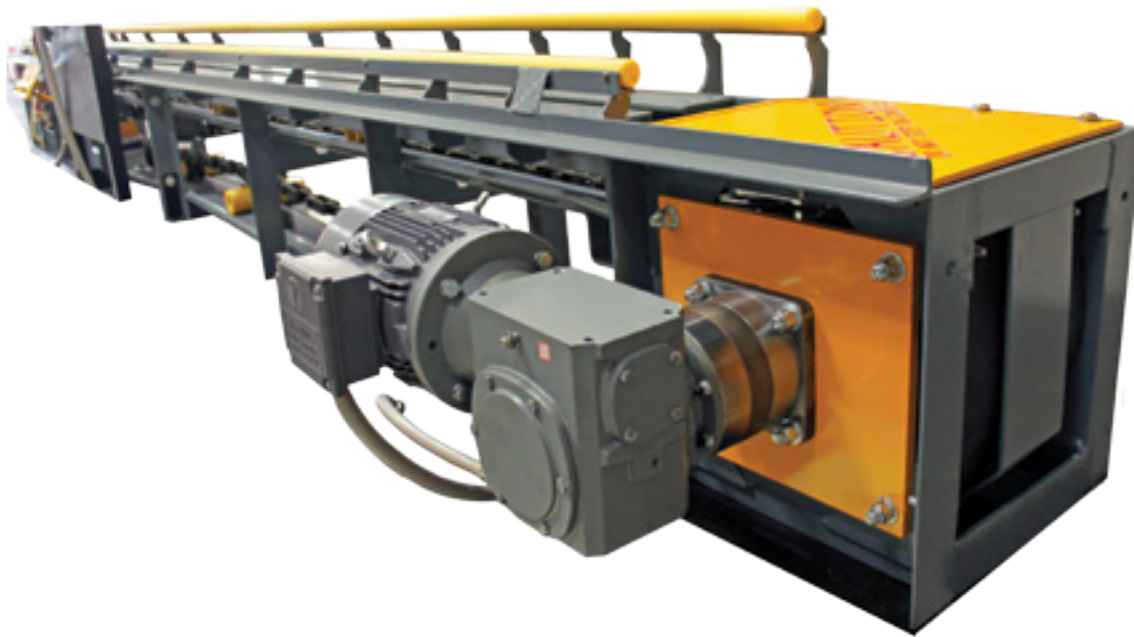


OVER/UNDER
CONVEYOR

Excalibur

INSTALLATION
& PARTS MANUAL



NS CORPORATION

Quality Equipment Since 1961

Revision: 2
Revision Date: 07/20
Approved by: CA



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*Our Quality Policy Is To Meet Customer Requirements By
Ensuring Product Quality, Product Dependability, Customer Support,
Energy Efficiency, Innovation, And Continual Improvement.*

Thanks for your confidence in NS Corporation and our vehicle washing products. If this is your first time as an NS equipment purchaser we welcome you to our family of customers dating back to 1961.

Thank you again if this purchase of equipment is the most recent in your loyal history as an NS customer. We truly appreciate your continued confidence in our company and its products. Your trust in us is the heart of our on-going success.

In today's market every company, no matter the industry, must be Quality conscious. Our view of Quality goes beyond the delivery of equipment fabricated and assembled with exceptional care. In fact, the entire NS staff is dedicated to provide Quality products and Quality Customer Service. Every member of the NS team, including our worldwide Distributor organization, is committed to this sense of pride and professionalism in our efforts to assist you in achieving success in your vehicle washing business.

We want to hear your comments concerning your entire experience with NS during this most recent purchase. Please contact either one of us, or our Customer Service Director, with your report card on our performance.

Thanks again for purchasing your equipment from NS. We appreciate your business.

*Thomas Ennis Sr.
Chief Executive Officer*

3

Product Features

Optional Equipment

It is crucial that you thoroughly read and understand the conveyor manual prior to installation and operation for maximum success. Adhering to the installation instruction and safety precautions in this manual will maximize your equipment's operation and safety.

If you need assistance on any portion of the installation or operation of your Excalibur conveyor system, please feel free to contact your nearest N/S corporation representative or contact N/S customer service for direct assistance: 1-800-412-707

- 2 Ton screw jack for easy and fast spring compression when performing chain maintenance.
- Easily actuate the chain tension release system using any common drill with a 3/4" socket.
- 13 1/2" tire gap with standard inner and outer UHMW guide rails.
- All stainless steel hardware for rust free extended life.
- Stainless steel slider bars with UHMW C-blocks on Chain Take-up box for easy maintenance and rust free operation.
- Chain guides every five foot standard for increased chain life and tracking.
- Single point lubrication panel for easy access.
- 1/2" thick steel top deck
- Heco electric or hydraulic drive system.
- Zero maintenance chain tension via spring tension that does not depend on compressed air.
- Forward pivot anti-jam roller call-up fork.
- Foot operated manual roller call-up with locking mechanism for continues operation.
- Idler sprocket equipped with heavy duty UHMW bushing.
- Equipped with rubber bumpers, rubber Take-Up door and rubber Soft-Drop exit flaps for smooth and quite operation.
- Quick link X458 chain rated at 52000 lbs. tensile strength.
- Single axle four wheel roller dolly for ease of maintenance that can be performed above the top deck.
- Continues operation without compressed air.
- Standard water level-float with Red Beacon light that has a built-in audible alarm to prevent submersion of conveyor and its components.
- Four point pulse switch for precise vehicle tracking throughout the wash cycle.
- Heavy-duty 3/8" thick steel exit cover plate for durability and easy maintenance access.



4

Optional Equipment

- Reclaim pumping systems.
- Water optimizer pumping system with Variable Frequency Drive.
- Spinner Arch with high volume pumping system.
- Flooder Arch.
- Reverse Osmosis system with holding tank.
- Blower systems.
- Above ground reclaim Clarifier system.
- High pressure Prep-Gun systems

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Excalibur Conveyor
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Utility Requirements/Specification

NOTE: N/S Corporation is not responsible for any plumbing or electrical connections or material required to connect equipment to the main utility sources. A more detailed workscope can be provided within the given contract.

Equipment	Voltage/Amperage*	Pneumatics	Car Wash Controller
Electric Drive 5 H.P.	208 & 240 VAC 30 AMP Breaker 400 & 480 VAC 20 AMP Breaker	N/A	(1) Output Function (Run/Start)
Hydraulic Power Pak 10 H.P. Flow Rate 3-11.3 GPM	208/28 240/26 480/13	N/A	(1) Output Function (Run/Start)
Hydraulic Power Pak 15 H.P. Flow Rate 3-13.5 GPM	208/40.3 240/36.4 480/18.2	N/A	(1) Output Function (Run/Start)
Roller Call-up	24/0.3 120/0.2	0.5 CFM @ 60 psi	(1) Output Function (Roller Up)
Pulse Switch	Max Load 10 amp	N/A	(1) Input Function (Four Point Pulse Tracker)
Pit Water Safety Float & Beacon		N/A	(1) Optional Input Function

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Safety Precautions

- Only employees specifically authorized by the Manager will be permitted to enter the wash tunnel for the performance of operational inspections or maintenance.
 - Unless specifically approved by the on-duty location Manager no employee is to enter the wash tunnel when vehicles are being washed.
 - Be continuously cautious when walking through the wash tunnel. Wet floors will cause slippery conditions. Never run through the wash tunnel.
 - Be continuously vigilant when walking through the wash tunnel to avoid bumping into, or tripping over equipment.
 - If you plan to work on any piece of equipment that is higher than your shoulders always use a fiberglass ladder for climbing. Do not use any piece of equipment, pipe, or conduit as a step.
 - Do not attempt any maintenance function on any piece of equipment without personally "locking out" the appropriate electrical disconnect switch.
 - If maintenance work requires any piece of equipment to be operating during the performance of maintenance an additional qualified maintenance person is required to stay at the specific equipment electrical disconnect.
 - A "stop" switch can be reset only by the person who initially stopped the equipment operation.
- 6**
- Electrically driven equipment with manually operated disconnects and or "lock outs" placed in the "OFF" position, should only be unlocked placed in the ON position by same person which initiated the lock out procedure.
 - Two qualified maintenance people must be in attendance when performing repairs or preventive maintenance.
 - Electrical connections and repairs should be performed only by a professional, and licensed Electrician.
 - Do not attempt to repair or replace any plumbing lines under pressure.
 - Keep wash bay clean and free of debris to prevent slippage or trip hazards.
 - Follow all MSDS procedures for all and any chemicals used throughout the facilities.
 - Do not wear any loose fitting clothing around moving equipment.
 - No portion of your body should come in contact with moving equipment.
 - Do not operate any piece of equipment that has any safety shield, cover, or guard improperly installed or removed.
 - Every new employee must be properly trained in safety procedures.
 - Employees are required to attend scheduled safety meetings

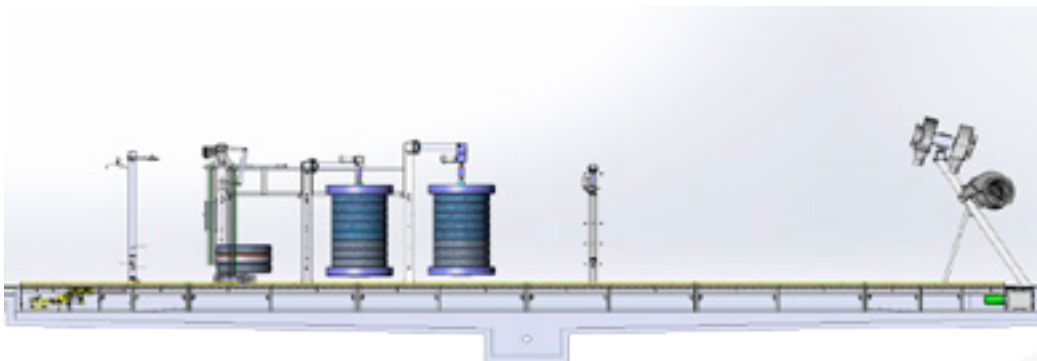


Site Pre-Installation Inspection

The following is a list of items that need to be verified for the successful installation of your new Excalibur Over-Under conveyor.

