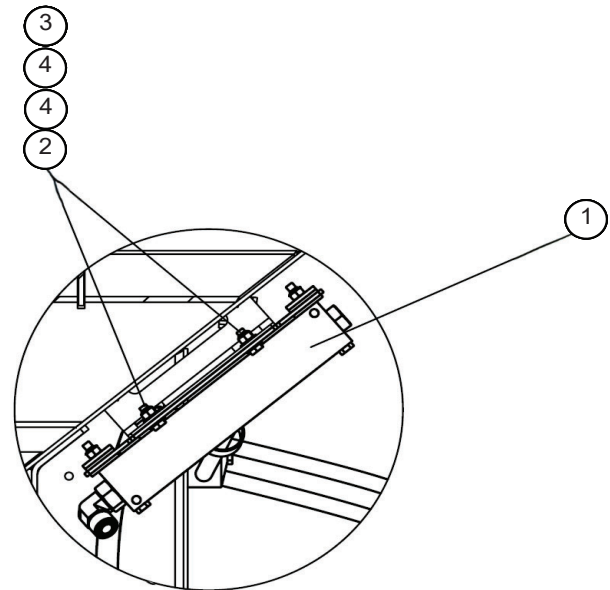
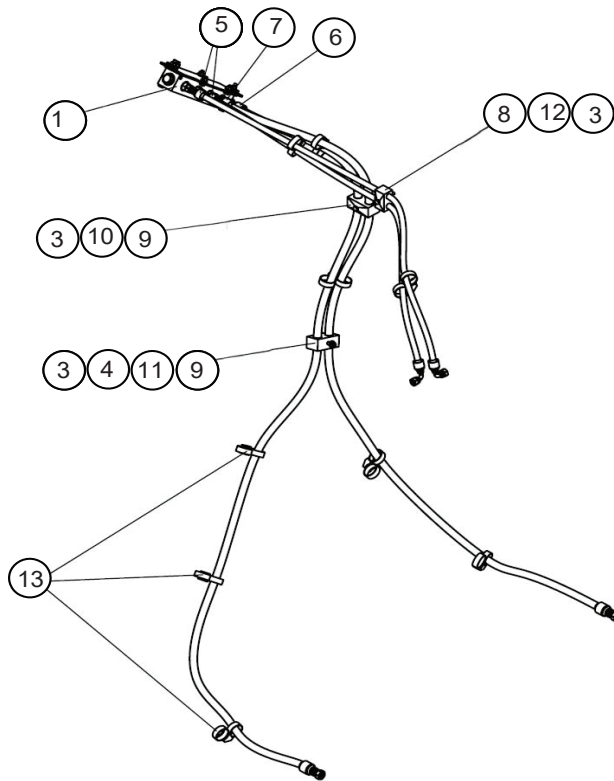


Key	Part No.	Description	Qty
	322898	Valve - Assy Conveyor Control	
1	323840	Valve - Assy Conveyor Control	1
2	312655	Fitting - 16-16 520120	1
3	313450	Fitting - 12-12 520120	1
4	313455	Fitting - 6-6 520120	1
5	320885	Valve - Flow Control 8GPM w/ Coil	1
6	313451	Fitting - 8-8 520220	4
7	313454	Fitting - 8-8 520120	4
8	304306	Fitting - 8-8 520221	4

Case Drain Group

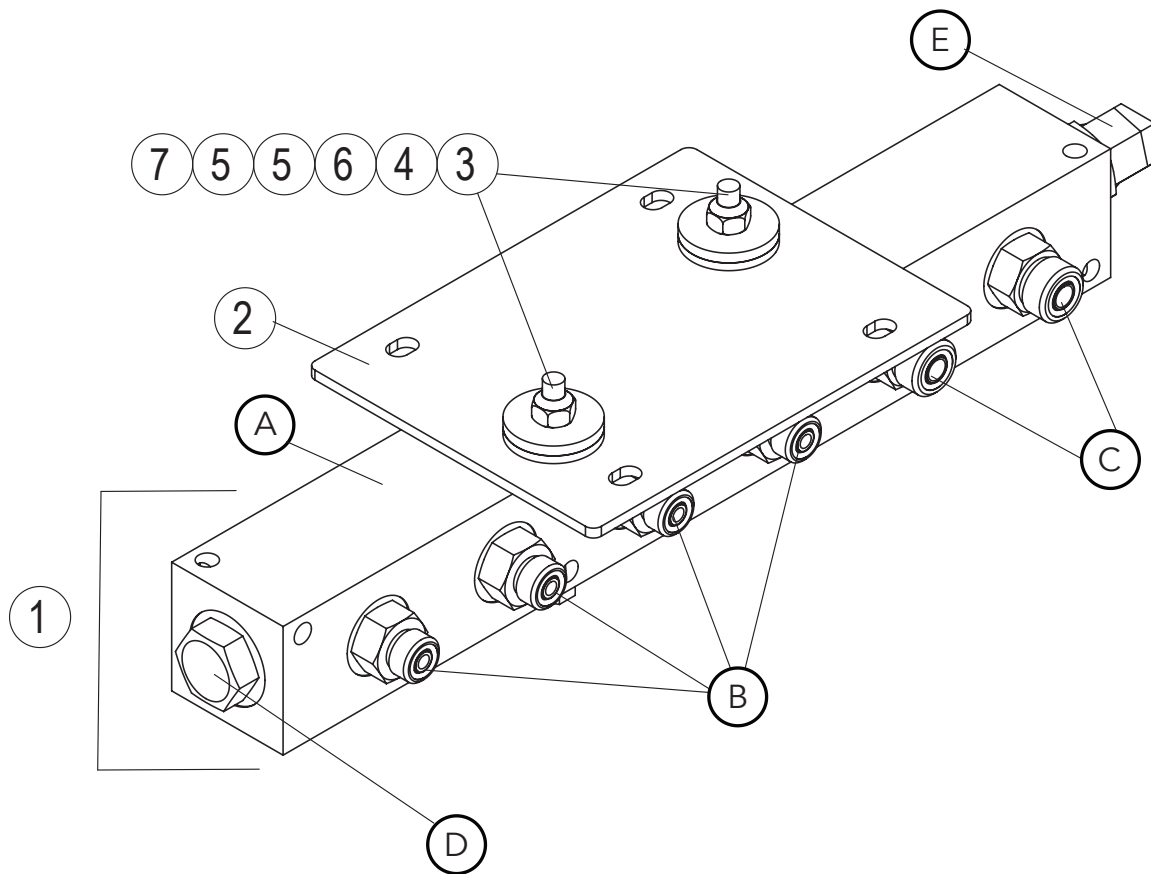






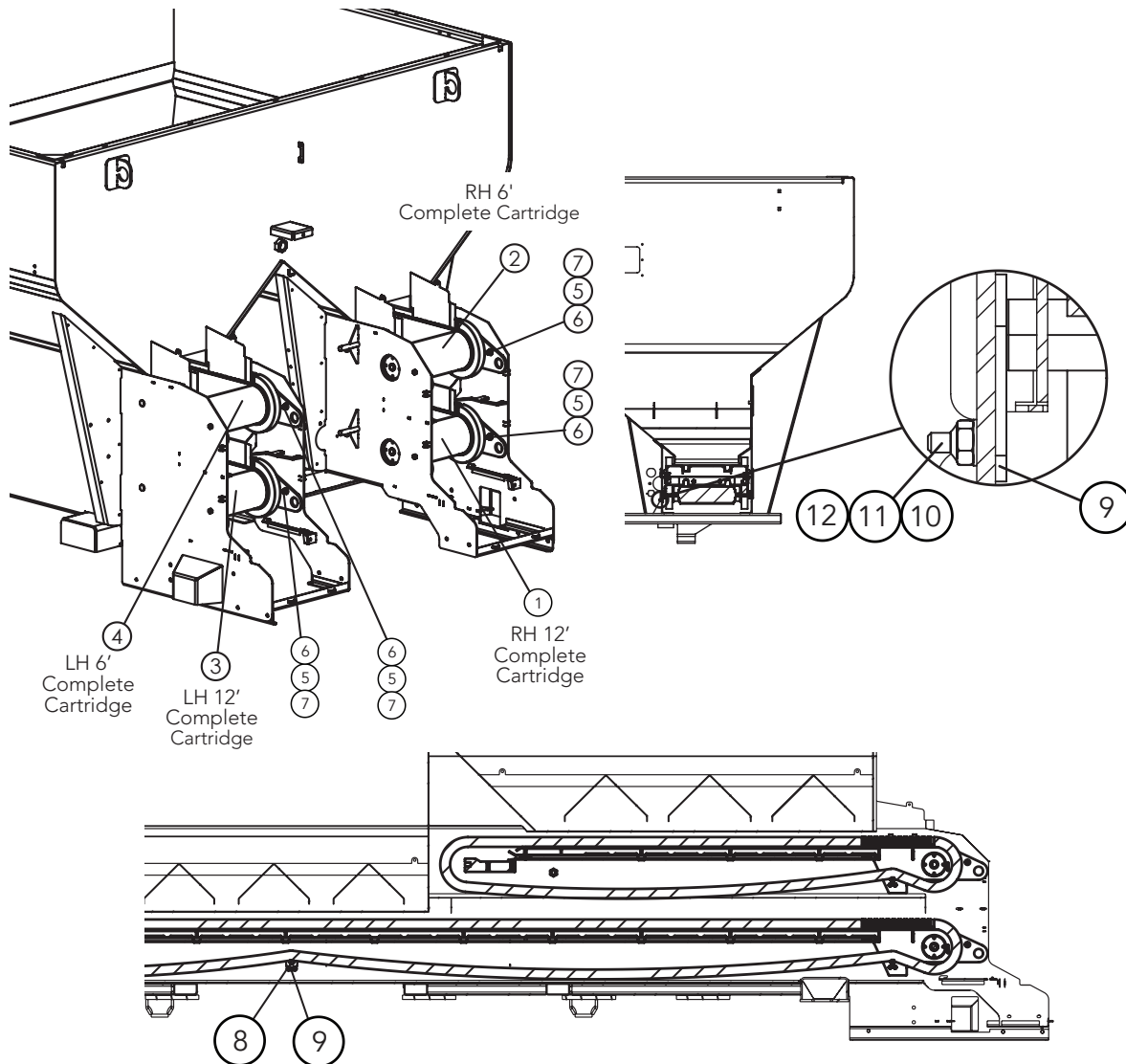
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	321711	Valve - Assy Mounting Case Drain	1	8	322895	Hose - Assy .25 X 46 100R19	4
2	36393	Capscrew - .25-20UNC X .75	4	9	321722	Hose - Assy .38 X 89 100R1	1
3	34865	Capscrew - .25-20UNC X 2.25	1	10	321723	Hose - Assy .38 X 86.5 100R19	1
4	34501	Capscrew - .25-20UNC X 2.5	1	11	300031	Clamp - Tube Twin .5	2
5	36396	Capscrew - .25-20UNC X 3 304	1	12	75036	Clamp - Tube Twin .75 3PCS	2
6	42034	Nut - Lock .25-20UNC 304	7	13	310648	Tie - Dual Clamp Max 1.3 Bundl	11
7	36423	Washer - Flat .25 304	11				

Case Drain Mounting Assembly



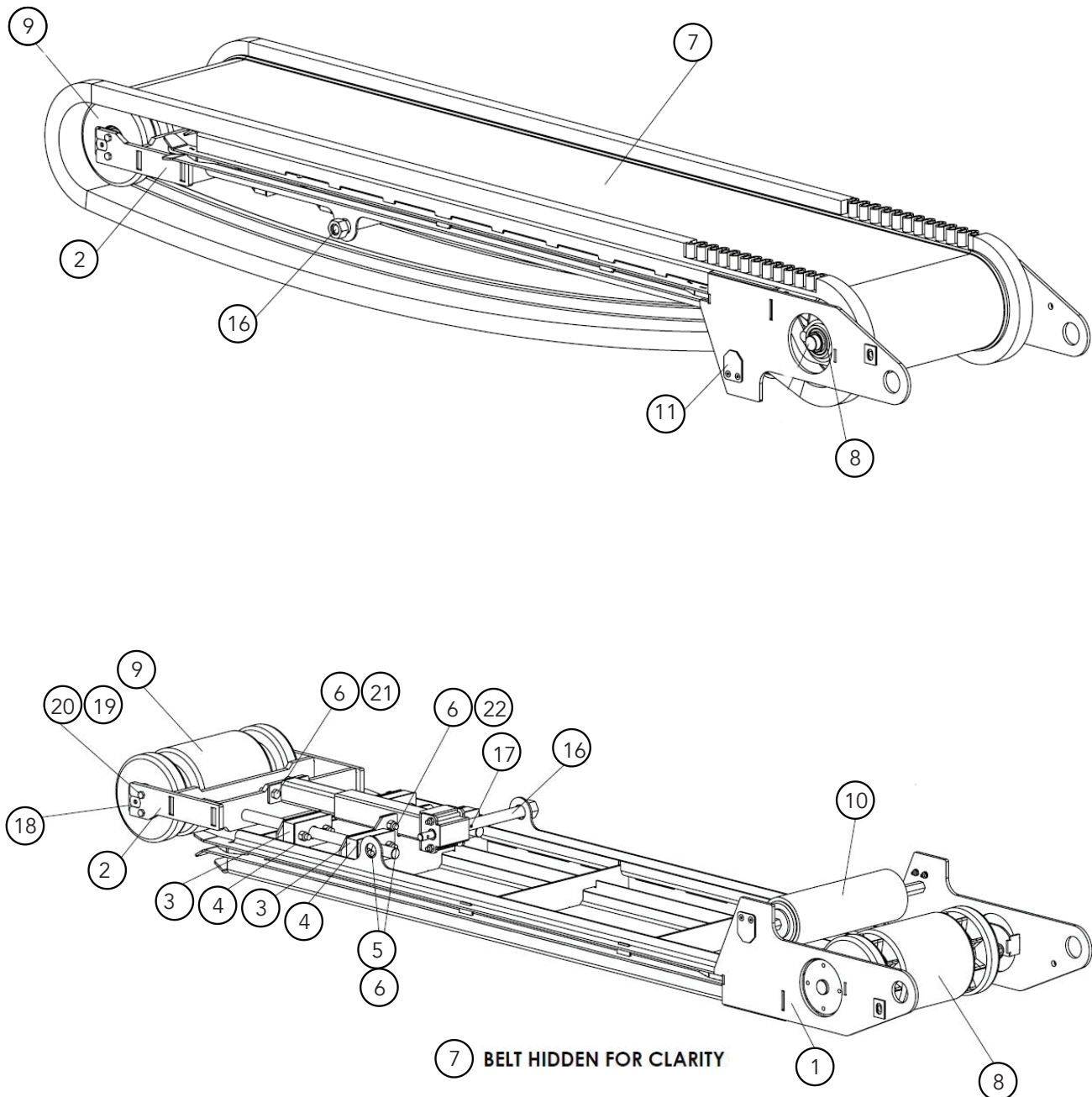
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
--	--	Case Drain Mounting Assy	--	E	313451	Fitting - 8-8 520220	1
1	321713	Valve - Assy Case Drain	1	2	321712	Bracket - Valve Mount	1
A	321714	Valve - Distribution	1	3	34866	Capscrew - .25-20NC X 2.75 SS	2
B	313447	Fitting - 4-6 520120	4	4	42034	Nut - .25-20NC SS Lock	2
C	313455	Fitting - 6-6 520120	2	5	321715	Washer - Step .638ID X .875OD	4
D	29804	Fitting - 8 090109a	1	6	321716	Washer - .313ID X 1.125OD X 10GA 304	2
				7	321717	Spacer - 304	2

Conveyor 12' Conveyor Group

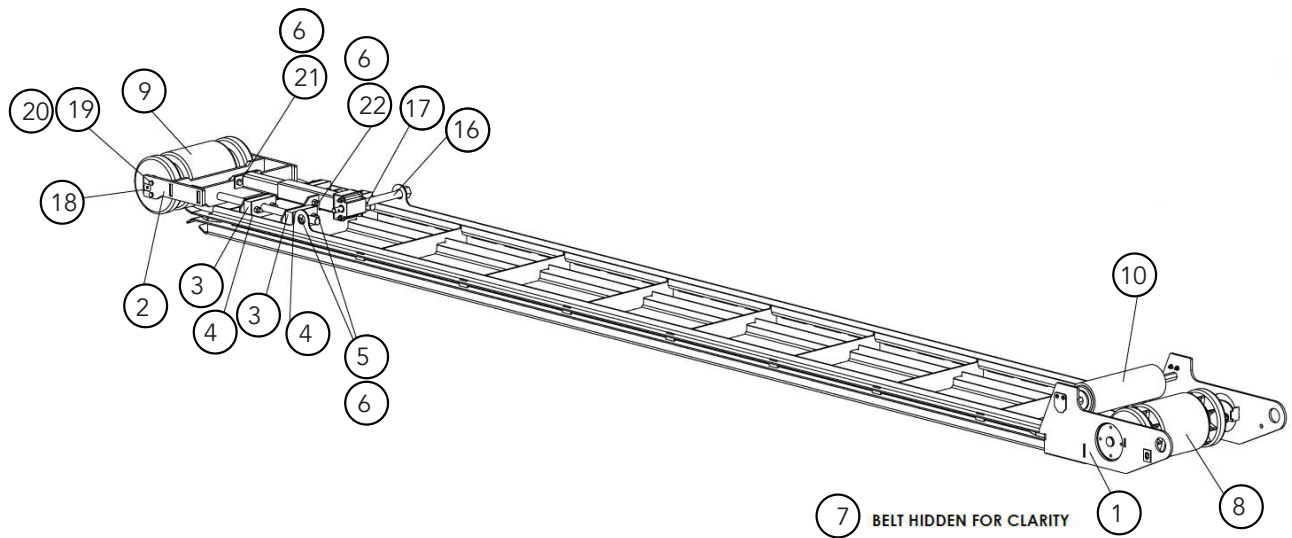
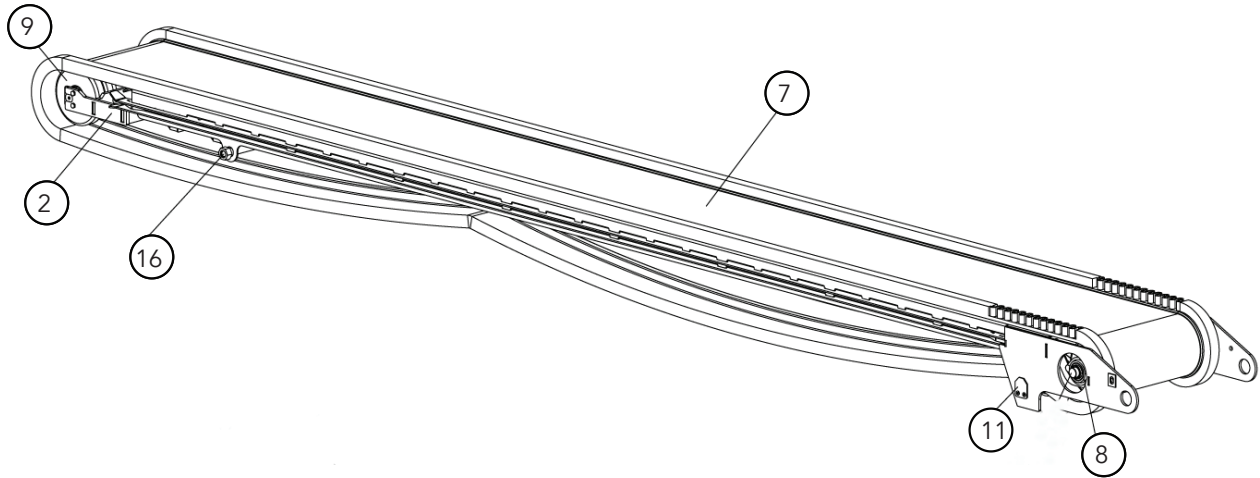


Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	325014	Complete Cartridge - Assy RH Conv 12' (See next page.)	1	7	72054	Nut - .375-16NC SS Lock	8
2	325010	Complete Cartridge - Assy RH Conv 6' (See next page.)	1	8	322463	Pulley - Snubber	2
3	325013	Complete Cartridge - Assy LH Conv 12' (See next page.)	1	9	323265	Tab - Cover 304	2
4	325009	Complete Cartridge - Assy LH Conv 6' (See next page.)	1	10	323271	Flat Head - 10-24 .75 SS	4
5	36425	Washer - .375 SS Flat	8	11	171052	Washer - #10 SS Flat	4
6	36399	Capscrew - .375-16NC X 1.25 SS	8	12	56355	Nut - #10-24NC SS Lock	4