1. Length of conveyor pit should be at least 6" longer than total length of conveyor ordered. For example if your conveyor order is for 80' ft. of conveyor the pit should be 80'-6" total length.
2. The conveyor shelf depth must be a minimum of 21" and the width of conveyor shelf must be 19" wide. Refer to N/S slab drawings for further detail of elevation and slope.
3. What will be the conveyor operation Front Wheel Pull or Rear Wheel Push?
4. Verify site voltage for your new conveyor drive system which will ship to operate on one of the following voltage options; three phase 208, 230 or 460 vac.
5. Verify location of utility chase pipes from conveyor trench to nearest wall.
6. Verify Sewer drainage location and pipe size.
7. Verify the location of electrical panels and or location of hydraulic power pack.
8. Verify finished grade of both entrance and exit of car wash tunnel.
9. Verify location and condition of imbedded steel angles. For existing conveyor pits this is a must check since the embedded steel is what will secure the conveyor frame to the bit for years to come. If the material has severe flaking due RUST it may require replacement.
10. Verify correlator pit is correctly aligned with conveyor. Refer to N/S slab drawing for details.
11. Verify tunnel entrance and exit doors in relation equipment center line.
12. All concrete work must dimensionally verified and completely cured prior to installation.

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Note: The wash tunnel concrete floor, conveyor pit, conveyor shelf, drainage lines, chase pipes and iron work MUST be formed and poured exactly to the specifications offered by N/S Corporation. Any deviation or errors in the slab shall be the responsibility of the customer and or contactor.

Tools and Materials

Tools (not included, responsibility of the installer.):

- Forklift for unloading and installation.
- Welding machine with appropriate gear.
- Chock line or string for use as guide line.
- American standard ½" Ratchet Set.
- American standard Wrench Set.
- Safety glass for all personnel.
- Six foot level with ¾" offset legs.
- Torpedo level.
- Tape measure.
- One 5' Pry Bar.
- One 2' Pry Bar.
- Tin snips.
- Sledge hammer.
- Two 8" bottle jacks.
- Hammer drill with ¼" bit.
- Two wood blocks 2"X4"X10" long.
- 4" grinder and extension cords.
- 5' foot piece of lift rated chain with coupling hardware.
- Welding rod or wire. (Not Included)

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Included Materials:

- Conveyor connecting hardware.
- Conveyor frame top side support ¼" x 2" x 2" x 4" angles iron.
- Conveyor leg support ¼" x 2" x 2" x 4" angle iron.
- Cold Galvanizing spray paint.
- Gray touchup spray paint.
-

Estimated Installation time and man power

8 to 12 hours depending on experience level and excluding any problems (estimated time for erection and installation of 140' Excalibur Conveyor).

Manpower:

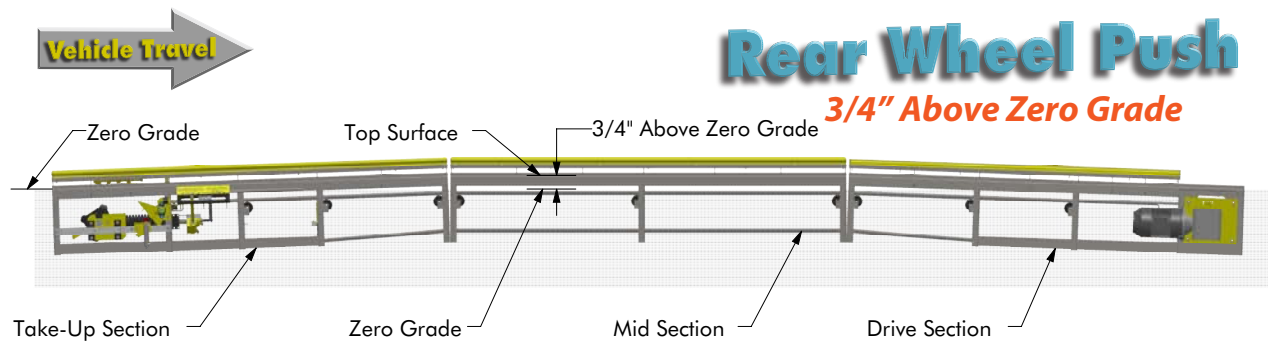
- Three persons. (Estimated time only, for new site; does not include removal of resiting conveyor.)

Frame Installation Procedure

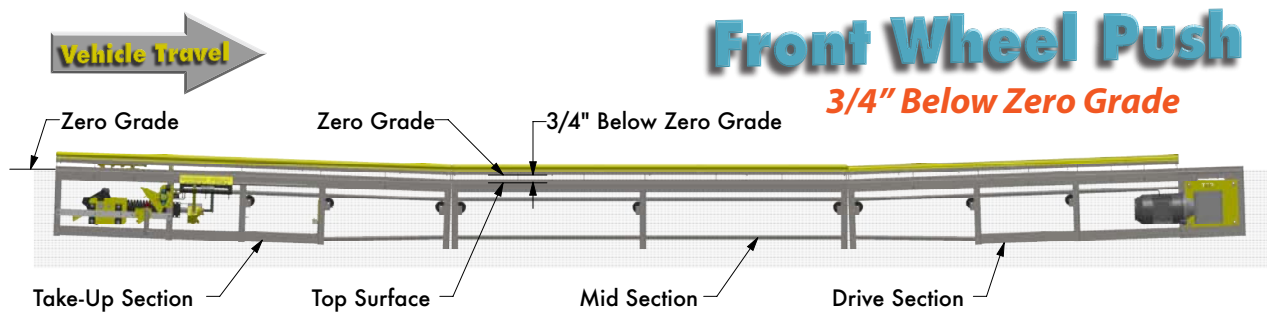
Steps 1-3

Step 1: Determine if your conveyor will be installed for front wheel pull or rear wheel push. See Illustration Below.

Step 2: Verify all pit dimensions are to N/S Corporation specifications. Place all the conveyor sections in the pit starting with the entrance Take-up section.



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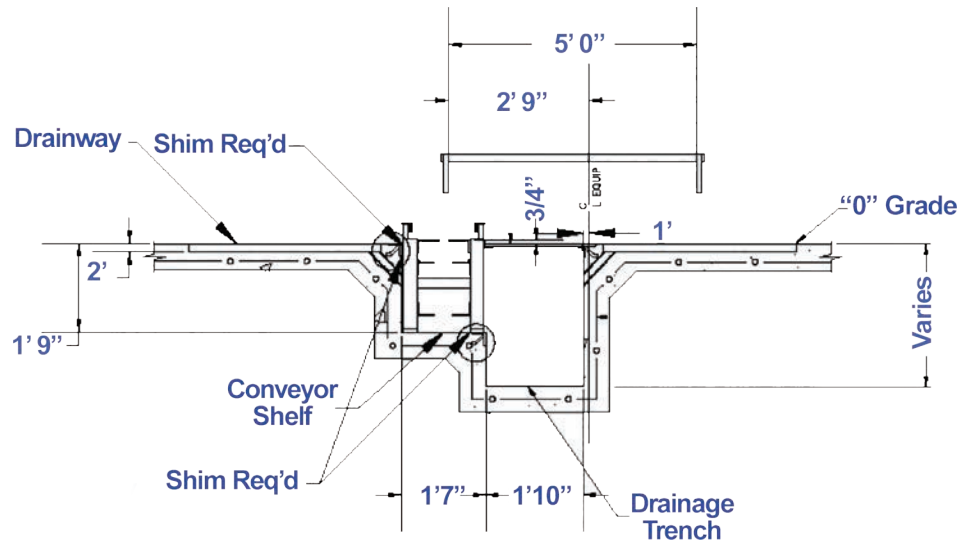
Attach a leg at each end of the 60" level. Make one leg $\frac{3}{4}$ " longer than the other. Use this to adjust the height of the conveyor with respect to the passenger side of the floor.

Step 3: Establish a chalk line marking the Equipment center line from one end of the tunnel to the other end as a reference for aligning the conveyor. Place the entrance (take-up) section in the pit so that it is approximately $\frac{1}{4}$ " to $\frac{1}{2}$ " from the cross-angle at the start of the pit. (This is the correlator pit angle where correlator is installed.)

See Illustration on Next Page

Installation

Step 4

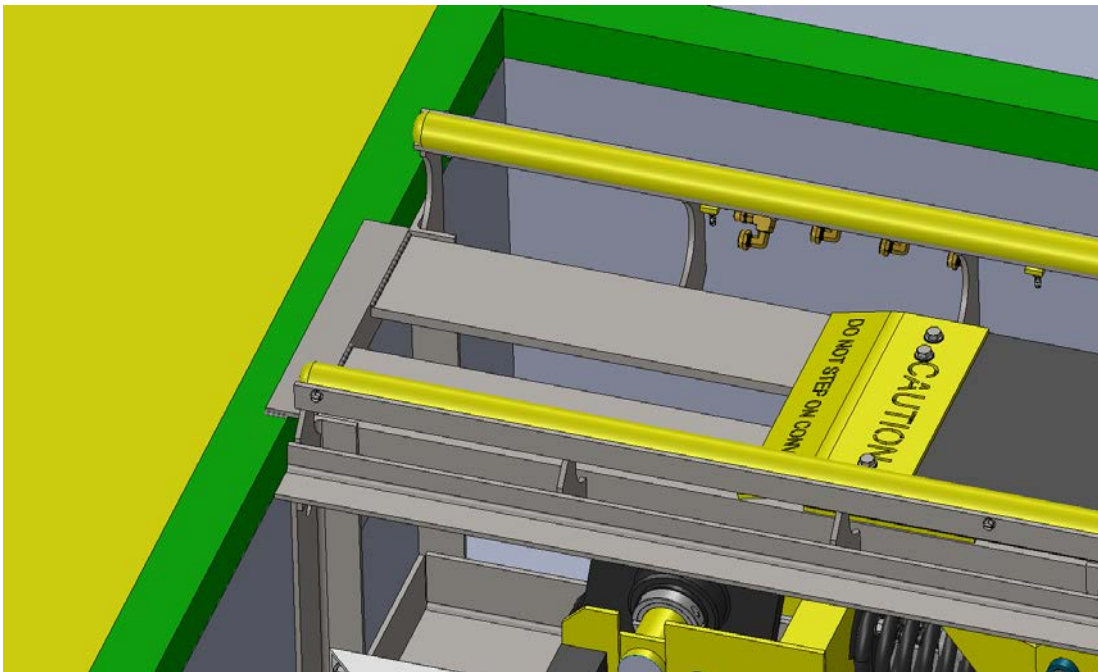


Note:

- 1) Conveyor track to be 3/4 ABOVE 0 grade for **REAR WHEEL PULL**
- 2) Conveyor track to be 3/4 BELOW 0 grade for **FRONT WHEEL PUSH**

10 Step 4: Level the section with the entrance end at floor height and tack weld it to the cross-angle. Use the supplied 1/4" x 2" x 2" x 12 1/2" long steel angle to bridge the gap between the correlator angle and the conveyor. Using a small hydraulic jack, raise the free end of the conveyor section to the desired elevation. (3/4" above zero grade for rear wheel push; 3/4" below zero grade for front wheel pull.)