Conveyor RH Cartridges

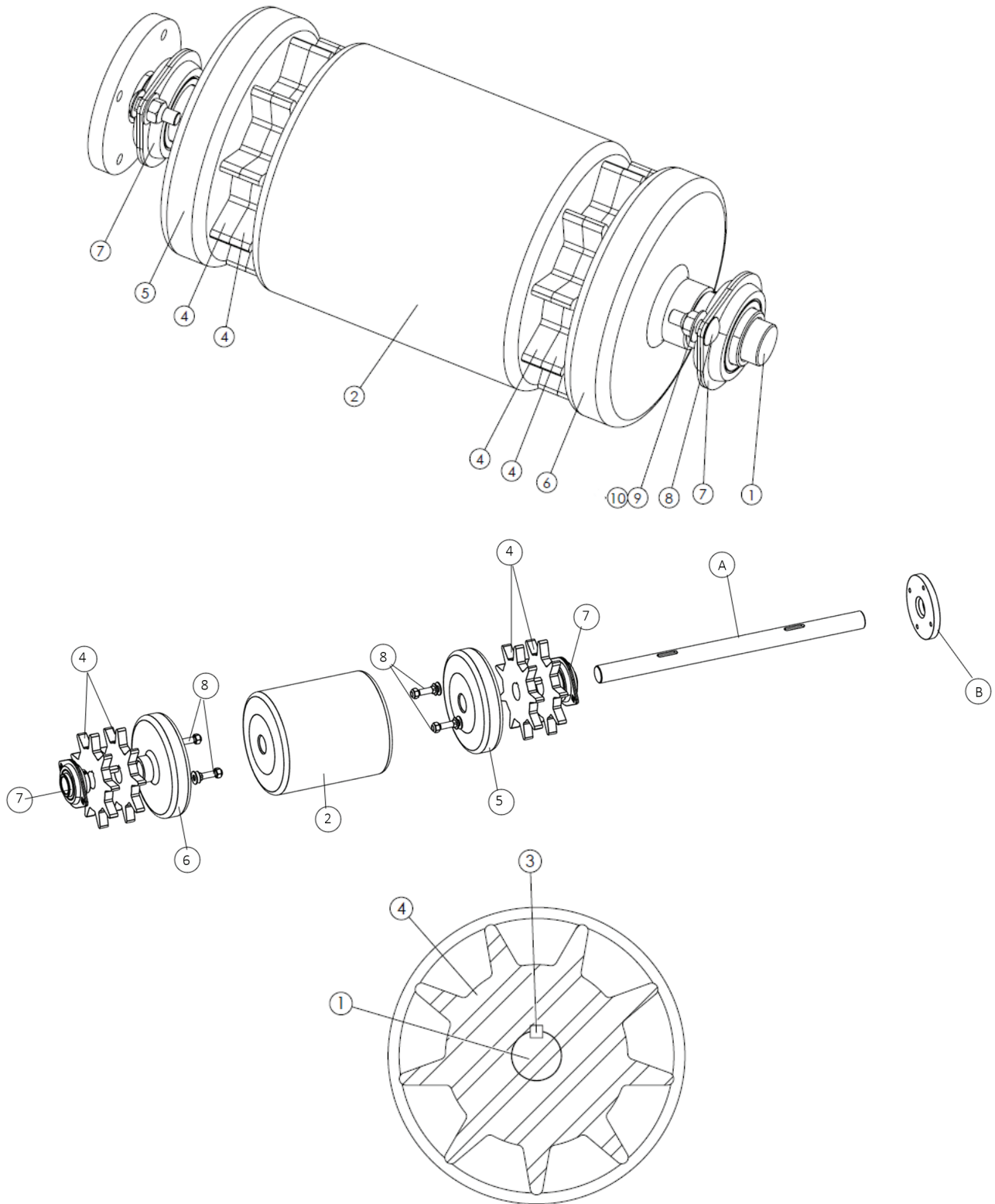


Conveyor LH Cartridges



Key	Part No.	Description	Qty
	325014	Complete - Conv Cartridge - RH 12'	
	325010	Complete - Conv Cartridge - RH 6'	
	325013	Complete - Conv Cartridge - LH 12'	
	325009	Complete - Conv Cartridge - LH 6'	
1	324979	Cartridge - WLDMT Conv (Lower)	
	324978	Cartridge - WLDMT Conv 6' (Upper)	
2	324990	Cartridge - WLDMT Takeup 304	2
3	324943	Block - Guide UHMW 4	4
4	325006	Cover - Idler Bushing 304	4
5	34859	Capscrew - .375-16NC X 2 SS	4
6	72054	Nut - .375-16NC SS Lock	4
7	321251	Belt - Conv 12' #6 15.63" (Lower)	
	321252	Belt - Conv 6' #6 15.63" (Upper)	
8	324996	Shaft - Assy Drive 304	1
9	324995	Idler - Assy Conv	1
10	323263	Pulley - Snubber	1
11	323265	Tab - Cover 304	2
12	323271	Flat Head - 10-24 .75 SS	4
13	171052	Washer - Flat #10 SS	4
14	56355	Nut - Lock #10-24NC SS	4
15	325510	Jack - Assy 6.50 304	1
16	325008	Tube - WLDMT Idler 304	1
17	56313	Pin - Roll .188 X .75 SS	1
18	325005	Bracket - Idler Lock 304	2
19	36394	Capscrew - .25-20NC X .875 SS	4
20	42034	Nut - Lock .25-20NC SS	4
21	36399	Capscrew - .375-16NC X 1.25 SS	2
22	36398	Capscrew - .375-16NC X 1 SS	2

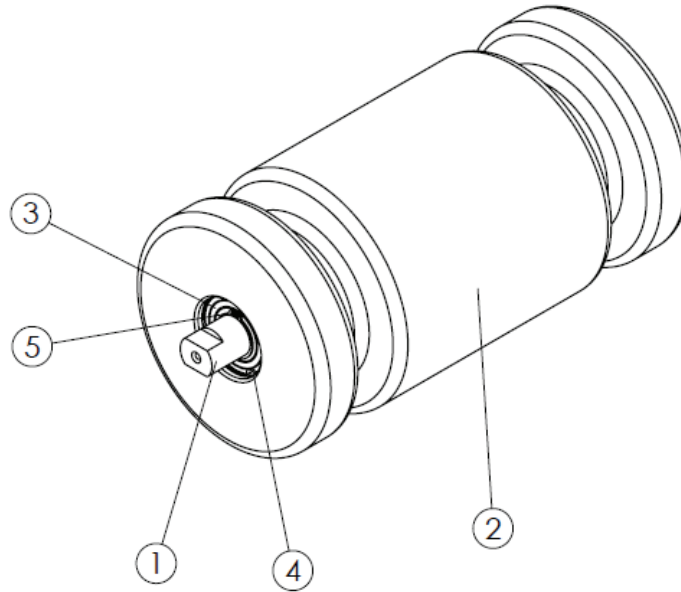
Drive Shaft



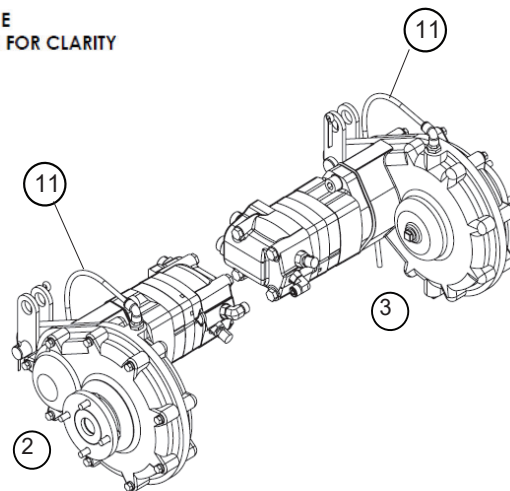
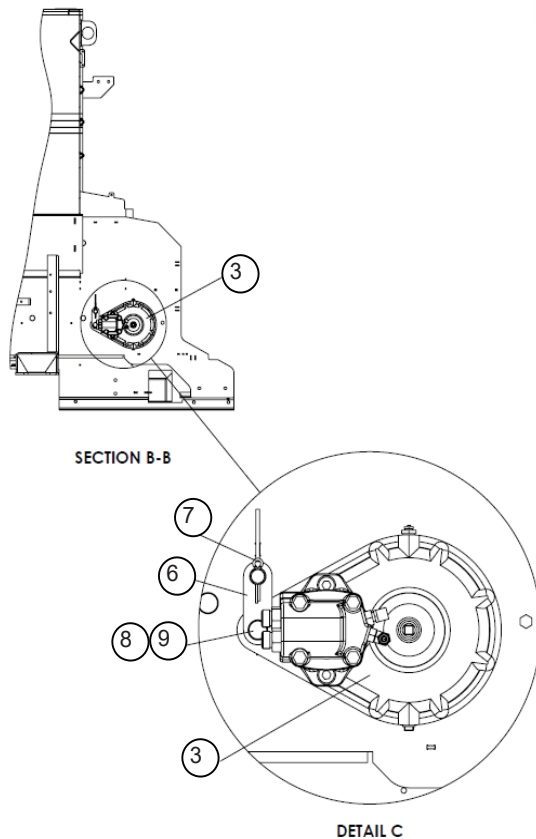
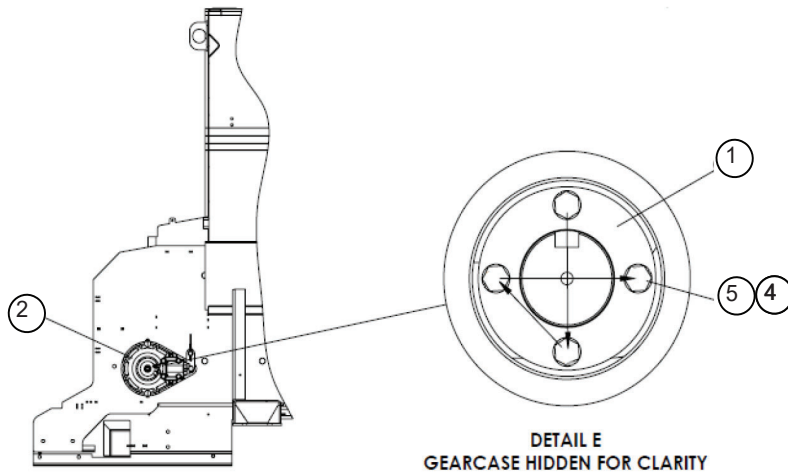
Drive Shaft, Contd.

<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	322833	SHAFT - WLDMT DRIVE 304	1
2	324937	ROLLER - DRIVE CENTER UHMW	1
3	321724	KEY - SQ .25 X .875 SS	2
4	325019	SPROCKET - 304	4
5	324938	ROLLER - DRIVE SHORT UHMW	1
6	324939	ROLLER - DRIVE LONG UHMW	1
7	321732	BEARING - 304	2
8	42639	BOLT - CARRIAGE .313-18NC X 1 SS	4
9	36424	WASHER - FLAT .313 SS	4
10	42221	NUT - LOCK .313-18NC SS	4

Tail Pulley



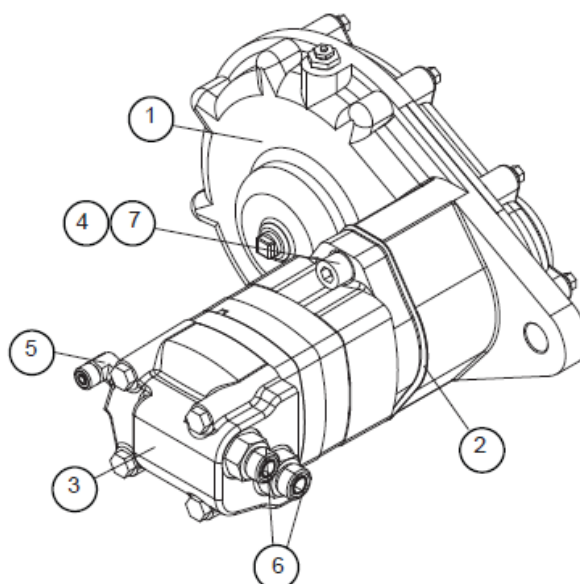
Key	Part No.	Description	Qty
1	324945	Shaft - Idler Pulley 304	1
2	324936	Roller - Idler UHMW	1
3	324940	Bearing - 1" Bore 304	2
4	324941	Ring - Snap 2" Internal 304	2
5	324942	Ring - Snap 1" External 304	2



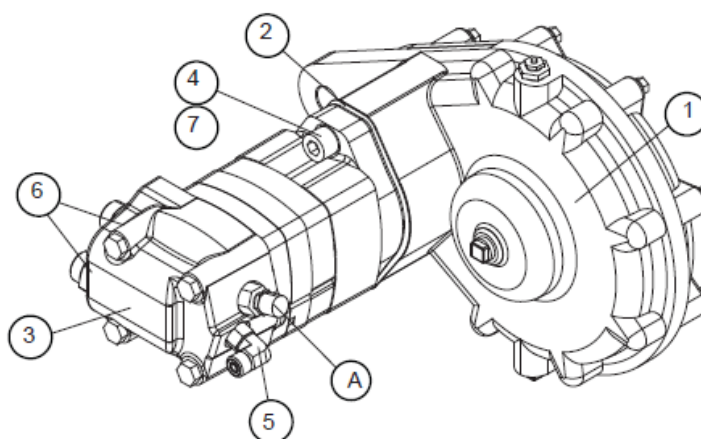
Key	Part No.	Description	Qty
1	322883	Shaft - Wldmt Adapter 304	4
2	322886	Gearcase - Assy 6:1 4.9CID LH (See next page.)	2
3	322887	Gearcase - Assy 6:1 4.9CID RH (See next page.)	2
4	36419	Washer - .313 SS Lock	16
5	34580	Capscrew - .313-18NC X 1 SS	16
6	322890	Link - 304	8
7	316109	Pin - Cotter .25 X 1.5 SS	4
8	322892	Pin - Cotter .125 X 1.5 SS	4
9	322891	Pin - Clevis .75 X 1.75 SS	4
10	301315	Loctite - 243	-
11	306890	Breather Tube- Assy Gearcase	2

Conveyor Gear Cases

Gear Case Assy - LH

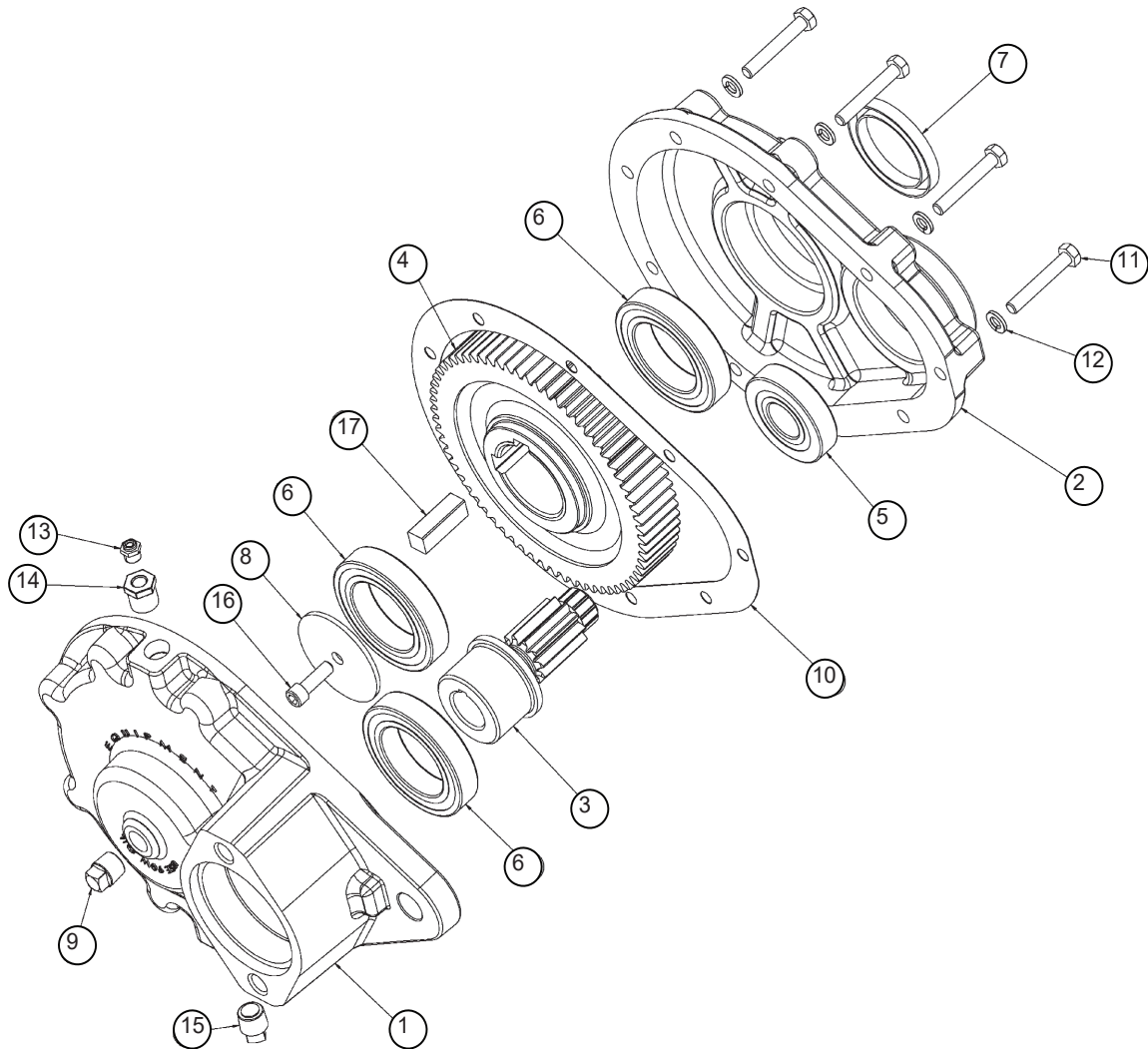


Gear Case Assy - RH



Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
	322886	Gear Case - Assy 6:1 4.9CID LH		4	30227	Washer - Lock Socket HD .5"	2
	322887	Gear Case - Assy 6:1 4.9CID RH		5	312654	Fitting - 4-4 520220	1
1	36671-P	Gear Case - Assy	1	6	304309	Fitting - 8-10 520120	2
2	74524	Gasket - SAE 101-2 (B)	1	7	305098	Screw - Sockethead .5-13NC X 1.75	2
3	320877	Motor - Hyd 4.9 CID	1				
A	89709-AA	Sensor	1				
B	77938	Seal Kit (Not Shown)	1				

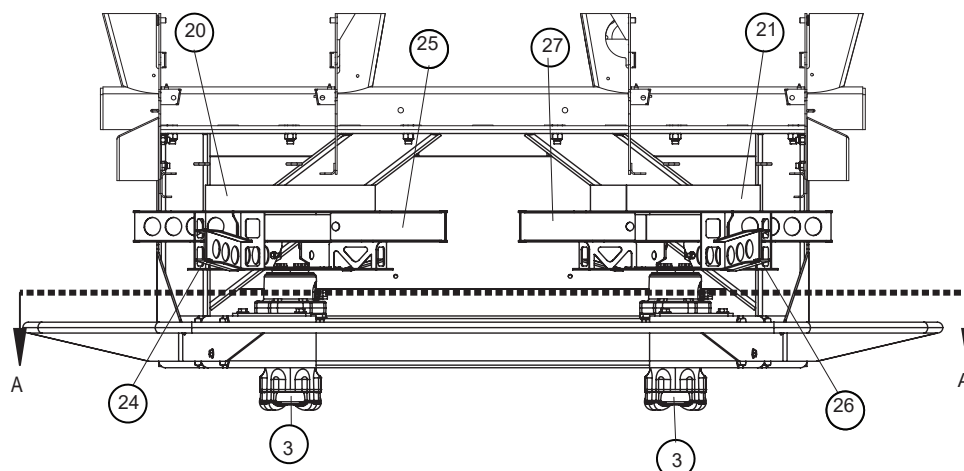
Gear Case Service Parts



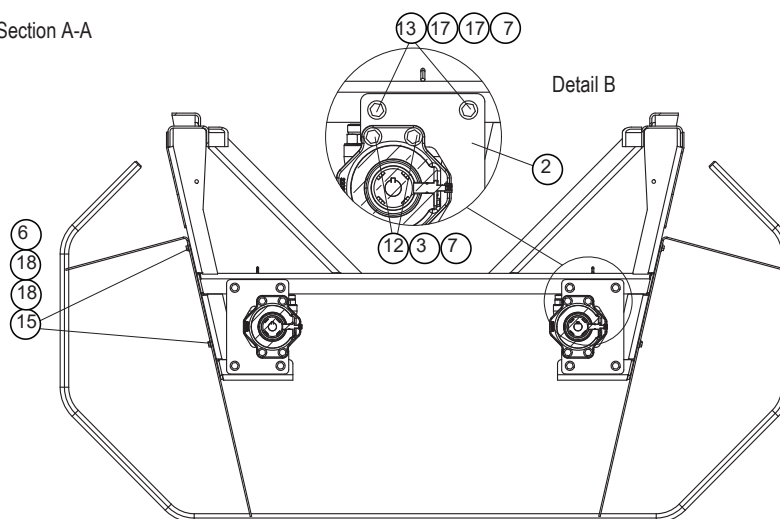
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
	36671	Gear Case Service Assy	1	10	304563	Gasket - Housing Single Pinion	1
1	304559	Housing - Outboard Sngl Pinion	1	11	20040	Capscrew - .313-18NC X 2 Gr5	9
2	304560	Housing - Inboard Sngl Pinion	1	12	20711	Washer - .313 Zn Lock	9
3	304561	Gear - Pinion 11t	1	13	2564	Tube - Breather	1
4	304562	Gear - Driven 67t	1	14	27465	Bushing - 3/8 X 1/8	1
5	37007	Bearing - Ball	1	15	21490	Plug - Magnetic Sq Head .38NPT	1
6	37008	Bearing - Ball	3	16	38980	Screw - Allen Hd .31-18NC X 1	1
7	37006	Seal - Oil	1	17	37010	Key - SQ .5 X 1.5	1
8	38979	Washer - Retainer	1				
9	6031	Plug - 3/1 X 1/8 NPT	1				