See Illustration Below.

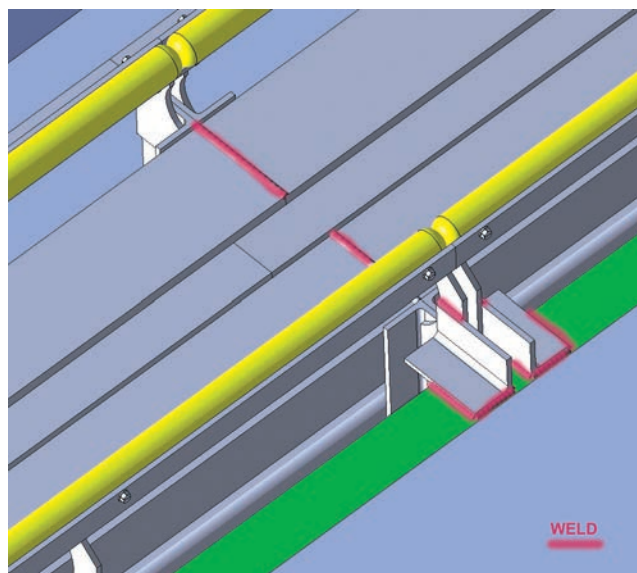
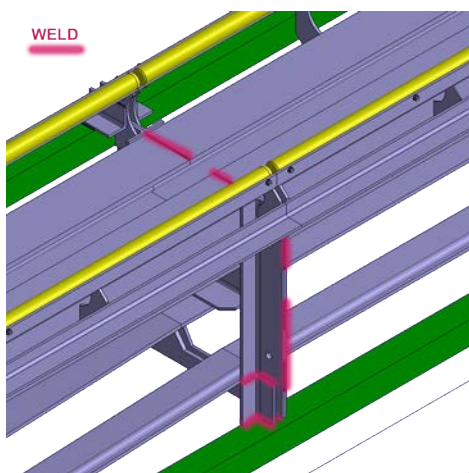


Installation

Steps 5-7

Step 5: When the conveyor section is at the right elevation, level cross ways using a Torpedo level, and align with the chalk line, tack weld a supplied $\frac{1}{4}$ "x 2"x 2"x 4" support angle to each of the conveyor legs. Each and every conveyor frame leg must have a support welded to both top and bottom embedded angle.

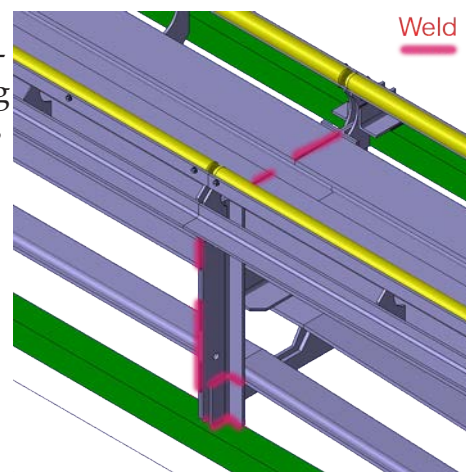
See Illustrations Below.



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Step 6: When the first (Take-up) section of the conveyor is in place, using your jacks and level, raise the second section into place and bolt the two together. When the second section is properly aligned, tack weld the two sections together and tack weld the legs as performed on the entrance Take-up section. Repeat the procedure for each of the remaining mid-sections and make sure to keep the conveyor sections aligned with equipment center line.

Step 7: When you get to the last section (drive-off section), put it in place and fasten it to the previous mid-section. With your jack, set the leaving end level with the existing floor (zero grade) and tack weld it in place as the previous sections.



Installation

Steps 8-11

Step 8: Remove the drive-section access plate. Tack weld the supplied “L” shaped (Gap Filler) steel plate flush to the top surface of the conveyor frame. The plate will extend over the embedded steel angle, tack weld the plate to the embedded steel.

Step 9: Once the entire Excalibur conveyor is tacked into place verify that it runs straight and true down equipment center line before welding the section together and onto the embedded steel angle.

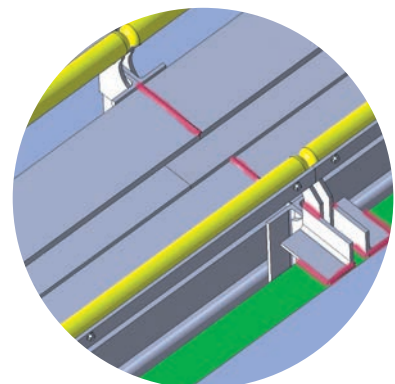
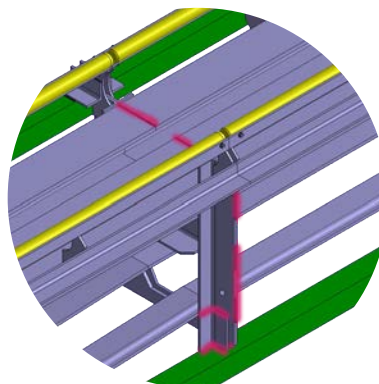
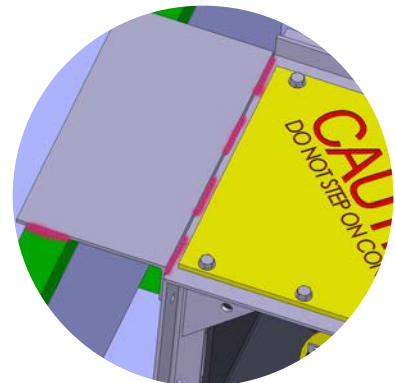
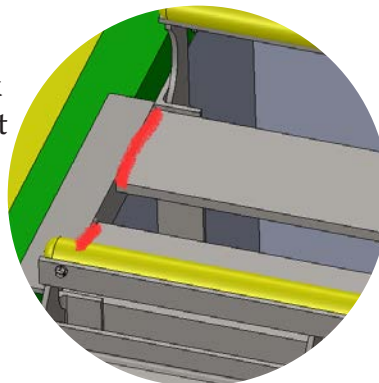
See Illustration Below for welding points on frame.



12

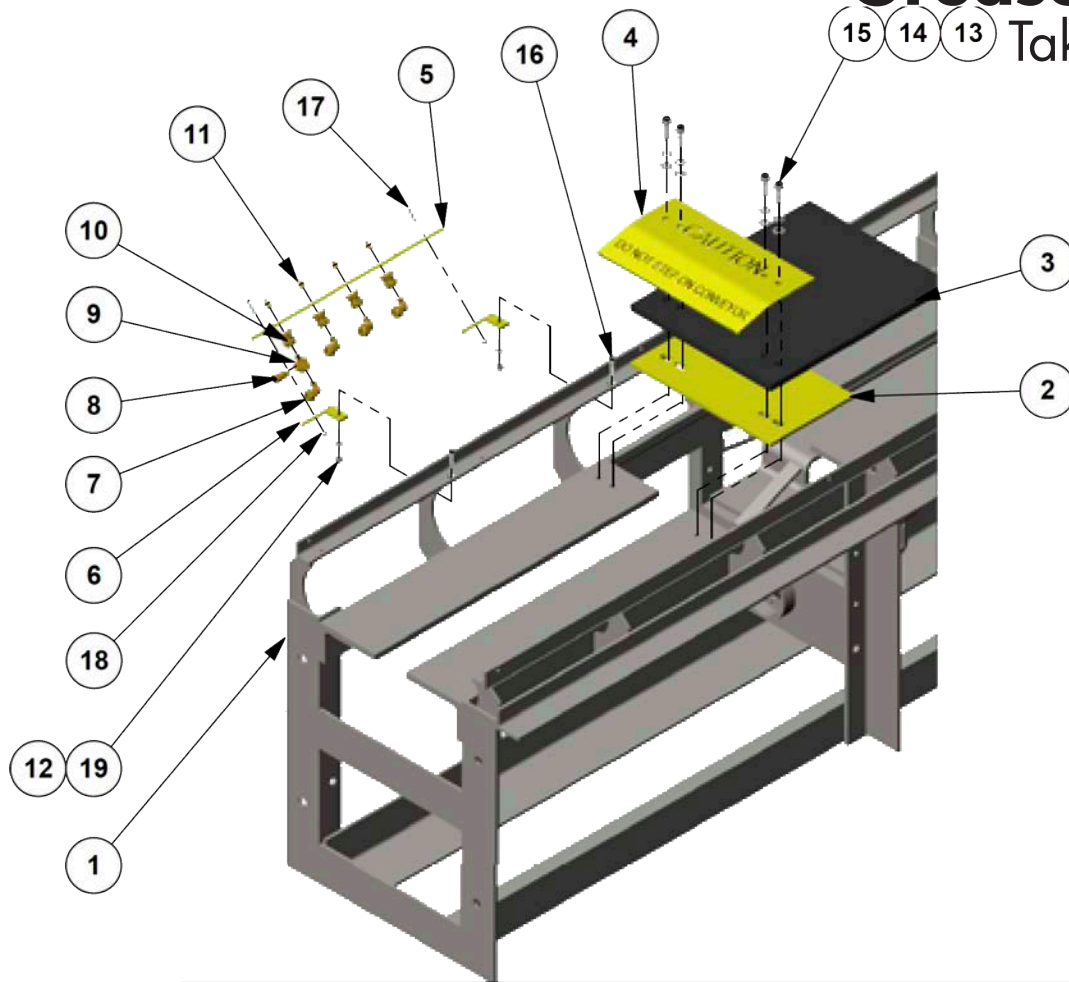
Step 10: Grind any and all welds that will come in contact with vehicle tires and rims. The top deck mating point between sections must be welded and ground smooth to void scuffing roller dolly's.

Step 11: Use spray paint to touchup all welded point on the conveyor frame.



Grease Points

Take-up Door Details



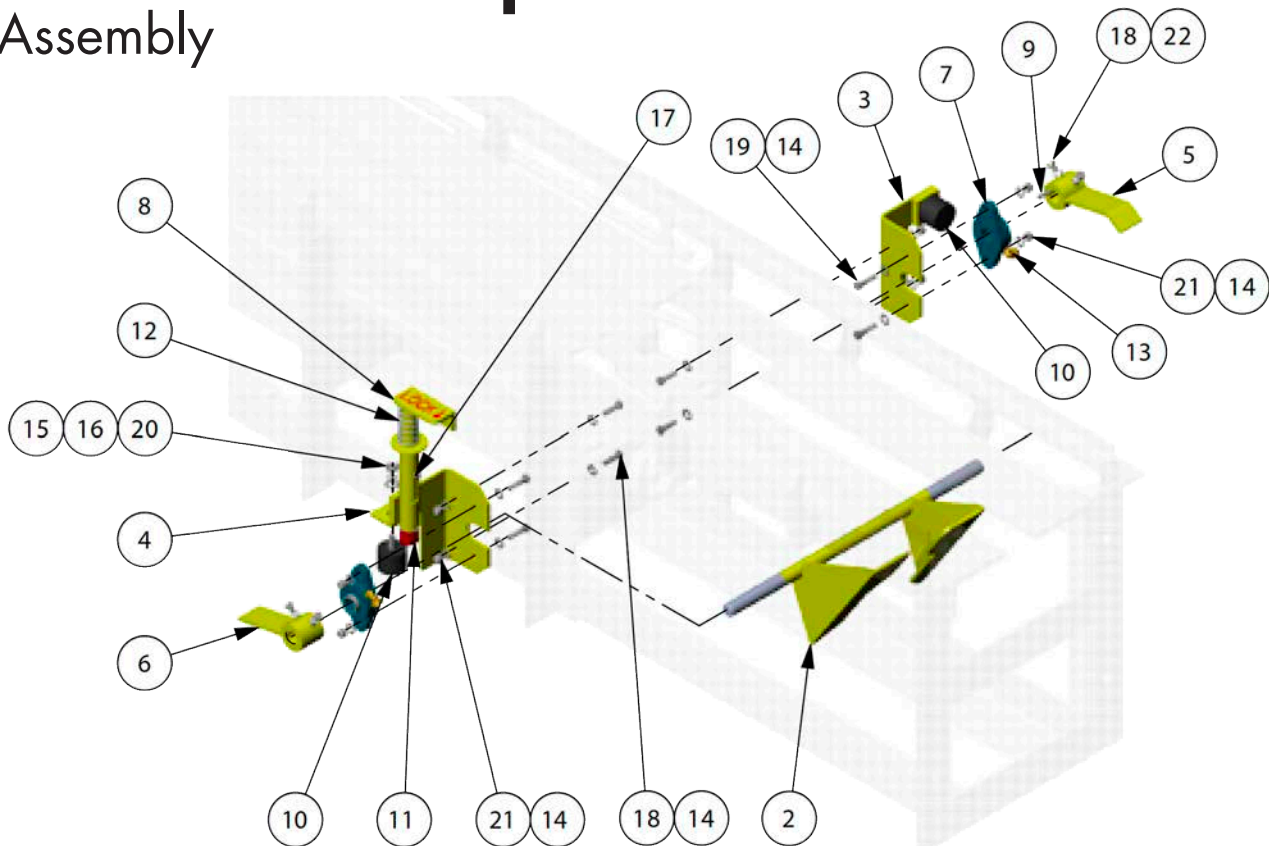
13

Item No.	PART #	DESCRIPTION	QTY
1	900-0153	OVER/UNDER TAKE-UP FRAME	1
2	900-0172	TAKE UP LOWER SUPPORT PLATE X458 CHAIN	1
3	900-0171	RUBBER TAKE-UP PLATE X458 CHAIN	1
4	900-0173	UPPER TAKE-UP SUPPORT PLATE X458 CHAIN	1
5	900-0198	LUBE MAINTENANCE PLATE	1
6	900-0198-1	LUBE MAINTENANCE PLATE BRACKET	2
7	405-1078	90° ELBOW, Ø 3/8 X 1/8 NPT, BRASS COMPRESSION TUBE FITTING	4
8	405-1079	STRAIGHT ADAPTER, Ø 3/8 X 1/8 NPT, BRASS COMP TUBE FITTING	1
9	550-1495	TEE, 1/8 NPT, FFXFM, BRASS	1
10	407-1077	THROUGH WAL COUPLING, 1/8 NPT, BRASS	4
11	400-0000	STRAIGHT GREASE FITTING, 1/8 NPT, BRASS	4
12	820-1992	FLAT WASHER, Ø 1/4, S.S.	2
13	870-1705	FLAT WASHER, Ø 3/8, S.S.	4
14	820-1881	LOCK WASHER, Ø 3/8, S.S.	4
15	820-3086	CAP SCREW, 3/8-16 X 1-1/4, S.S.	4
16	820-1227	FLAT-HEAD SOCKET CAP SCREW, Ø 1/4 X 1-1/2, S.S.	2
17	860-1067	PAN HEAD MACHINE SCREW, #10-24 X 1, S.S.	2
18	840-1903	LOCK NUT, #10-24, S.S.	2
19	840-1848	LOCK NUT, Ø 1/4-20, S.S.	2

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Manual Take Up & Fork Assembly



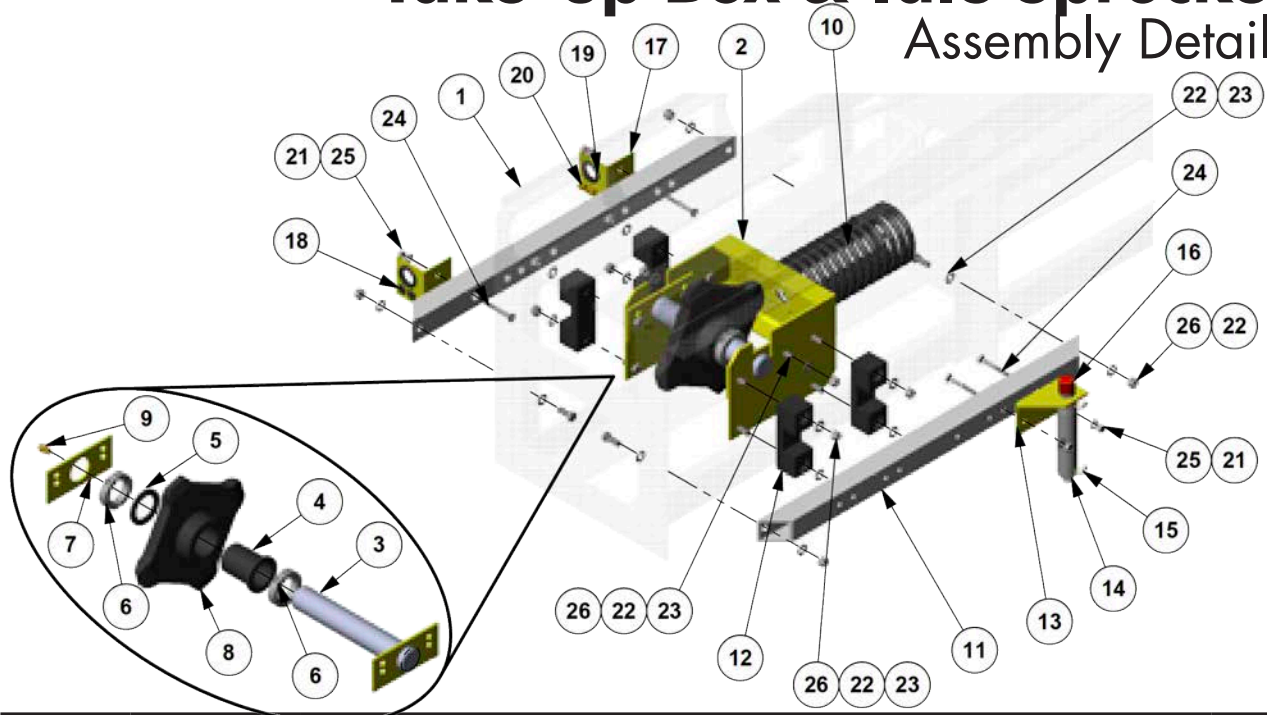
14

Item No.	PART #	DESCRIPTION	QTY
1	900-0153	Over/Under Take-Up Frame	1
2	900-0272	Fork For X458 Chain Single Axle Dolley	1
3	900-0271	Bearing Mount W/Up Position Bumper Stop	1
4	900-0270	Bearing Bracket W/Down Position Bumper	1
5	900-0274	Roller-Up Handle Angled For Air Cylinder Side	1
6	900-0275	Roll-Up Handle Manual Side	1
7	610-1123	Bearing, Ø 1, 2 Bolt Flange	2
8	900-0273	Manual Roller Call-Up, Take Up Section	1
9	135-1401-3	Keystock, 1/4 X 1/4 X 3 Lg, Cr Steel	2
10	640-1400	Black Bumper, 1½	2
11	640-1607	Metal Core Red Hard Bumper	1
12	765-2344	Compression Spring, Ø 1.46 X 3.00, Zinc-Plated	1
13	405-1078	90° Elbow, Ø 3/8 X 1/8 Npt [Brass Compression Tube Fitting]	2
14	870-1705	Flat Washer, Ø 3/8, S.S.	16
15	870-1704	Flat Washer, Ø 1/2, S.S.	1
16	870-1350	Lock Washer, Ø 3/8, Zinc	1
17	820-1204	Cap Screw, Ø 1/4-20x1-1/4, S.S.	1
18	820-3086	Cap Screw, Ø 3/8-16x1-1/4, S.S.	8
19	820-1412	Cap Screw, Ø 3/8-16x1-1/2, S.S.	4
20	840-1325	Jam Nut, Ø 1/2-13, S.S.	1
21	840-1907	Lock Nut, Ø 3/8-16, S.S.	8
22	840-1101	Hex Nut, Ø 3/8-16, Ss	4