Spinners

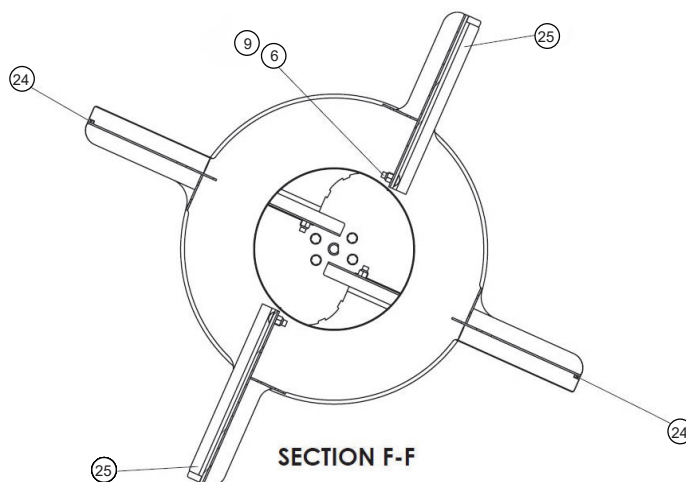
Spinner Assembly



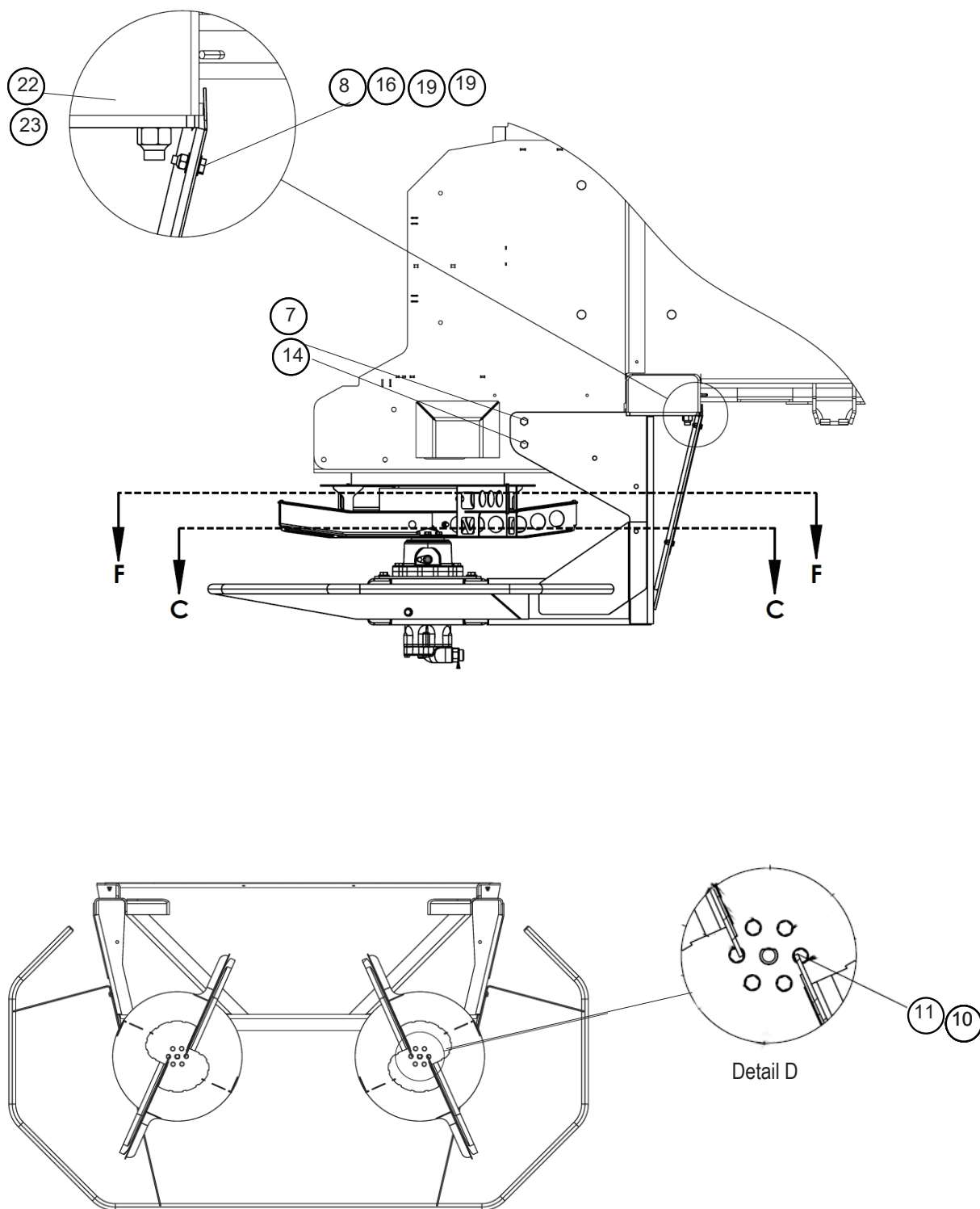
Section A-A

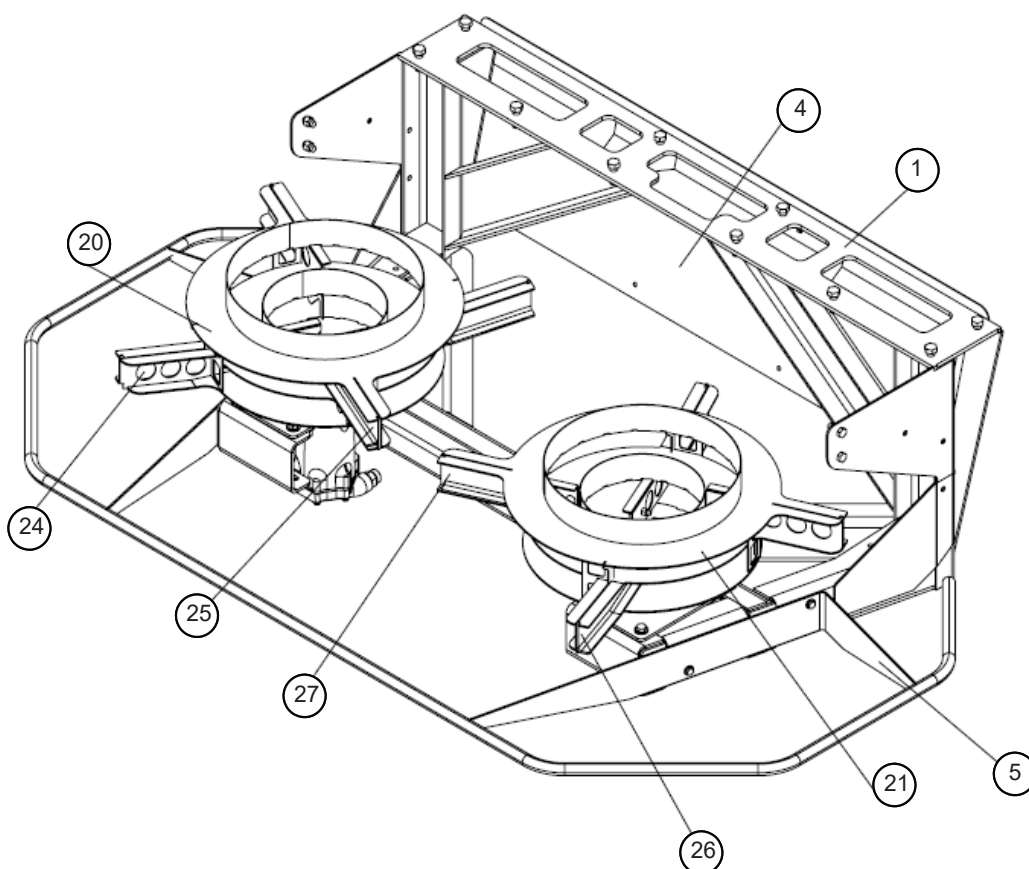


Detail B

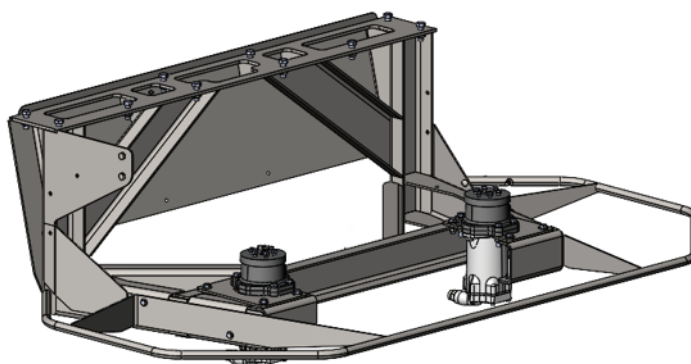
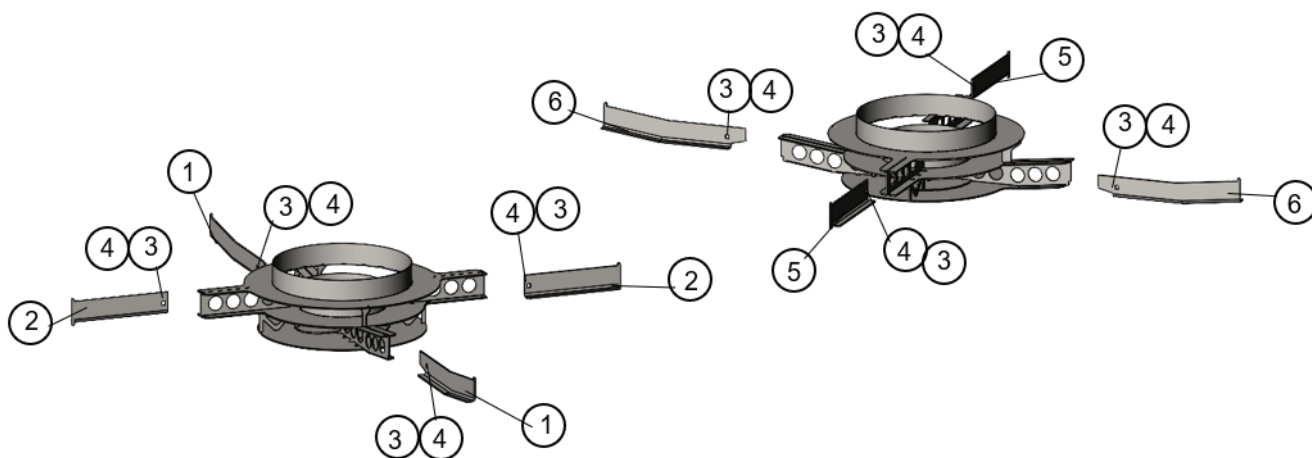


SECTION F-F



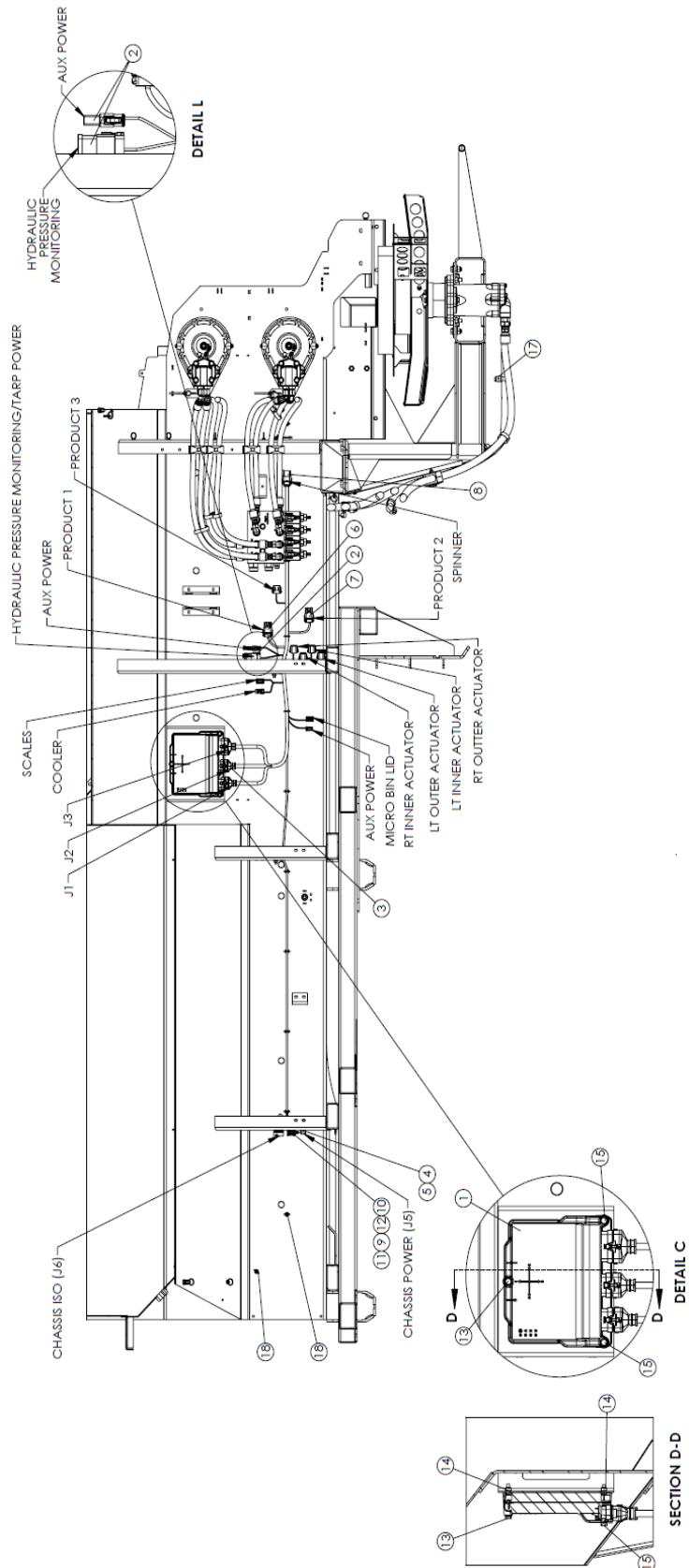


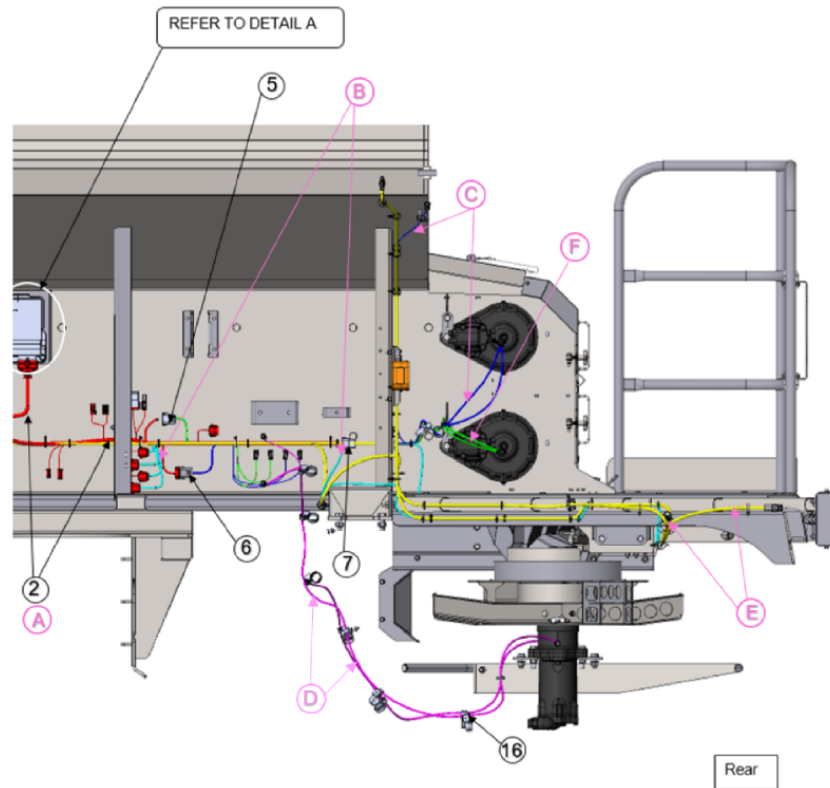
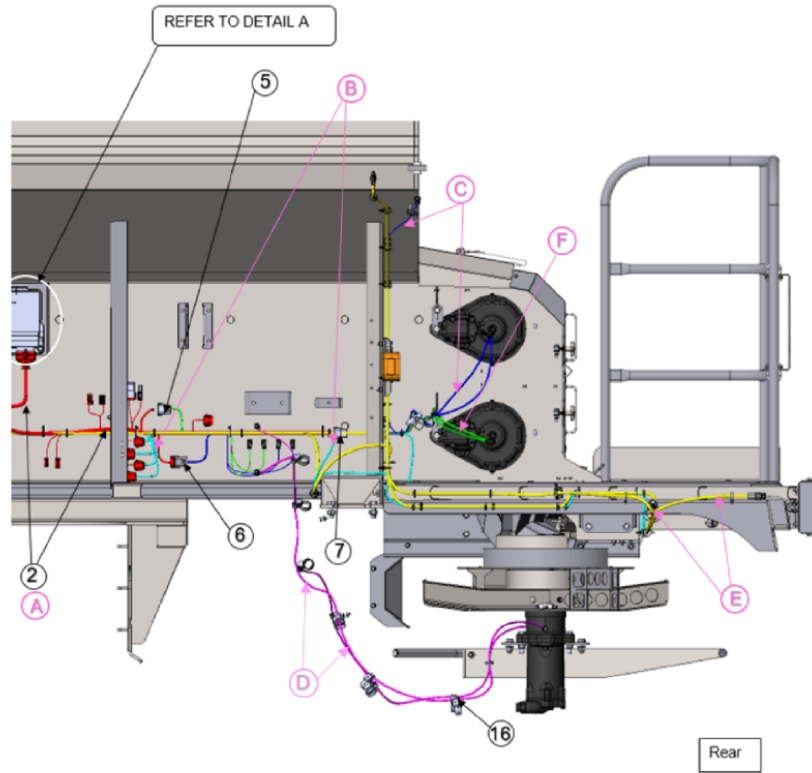
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	322465	Frame - Wldmt Spinner 304	1	15	36399	Capscrew - .375-16NC X 1.25 SS	4
2	322483	Mount - Spinner 304	2	16	36394	Capscrew - .25-20NC X .875 SS	6
3	321528	Motor - Assy Spinner (See next page.)	2	17	322259	Washer - Flat .5 Hd SS	16
4	321443	Plate - Backstop Panel 304	1	18	36425	Washer - .375 SS Flat	8
5	321530	Guard - Wldmt Spinner Lower	1	19	36423	Washer - .25 SS Flat	12
6	72054	Nut - .375-16NC SS Lock	12	20	322490	Disk - Wldmt LH 304	1
7	39016	Nut - .5-13NC SS Lock	20	21	322531	Disk - Wldmt RH 304	1
8	42034	Nut - .25-20NC SS Lock	6	22	58800	Capscrew - .625-11NC X 1.75 SS	10
9	36408	Bolt - .375-16NC X 1 SS	8	23	41762	Nut - Lock .625-11NC SS	10
10	36420	Washer - .375 SS Lock	12	24	324165	Overlay - BTM LH 304	2
11	36293	Capscrew - .375-16NC X .75 SS	12	25	324167	Overlay - TOP LH 304	2
12	42454	Capscrew - .5-13NC X 2.5 SS	8	26	324166	Overlay - BTM RH 304	2
13	36539	Capscrew - .5-13NC X 1.5 SS	8	27	324168	Overlay - TOP RH 304	2
14	36402	Capscrew - .5-13NC X 1.25 SS	4	Note: See next page for exploded spinner assembly view.			