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Rev: 2

Take-up Box & Idle Sprocket Assembly Details



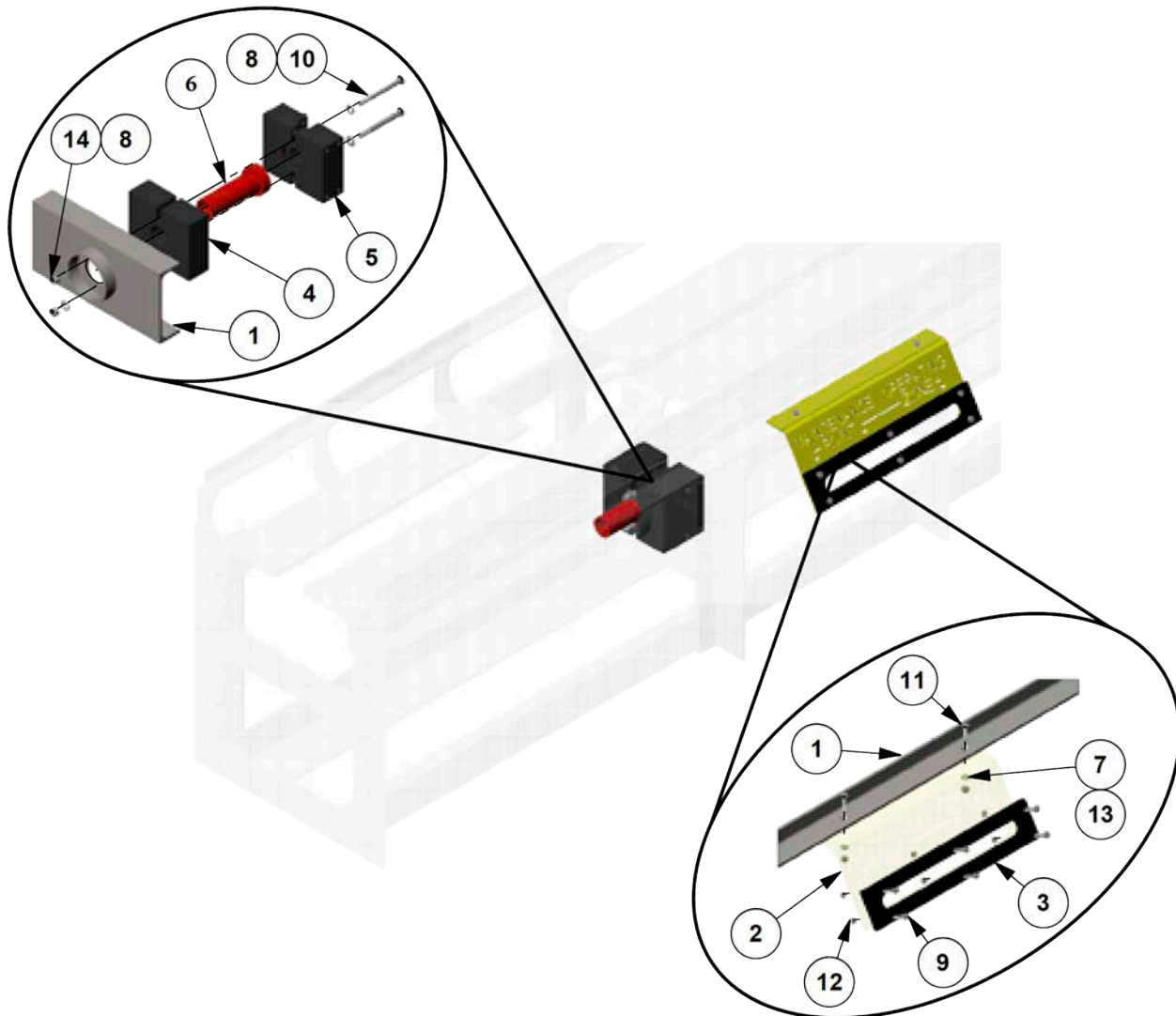
Item No.	PART #	DESCRIPTION	QTY
1	900-0153	Over under conveyor take-up section frame	1
2	900-0157	Slider box, take-up x458 conveyor	1
3	900-0145	Shaft, take up sprocket assembly x458 assembly	1
4	160-0492	Sleeve, uhmw take up sprocket x458 chain	1
5	165-1210-.25	Washer uhmw thrust	1
6	680-2545	Two-piece collar, 2, zinc plate	2
7	900-0145-1	Plate, take up sprocket shaft x458 chain	1
8	770-1120	Sprocket x458 c4 4.0310 T4	1
9	405-1079	Straight adapter, 3/8 x 1/8 npt, brass compression tube fitting	1
10	765-1107	Ø 4 i.D. Heavy-load coil spring brass compression tube fitting]	1
11	900-0183	Conveyor take-up rail, ss	2
12	900-2773	Take up box uhmw c block	4
13	900-0185	Air cylinder bracket, roller call-up	1
14	440-1195	Air cylinder,Ø 1-1/2 x 4	1
15	430-1336	90° elbow, 1/4 x 1/8 npt, push-to-connect tube for air	2
16	640-1607	Metal core red hard bumper	1
17	900-0184	Lube tube guide	2
18	850-1008	Ø 5/8 black grommet	2
19	850-1007	Ø 1-1/2 black grommet	2
20	400-1882	Through wall straight connector, 1/4, brass	2
21	870-1705	Flat washer,Ø 3/8, S.S.	4
22	870-1704	Flat washer,Ø 1/2, S.S.	18
23	820-3069	Cap screw, 1/2-13 x 1-1/4, S.S.	14
24	820-1232	Flathead socket cap screw, 3/8 x 3, S.S.	4
25	840-1907	Lock nut,Ø 3/8-16, S.S.	4
26	840-2003	Lock nut,Ø 1/2-13, S.S.	14

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Tensioning System

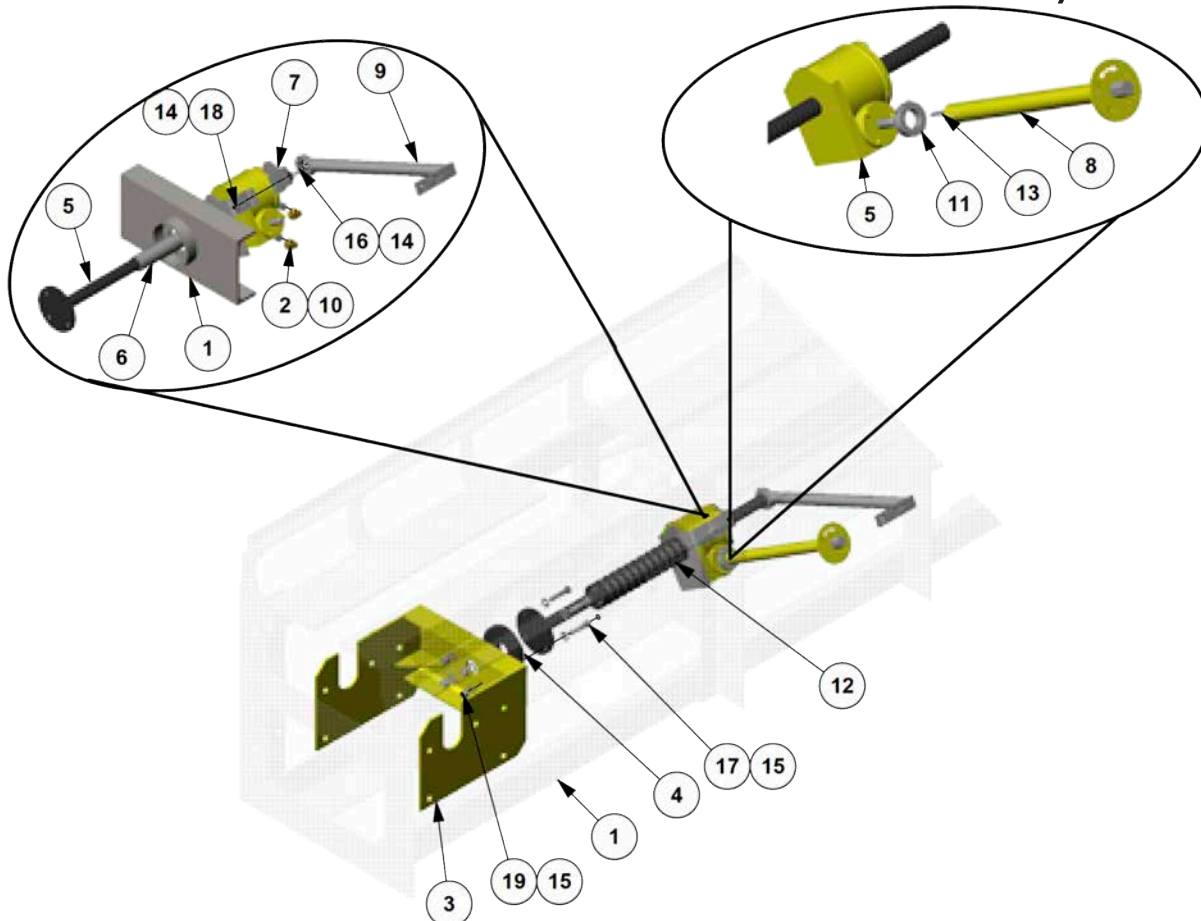
Guide Plate Details

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Item No.	PART #	DESCRIPTION	QTY
1	900-0153	OVER UNDER CONVEYOR TAKE-UP SECTION FRAME	1
2	900-0182	CONVEYOR TENSIONING SYSTEM GUIDE PLATE	1
3	900-0180	UHMW TENSION POSITIONING GUIDE	1
4	900-0192	INNER TENSION BLOCK BUSHING	1
5	900-0191	OUTER TENSION BLOCK BUSHING	1
6	900-0193	BUSHING, TENSIONING BLOCKS	1
7	820-1992	FLAT WASHER, Ø 1/4, S.S.	2
8	870-1705	FLAT WASHER, Ø 3/8, S.S.	4
9	820-1204	CAP SCREW, Ø 1/4- 20 X 1-1/4, S.S.	6
10	820-3088	CAP SCREW, Ø 3/8-16 X 4, S.S.	2
11	820-1227	FLAT-HEAD SOCKET CAP SCREW, Ø 1/4 X 1-1/2, S.S.	2
12	840-1903	LOCK NUT, #10-24, S.S.	6
13	840-1848	LOCK NUT, Ø 1/4-20, S.S.	2
14	840-1907	LOCK NUT, Ø 3/8-16, S.S.	2

Screw Jack & Mounting Assembly Details



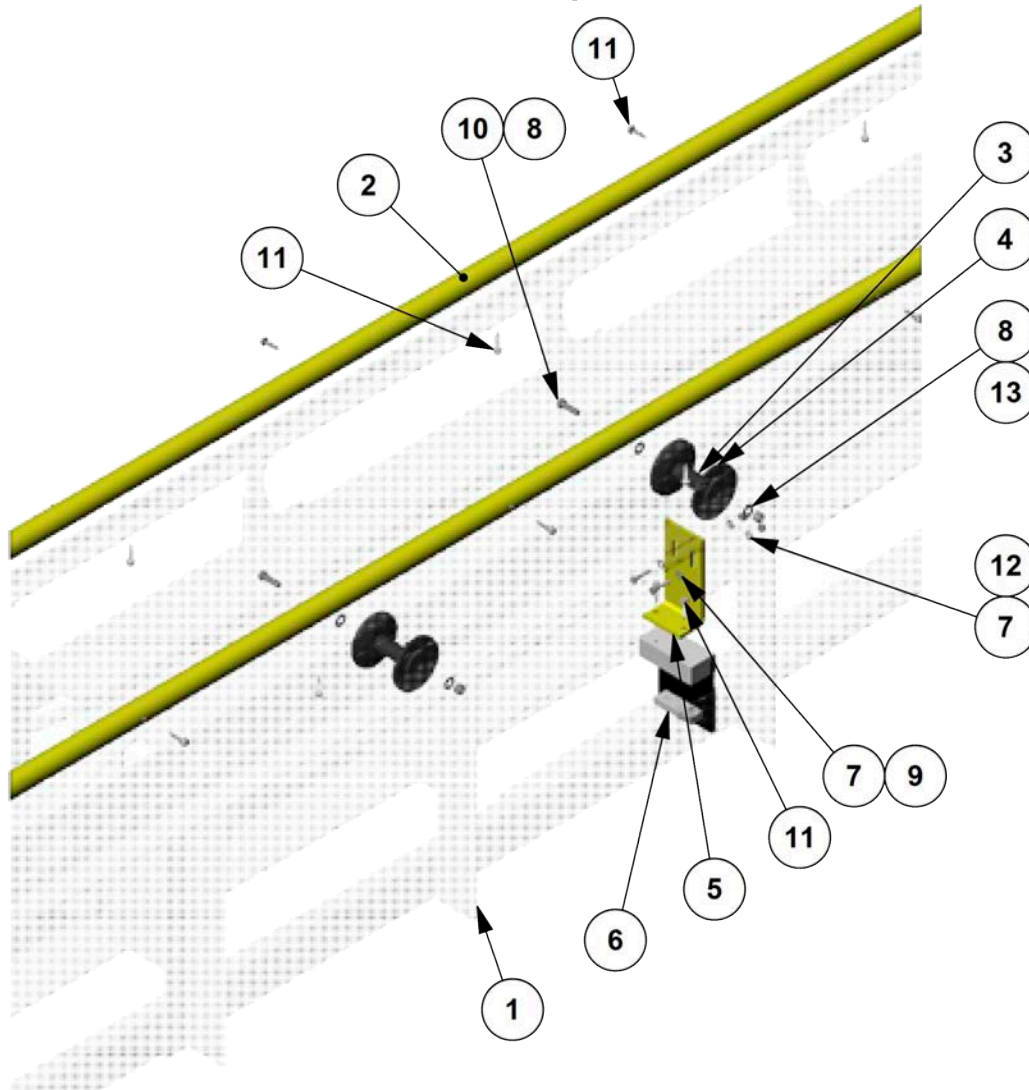
17

Item No.	PART #	DESCRIPTION	QTY
1	900-0153	OVER/UNDER TAKE-UP FRAME	1
2	405-1078	90° ELBOW, Ø 3/8 X 1/8 NPT BRASS COMPRESSION	2
3	900-0157	SLIDER BOX, TAKE-UP X458 CONVEYOR	1
4	900-0199	JACK SCREW SPACER	1
5	440-1271	SCREW JACK 2 TON 24-1 RATIO	1
6	900-0197	SCREW JACK PROTECTOR 2	1
7	900-0196	SCREW JACK PROTECTOR 1	1
8	900- 0187	TENSION JACK DRIVE SHAFT	1
9	900-0181	TENSION POSITIONING STOP INDICATOR	1
10	400-0004	GREASE FITTING ADAPTER, Ø 1/4-28 X 1/8 NPT, STEEL	2
11	680-1172	TWO-PIECE COLLAR, Ø 1, S.S.	1
12	005-4001	FLEXIBLE BELLOWS 1-3/4	1
13	900-1499	STANLESS STEEL KEY FOR SCREW JACK	1
14	820-1992	FLAT WASHER, Ø 1/4, S.S.	4
15	870-1705	FLAT WASHER, Ø 3/8, S.S.	8
16	820-1204	CAP SCREW, Ø 1/4- 20 X 1-1/4, S.S.	2
17	820-3087	CAP SCREW, Ø 3/8-16 X 1-3/4, S.S.	4
18	840-1848	LOCK NUT, Ø 1/4-20, S.S.	2
19	840-1907	LOCK NUT, Ø 3/8-16, S.S.	4

Roller Chain Guide

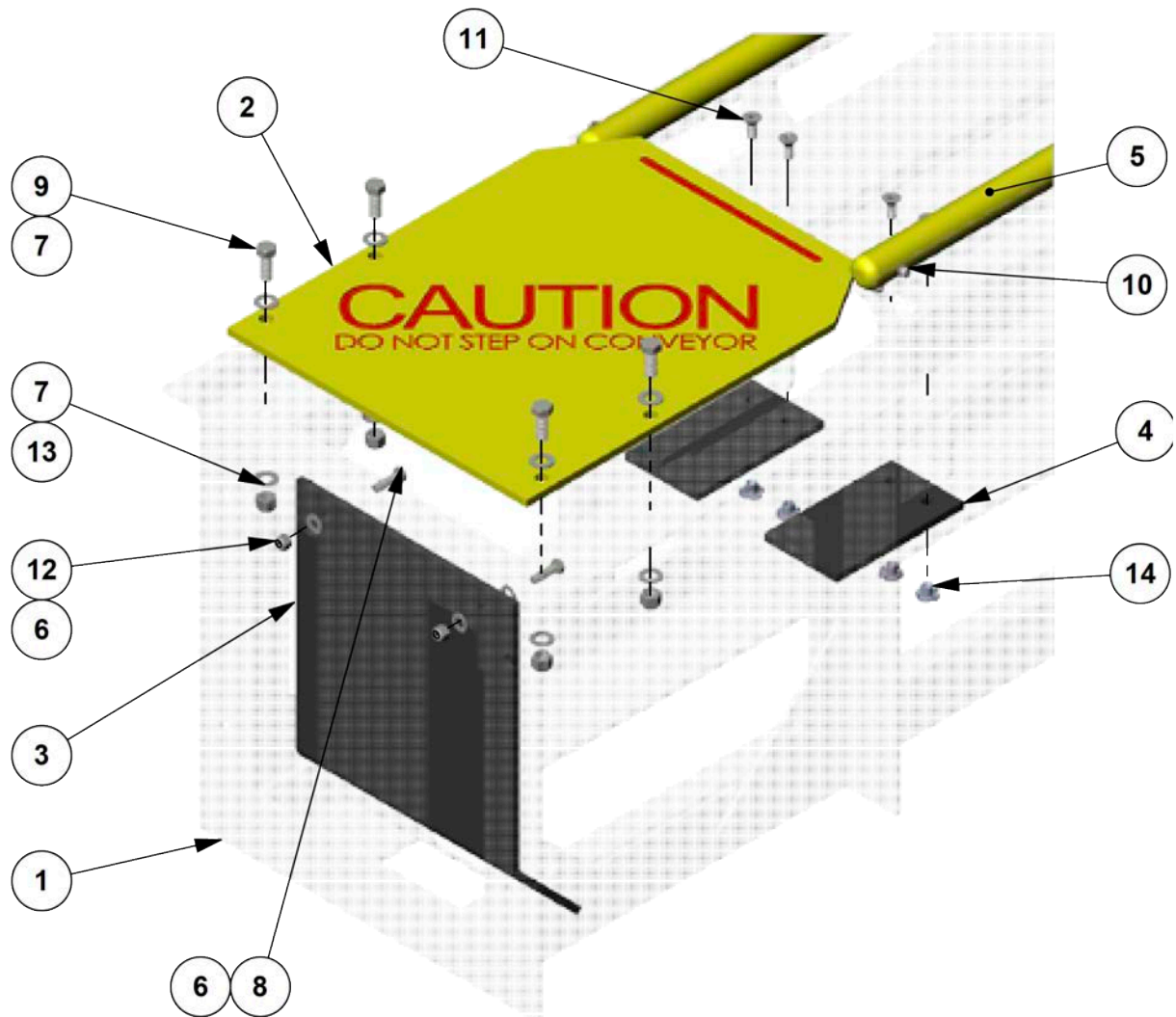
Roller Location Switch Assembly Details

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Item No.	PART #	DESCRIPTION	QTY
1	900-0153	OVER/UNDER TAKE-UP FRAME	1
2	900-0140	ROUND BAR, Ø1½ X 120 LG, UHMW YELLOW	2
3	160-1102-A	CENTER ROLLER X458 CHAIN GUIDE	3
4	160-1101	SIDE ROLLER X458 CHAIN GUIDE	6
5	900-0186	ROLLER PRESENT SWITCH BRACKET	1
6	240-2650	ROLLER LOCATION SWITCH N/O	1
7	820-1992	FLAT WASHER, Ø 1/4, S.S.	4
8	870-1705	FLAT WASHER, Ø 3/8, S.S.	6
9	820-1204	CAP SCREW, Ø 1/4-20 X 1¼, S.S.	2
10	820-3086	CAP SCREW, Ø 3/8-16 X 1¼, S.S.	3
11	820-1241	SLOTTED HEX TAP SCREW, #14 X 1¼, S.S.	24
12	840-1848	LOCK NUT, Ø 1/4-20, S.S.	2
13	840-1907	LOCK NUT, Ø 3/8-16, S.S.	3