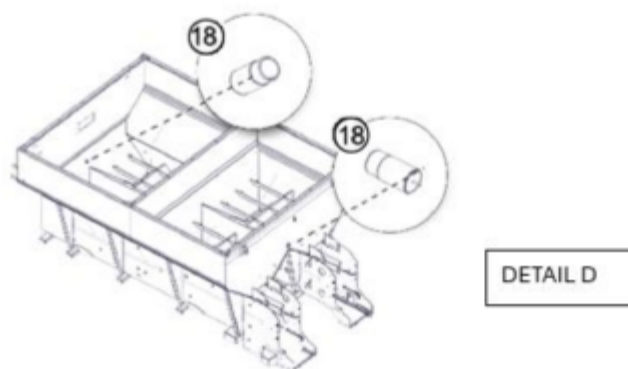
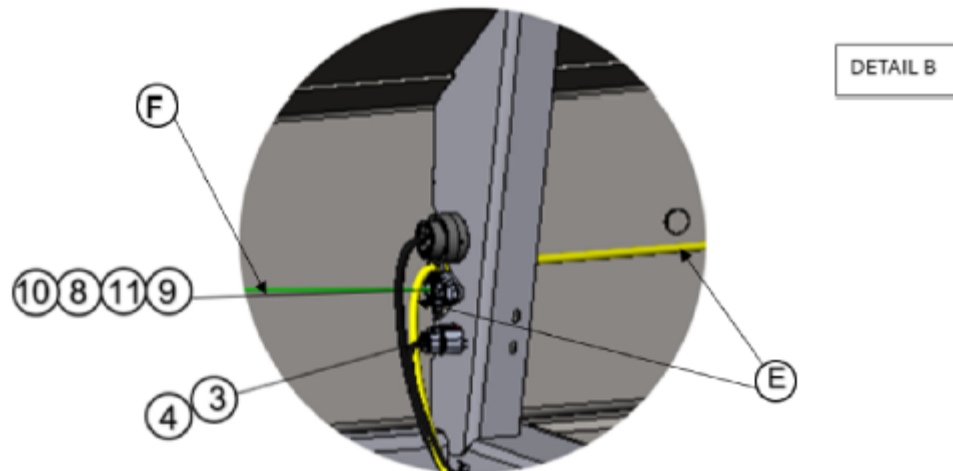
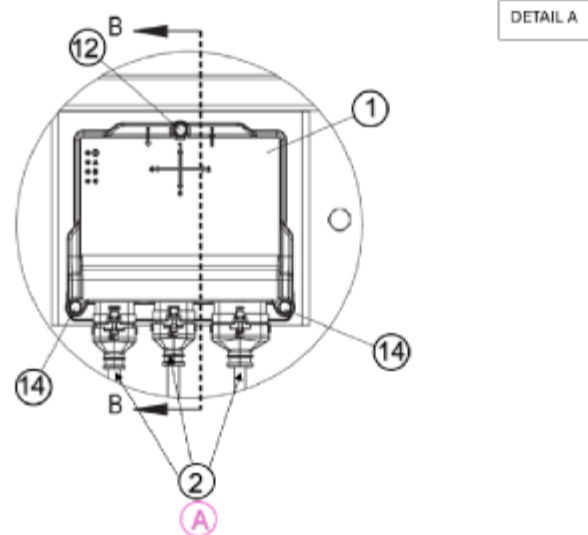


Key	Part No.	Description	Qty
	325120	Fin - Kit NL720	
1	324165	Overlay - BTM LH	2
2	324167	Overlay - Top LH	2
3	36408	Bolt - Carriage .375 - 16NC X 1 SS	8
4	72054	Nut - Lock .375-16NC SS	8
5	324166	Overlay - BTM RH	2
6	324168	Overlay - Top RH	2

Electrical Harnesses & Sensors







Parts List →

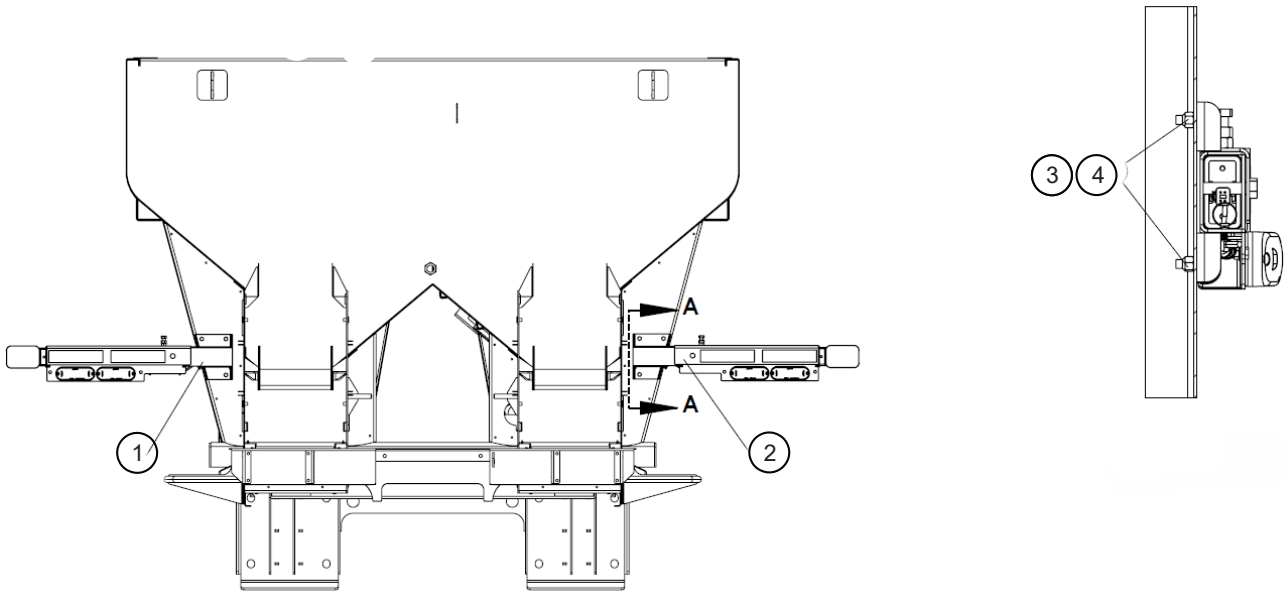
Key	Part No.	Description	Qty
1	322921	Controller - Raven RCM	1
2	324103	Harness - Hydraulic Pump	1
3	322915	Harness - Main	1
4	44483	Screw - RND HD #10-24UNC X .75	2
5	56355	Nut - Lock #10-24UNC 304	2
6	322916	Harness - Bin 1 Control 12'-14	1
7	322917	Harness - Bin 2 Control 12'-14	1
8	322919	Harness - Spinner	1
9	312964	Clip - Harness Mounting	4
10	34580	Capscrew - .313-18UNC X 1	4
11	36424	Washer - Flat .313 304	4
12	42221	Nut - Lock .313-18UNC 304	4
13	34501	Capscrew - .25-20UNC X 2.5	1
14	42034	Nut - Lock .25-20UNC 304	3
15	36396	Capscrew - .25-20UNC X 3 304	2
16	99674	Strap - Zip Tie 8 Blk Ultra	20
17	310648	Tie - Dual Clamp Max 1.3 Bundl	12
18	311806	Strap - Zip Tie 11 Blk Fir	28

Harness List →

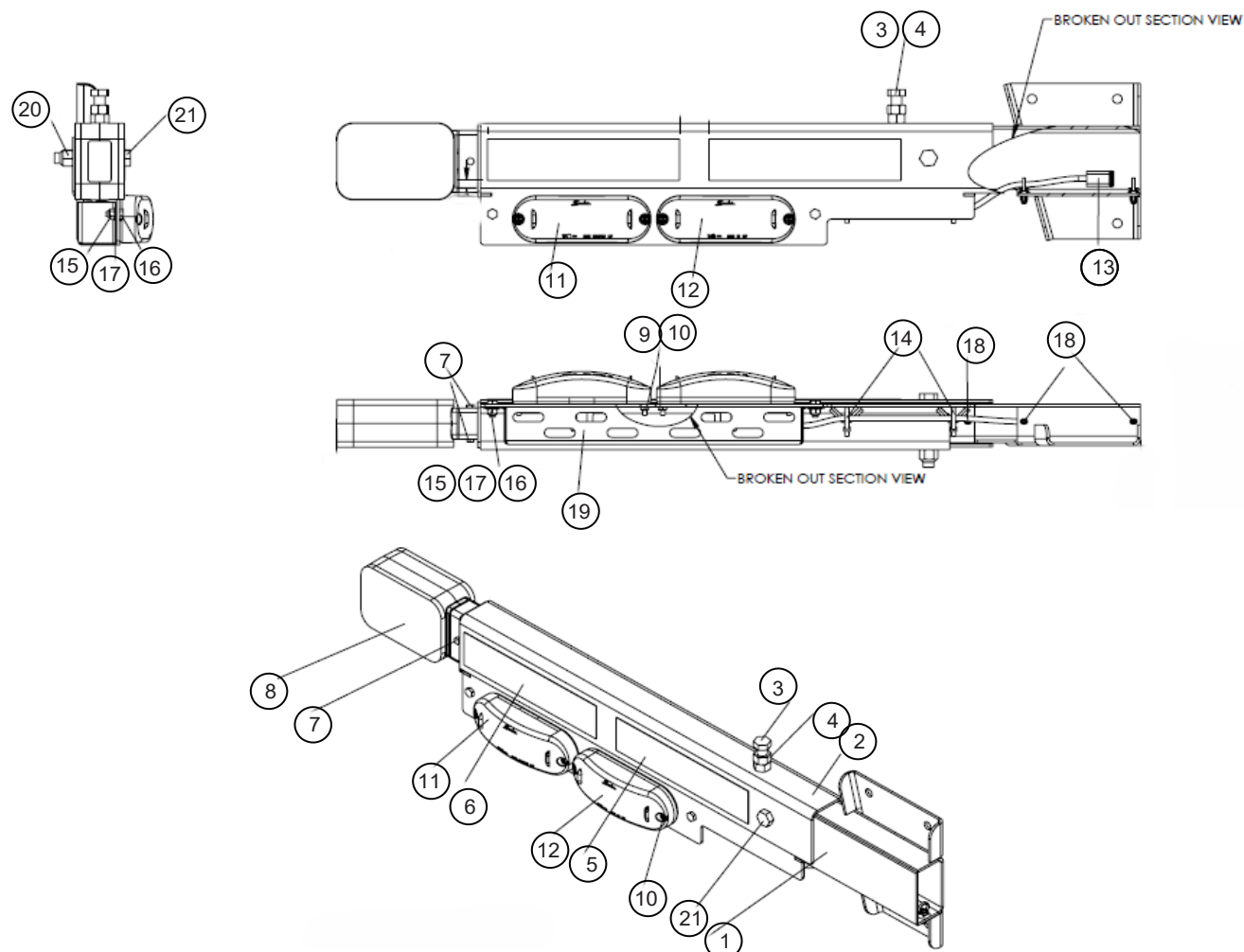
Key	Part No.	Description	Colors
A	322915	Main Harness	Red
B	322915	Chute Actuators	Teal
C	322917	Bin 2 Conveyors	Blue
D	322919	Spinners	Purple
E	**	Lighting	Yellow
F	322916	Bin 1 Conveyors	Green

**See page 42-44 for part numbers.

Light Harness Group



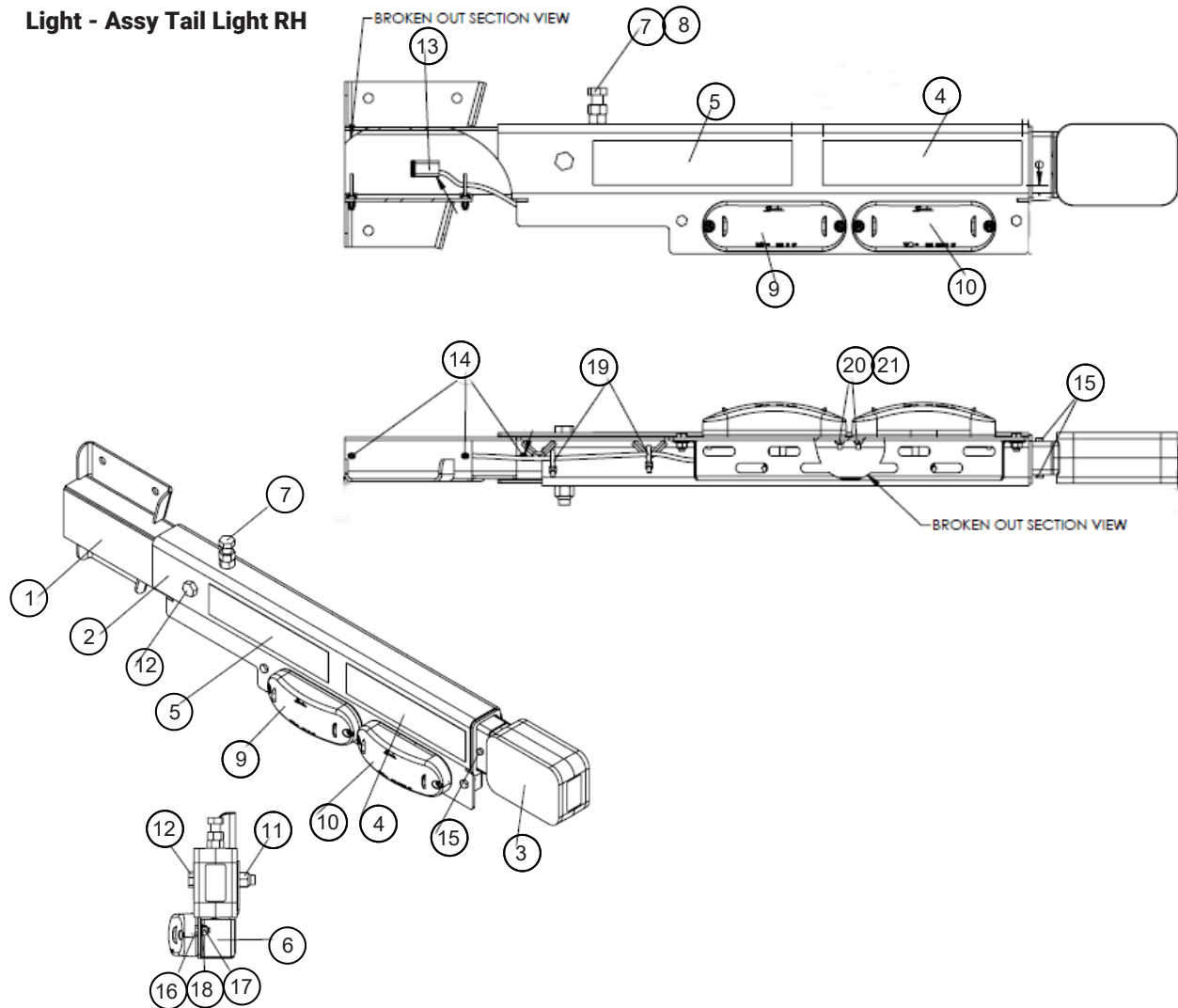
Key	Part No.	Description	Qty
1	325044	Light - Assy Tail Light LH	1
2	325046	Light - Assy Tail Light RH	1
3	36398	Capscrew - .375-16NC X 1 SS	6
4	72054	Nut - Lock .375-16NC SS	6

Light - Assy Tail Light LH


Key	Part No.	Description	Qty
1	325043	Mount - Wldmt Tail Light LH 304	1
2	325217	Extension - Wldmt LH 304	1
3	36539	Capscrew - .5-13NC X 1.5 SS	1
4	36416	Nut - Hex .5-13NC SS	1
5	306430	Tape - Orange Fluorescent 2" X 9" Strip	1
6	323803	Tape - Red Reflective 2 X 9 Strip	1
7	313934	Capscrew - M5 X 12 SS	2
8	313933	Light - Marker	1
9	56355	Nut - Lock #10-24NC SS	4
10	314026	Screw - Panhead #10-24NC X 1.25 SS	4
11	313931	Light - Stop Turn Tail	1

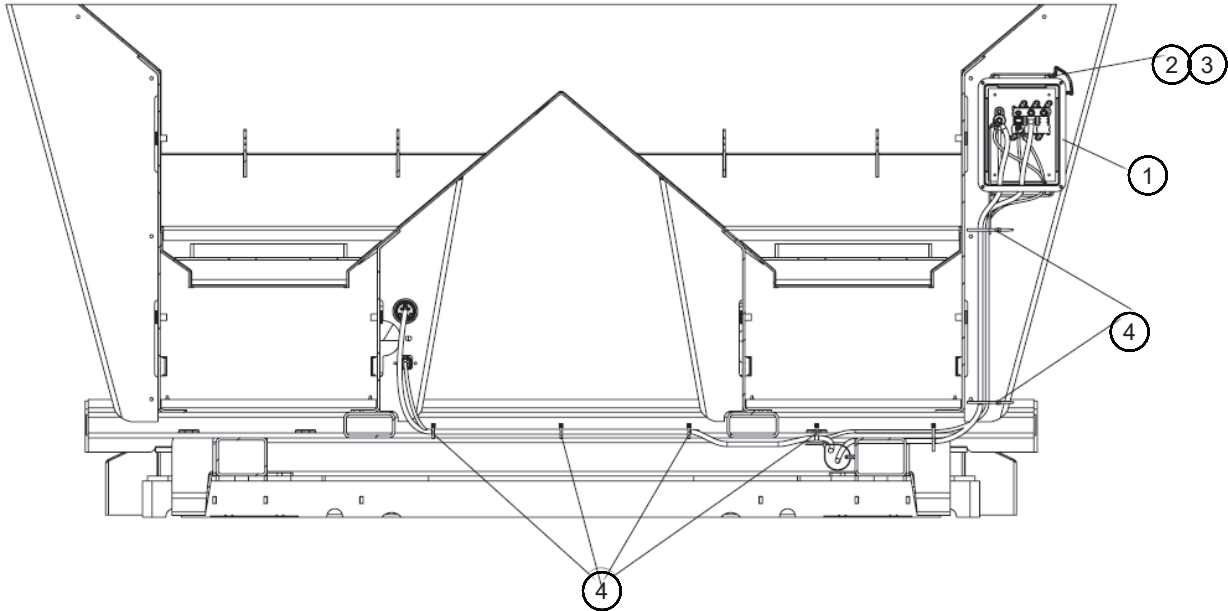
Key	Part No.	Description	Qty
12	313932	Light - Turn	1
13	323513	Harness - Tail Light- Stop Turn Tail	1
14	99674	Tie - Wire	2
15	42034	Nut - Lock .25-20NC SS	2
16	308227	Capscrew - .25-20NC X .625 SS	2
17	36423	Washer - Flat .25 SS	2
18	311806	Tie - Wire Fir Tree	3
19	325220	Cover - Tail Light LH 304	1
20	39016	Nut - Lock .5-13NC SS	1
21	313178	Capscrew - .5-13NC X 3.25 SS	1

Light - Assy Tail Light RH



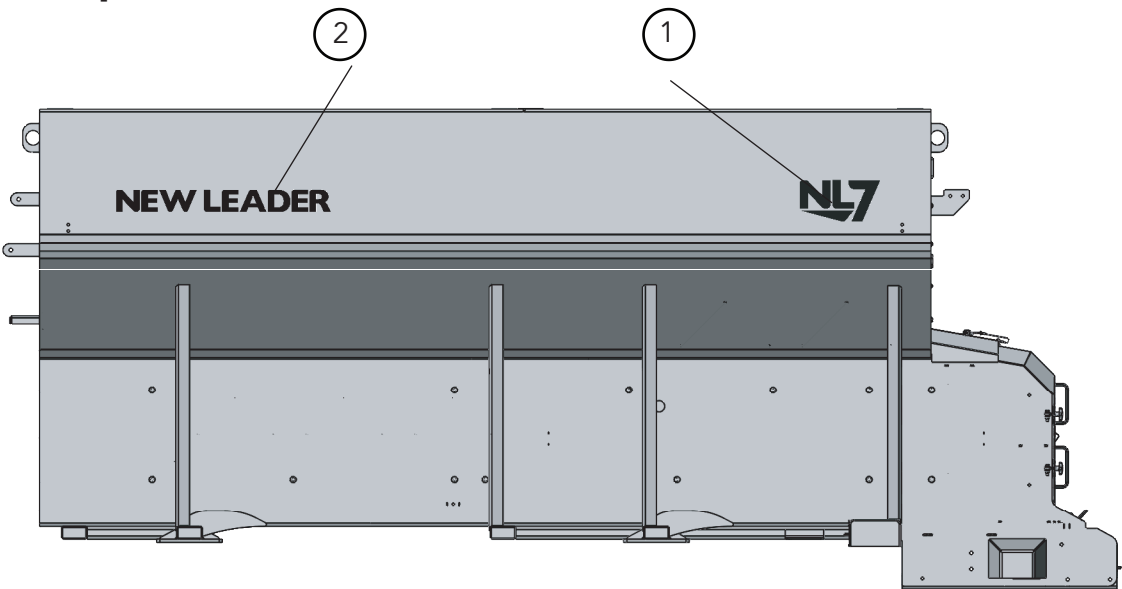
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	325045	Mount - Wldmt Tail Light RH 304	1	12	313178	Capscrew - .5-13NC X 3.25 SS	1
2	325215	Extension - Wldmt RH 304	1	13	323513	Harness - Tail Light	1
3	313933	Light - Marker	1	14	311806	Tie - Wire Fir Tree	3
4	323803	Tape - Red Reflective 2 X 9 Strip	1	15	313934	Capscrew - M5 X 12 SS	2
5	306430	Tape - Orange Fluorescent 2" X 9" Strip	1	16	308227	Capscrew - .25-20NC X .625 SS	2
6	325213	Cover - Tail Light RH 304	1	17	42034	Nut - Lock .25-20NC SS	2
7	36539	Capscrew - .5-13NC X 1.5 SS	1	18	36423	Washer - Flat .25 SS	2
8	36416	Nut - Hex .5-13NC SS	1	19	99674	Tie - Wire SS	2
9	313932	Light - Turn	1	20	56355	Nut - Lock #10-24NC SS	4
10	313931	Light - Stop Turn Tail	1	21	314026	Screw - Panhead #10-24NC X 1.25 SS 4	4
11	39016	Nut - Lock .5-13NC SS	1				