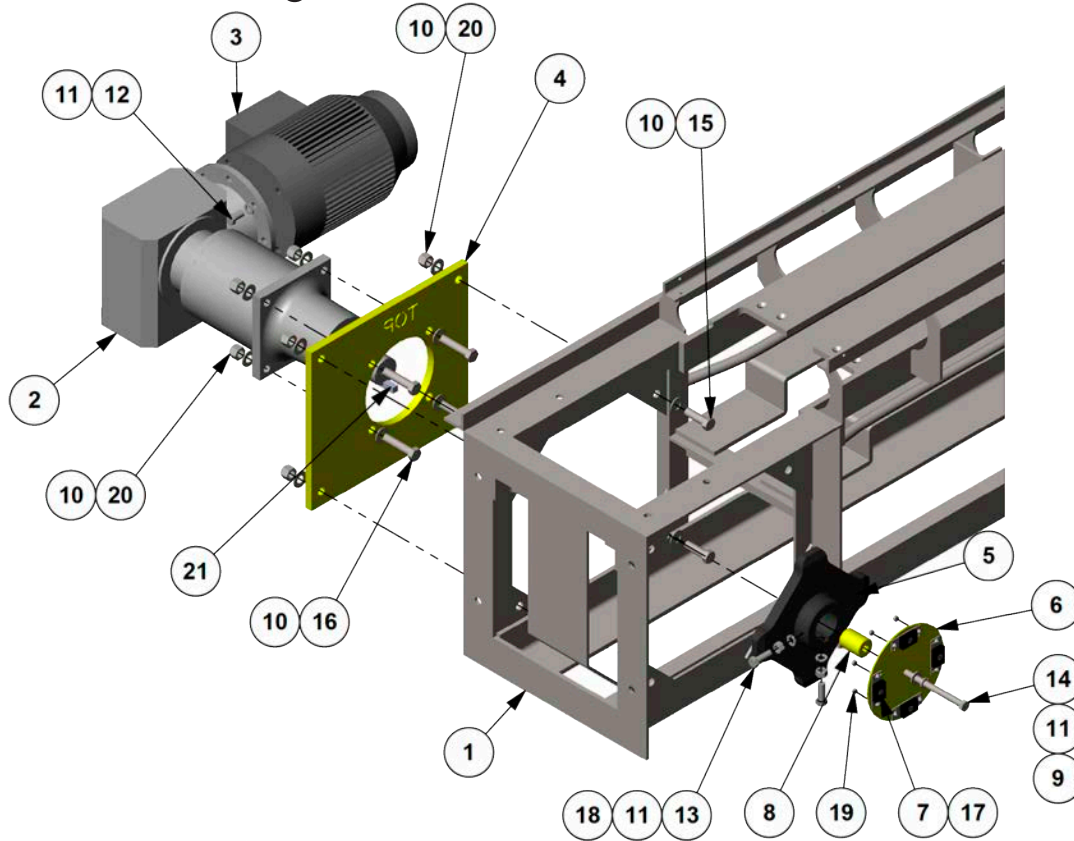
Drive Section Assembly Detail



Item No.	PART #	DESCRIPTION	QTY
1	900-0153-1	OVER/UNDER DRIVE FRAME	1
2	900-0141	EXIT PLATE, DRIVE SECTION	1
3	900-0142	ROLLER RETURN FLAP DRIVE SECTION	1
4	900-0143	EXIT END SOFT DROP FLAP, DRIVE SECTION	2
5	900-0140-1	WHEEL GUIDE, DRIVE SECTION	2
6	870-1705	FLAT WASHER, Ø 3/8, S.S.	4
7	870-1704	FLAT WASHER, Ø 1/2, S.S.	8
8	820-3086	CAP SCREW, Ø 3/8-16 X 1¼, S.S.	2
9	820-3069	CAP SCREW, Ø 1/2-13 X 1-1/4, S.S.	4
10	820-1241	SLOTTED HEX TAP SCREW, #14 X 1¼, S.S.	22
11	820-1233	FLAT HEAD SOCKET CAP SCREW, Ø 3/8 X 1, SS	4
12	840-1907	LOCK NUT, Ø 3/8-16, S.S.	2
13	840-2003	LOCK NUT, Ø 1/2-13, S.S.	4
14	840-1854	TEE NUT INSERT, Ø 3/8-16, ZINC PLATED	4

Electric Drive Assembly

Pulse Switch Magnet Plate

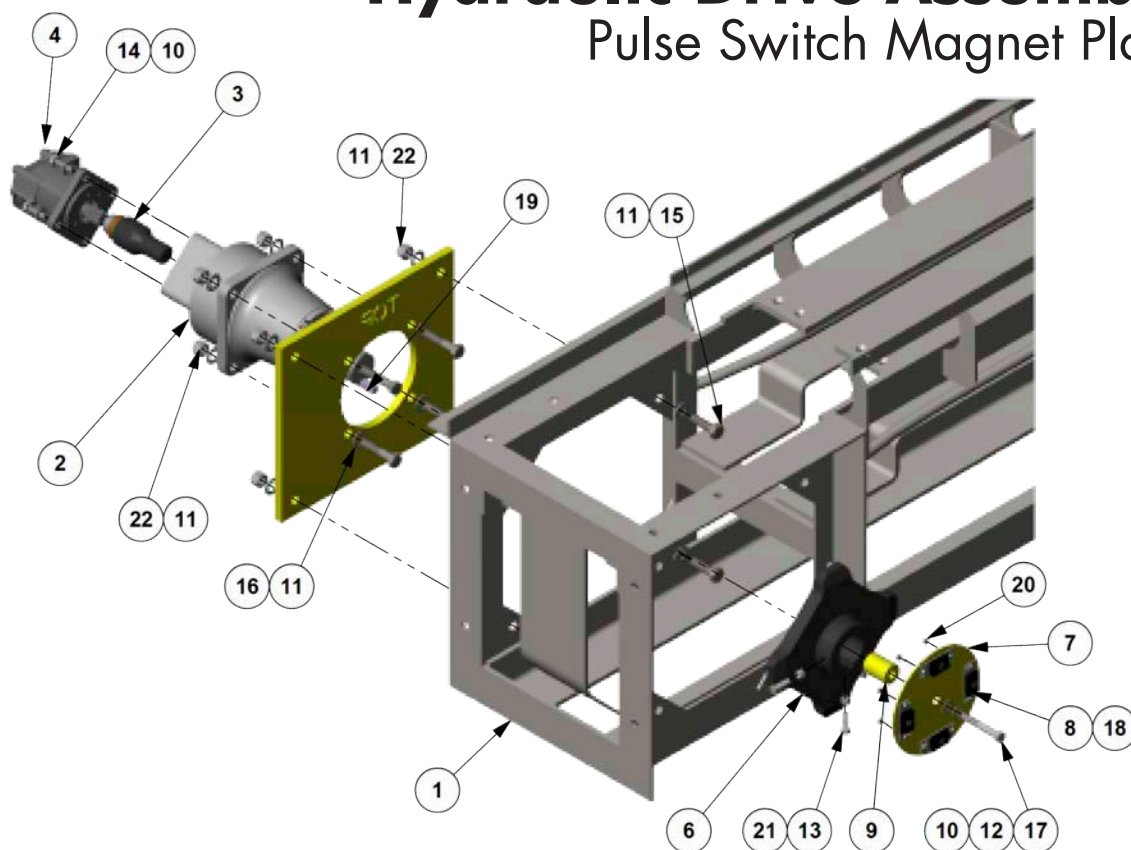


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Item No.	PART #	DESCRIPTION	QTY
1	900-0153-1	OVER UNDER CONVEYOR DRIVE FRAME	1
2	230-1322	REDUCER GEAR HECO ELECTRIC DRIVE 16TWCF1-LE135	1
3	210-5209	MOTOR 5HP 3PH 1750RPM 184TC C FACE	1
4	140-5100	GEAR BOX MOUNTING PLATE CONVEYOR	1
5	770-1121	SPROCKET X458 C4 T4 WITH KEYWAY	1
6	200-1612	MAGNET MOUNTING DISC	1
7	200-6010	MAGNET TELEMETRIQUE #7093	4
8	200-1613	MAGNET DISC SPACER	1
9	870-1400	FLAT WASHER, 1/2, SAE, 18-8 STAINLESS STEEL	1
10	870-1500	FLAT WASHER, 5/8, SAE, 18-8 STAINLESS STEEL	16
11	870-1450	LOCK WASHER, 1/2, 18-8 STAINLESS STEEL	7
12	820-3068	HEX CAP SCREW, 1/2-13 X 1 LG., 18-8 STAINLESS STEEL	4
13	820-1520	HEX CAP SCREW, 1/2-13 X 1-1/2 LG., 18-8 STAINLESS STEEL	2
14	820-1539	HEX CAP SCREW, 1/2-20 X 3 LG., 18-8 STAINLESS STEEL	1
15	820-1749	HEX CAP SCREW, 5/8-11 X 2 LG., 18-8 STAINLESS STEEL	4
16	820-3049	HEX CAP SCREW, 5/8-11 X 2-3/4 LG., 18-8 STAINLESS STEEL	4
17	860-1069	PAN HEAD MACHINE SCREW, #10-24 X 3/4, S.S.	8
18	840-1300	REGULAR HEX NUT, 1/2-13, 18-8 STAINLESS STEEL	2
19	840-1901	LOCK NUT, #10-24, 18-8 STAINLESS STEEL	8
20	840-2100	LOCK NUT, 5/8-11, 18-8 STAINLESS STEEL	8
21	135-1400-3.25	SQUARE KEYSTOCK 1/2 X 3-1/4 LG CR STEEL	1