PDC/ISCO Group

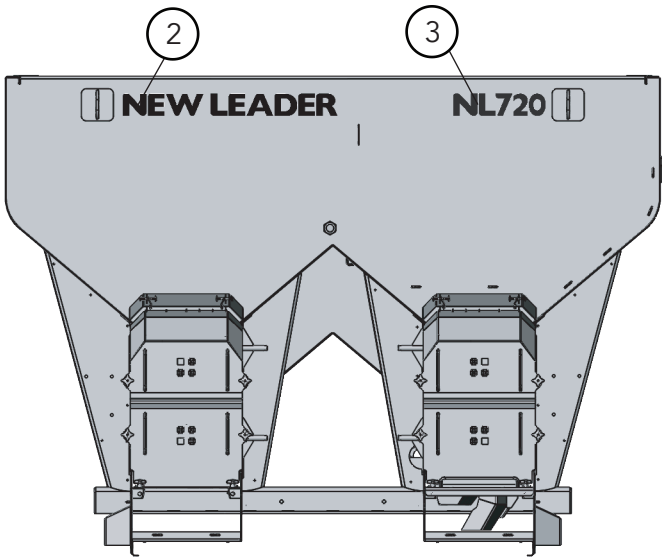


Key	Part No.	Description	Qty
1	323499	Harness- PDC/ISO	1
2	36394	Capscrew - .25-20NC X .875 SS	4
3	42034	Nut - Lock .25-20NC SS	4
4	99674	Tie - Wire	9

Decals
Decor Group

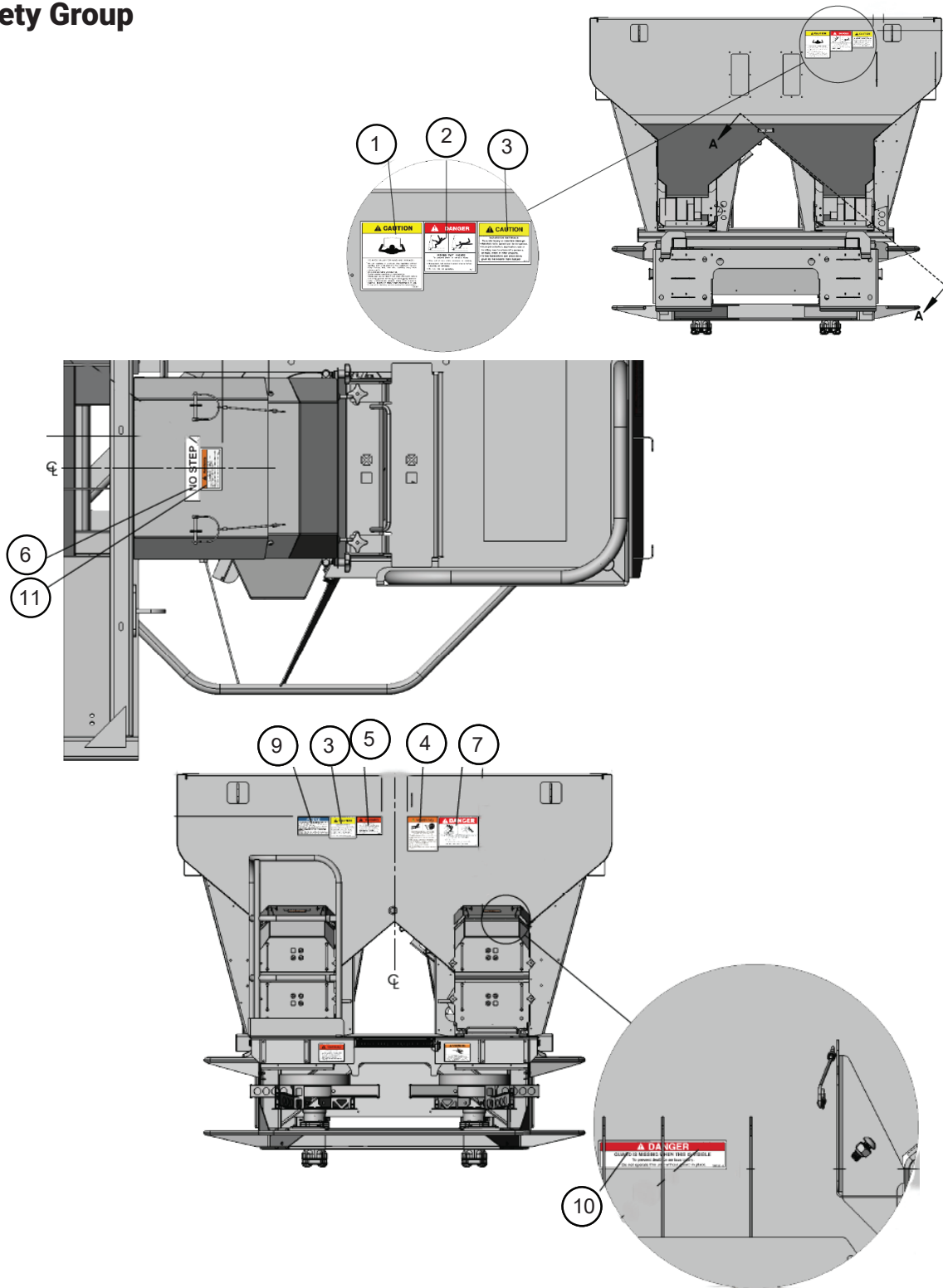


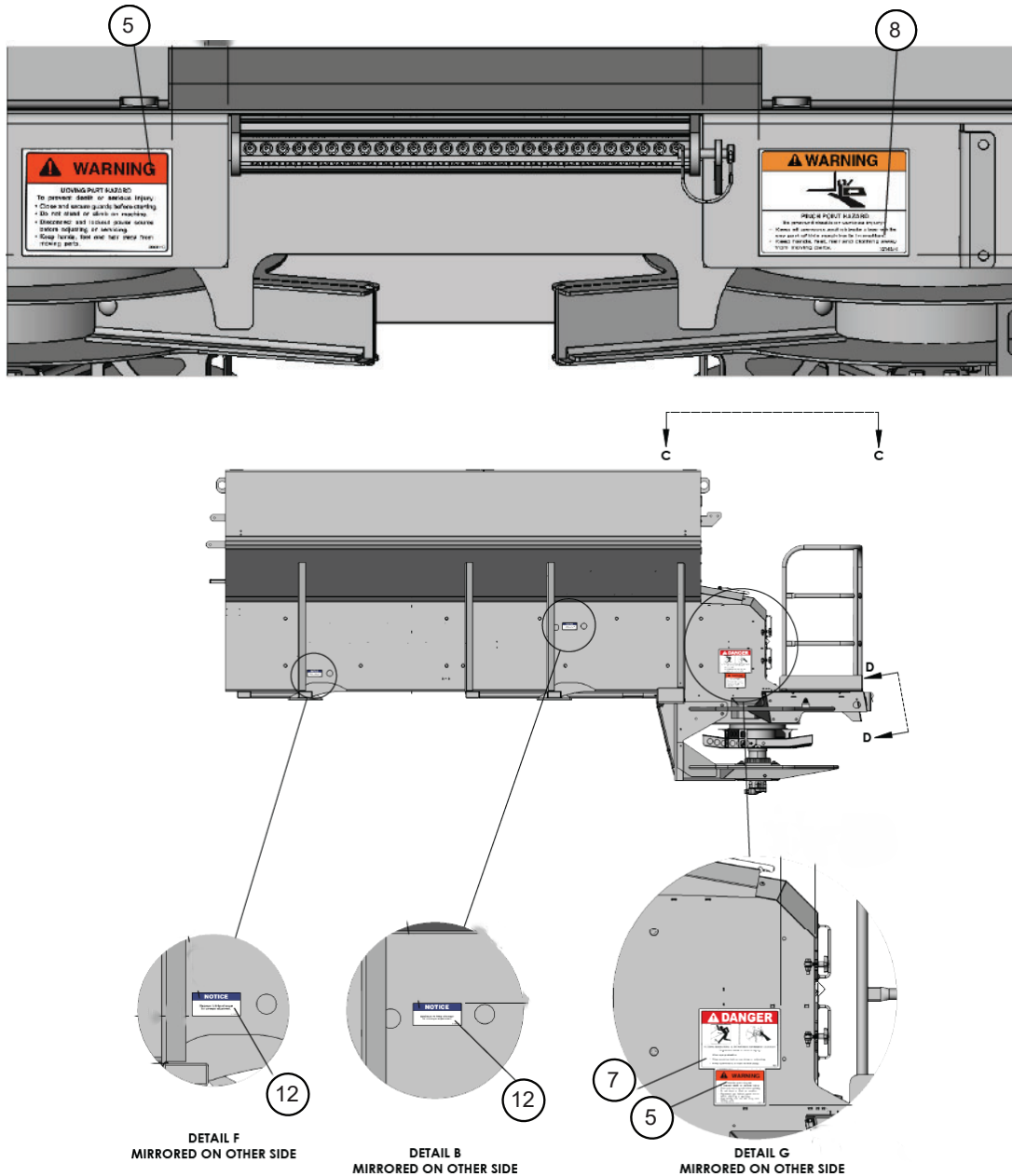
Mirrored on Other Side



Key	Part No.	Description	Qty
1	322083	Decal - NL7 Black	2
2	322277	Decal - New Leader Black	3
3	322084	Decal - NL720 Black	1

Safety Group





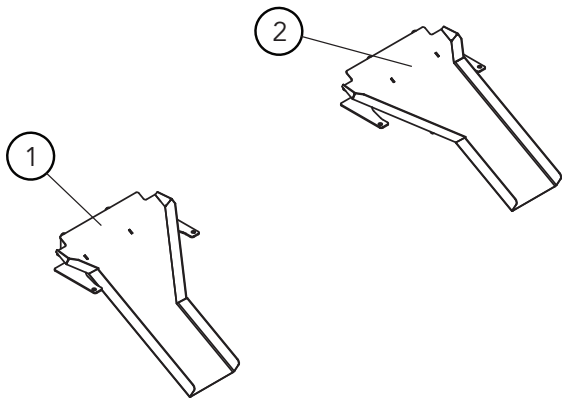
Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
	321792	Decal - Safety		7	368	Decal - Flying PE High Density Film	3
1	150034	Decal - Caution Operation & Maint.	1	8	323632	Decal - Warning Moving Part Hazard	1
2	364	Decal - Danger Moving Part	1	9	312276	Decal - Notice Spread Pattern	1
3	321	Decal - Caution Hazardous Matl	2	10	308191	Decal - Guard is Missing	2
4	39138	Decal - Warning High Pressure Fluid	1	11	315641	Decal - Moving Part Hazard	2
5	55631	Decal - Warning Moving Part Hazard	4	12	325355	Decal - Notice Conveyor Adjustment	4
6	39017	Decal - No Step	4				

Calibration Spread Pattern Test Kit



Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
1	323517	Box - Plastic Storage	1	8	323519	Rope - Marked Red	1
2	323518	Assy - Test Tube Rack	1	9	87201	Stake - Tent	2
3	300507	Test Tube	3	10	323520	Manual - NL720 Spread Pattern	1
4	313963	Tray Collection Blue	3	11	58897	Scale - Density	1
5	87200	Divider - 8.38 X 12.44	3	12	323523	Decal New Leader White/Red	2
6	87332	Funnel	1				
7	70897	Flag	2				

Calibration Chutes



Key	Part No.	Description	Qty	Key	Part No.	Description	Qty
	323366	Chute - Kit Calibration	1	2	321830	Chute - Wldmt CFR RH 304	1
1	321831	Chute - Wldmt CFR LH 304	1				



Figure 2

308908



Figure 4

308909

Key	Part No.	Description
	308907	A calibration test kit is required to determine the proper spread width. Testing will define granular characteristics needed for proper spinner settings.
1	308908	Tester - Hardness
2	308909	Scale - SGN