Hydraulic Drive Assembly

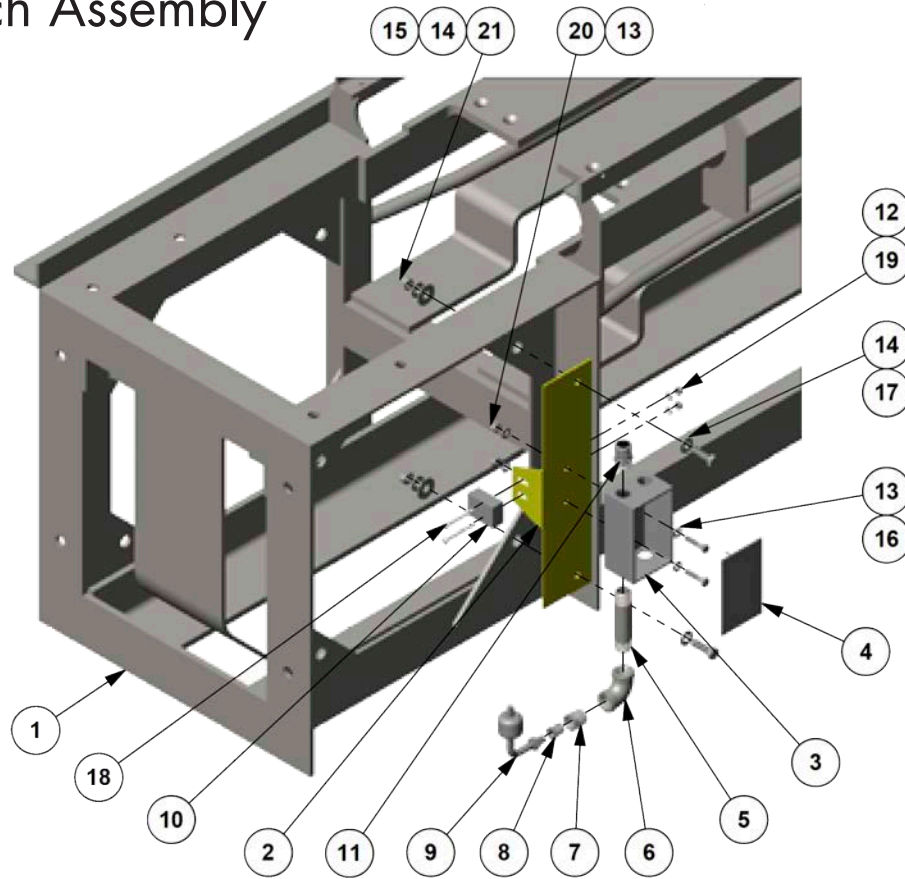
Pulse Switch Magnet Plate



Item No.	PART #	DESCRIPTION	QTY
1	900-0153-1	OVER/UNDER DRIVE FRAME	1
2	230-1321	REDUCER GEAR HECO #16CF105-7	1
3	230-1303	SUN GEAR KIT, HECO 16E REDUCER GEAR SET	1
4	210-0009	HYDRAULIC MOTOR	1
5	140-5100	GEAR BOX MOUNTING PLATE CONVEYOR	1
6	770-1121	SPROCKET X458 C4 4.0310 T4 WITH KEYWAY	1
7	200-1612	MAGNET MOUNTING DISC	1
8	200-6010	MAGNET TELEMÉCONIQUE #7093	4
9	200-1613	MAGNET DISC SPACER 1-1/2 X 1-7/8	1
10	870-1704	FLAT WASHER, Ø 1/2, S.S.	5
11	820-1880	FLAT WASHER, Ø 5/8, S.S.	16
12	820-1884	LOCK WASHER, Ø 1/2, S.S.	1
13	820-3086	CAP SCREW, Ø 3/8-16 X 1-1/4, S.S.	2
14	820-3070	CAP SCREW, Ø 1/2-13 X 1-1/2, S.S.	4
15	820-1454	CAP SCREW, Ø 5/8-11 X 2, S.S.	4
16	820-1455	CAP SCREW, Ø 5/8-11 X 2-3/4, S.S.	4
17	820-1545	CAP SCREW, Ø 1/2-13 X 3-1/4, GRADE 5 ZINC PLATE	1
18	860-1069	PAN HEAD MACHINE SCREW, #10-24 X 3/4, S.S.	8
19	135-1500	SQUARE KEYSTOCK 1/2 X 3-1/4 LG CR STEEL	1
20	840-1903	LOCK NUT, #10-24, S.S.	8
21	840-1907	LOCK NUT, Ø 3/8-16, S.S.	2
22	840-1404	LOCK NUT, Ø 5/8-11, S.S.	8

Water Level Safety Float Assembly

Pulse Switch Assembly

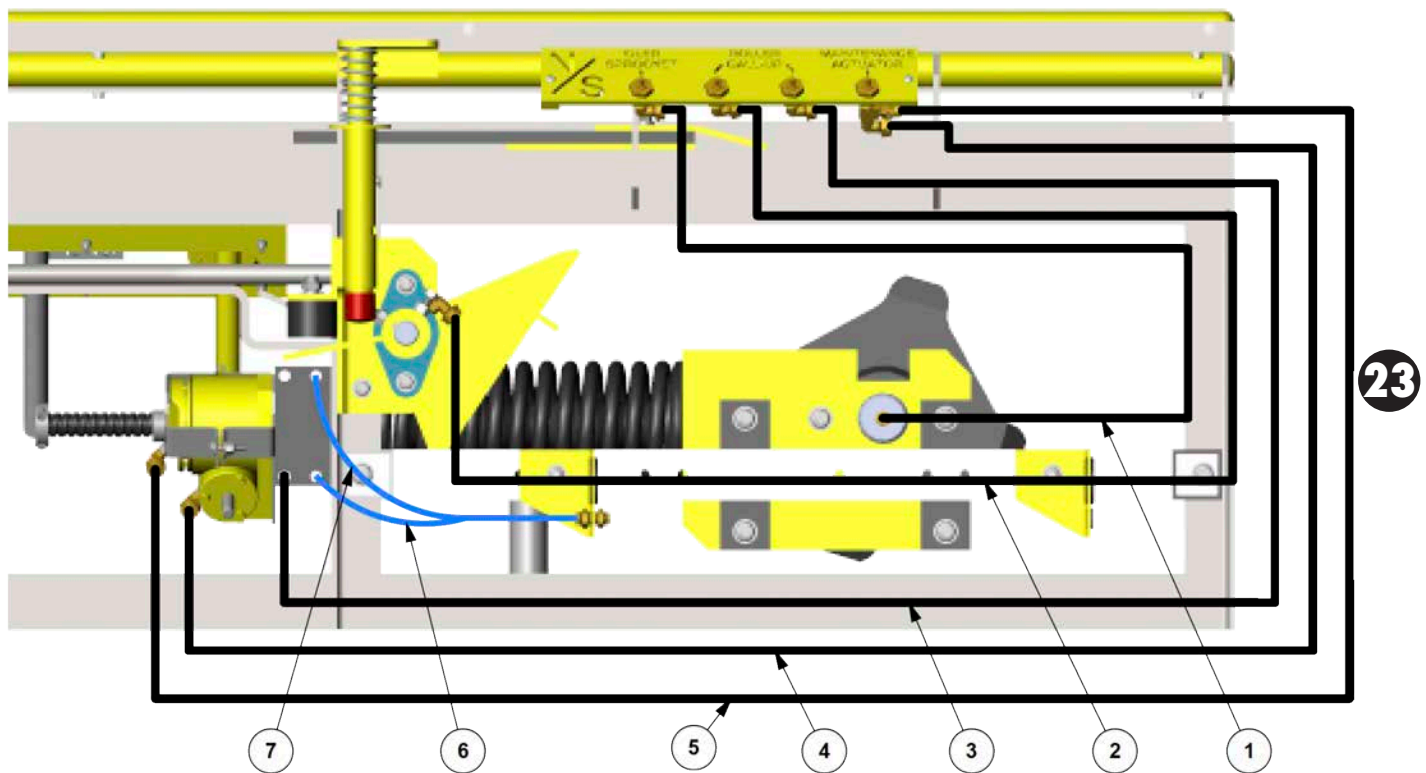


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Item No.	PART #	DESCRIPTION	QTY
1	900-0153-1	OVER/UNDER DRIVE FRAME	1
2	900-0144	MOUNTING BRACKET CONVEYOR PULSE SWITCH	1
3	350-1054	BELL BOX 5 HOLE 1G WP BOX W/5 1/2 HUBS	1
4	350-1056	BLANK COVER FOR BELL BOX	1
5	500-1611	NIPPLE, Ø 1/2 X 3-1/2 LG, S.S.	1
6	430-1441	ELBOW, Ø 1/2 X 90°, S.S.	1
7	405-1192	REDUCING BUSHING, 1/2 x 1/4, S.S.	1
8	405-1196	REDUCING BUSHING, 1/4 X 1/8, GALV.	1
9	400-0040	SWITCH FLOAT SAFETY	1
10	200-6011	SWITCH, MAGNETIC PULSE SWITCH ASSEMBLY	1
11	350-1051	CONNECTOR CORD 1/2 SHC 1024 ALUM.	1
12	870-1402	FLAT WASHER, #10-24, S.S.	2
13	820-1992	FLAT WASHER, Ø 1/4, S.S.	4
14	870-1705	FLAT WASHER, Ø 3/8, S.S.	4
15	870-1301	FENDER WASHER, Ø 1/4 X 1-1/4, S.S.	2
16	820-1204	CAP SCREW, Ø 1/4- 20 X 1-1/4, S.S.	2
17	820-3086	CAP SCREW, Ø 3/8-16 X 1-1/4, S.S.	2
18	860-1070	PAN HEAD MACHINE SCREW, #10-24 X 2, S.S.	2
19	840-1903	LOCK NUT, #10-24, S.S.	2
20	840-1848	LOCK NUT, Ø 1/4-20, S.S.	2
21	840-1907	LOCK NUT, Ø 3/8-16, S.S.	2

Single Point Greasing Maintenance Schedule

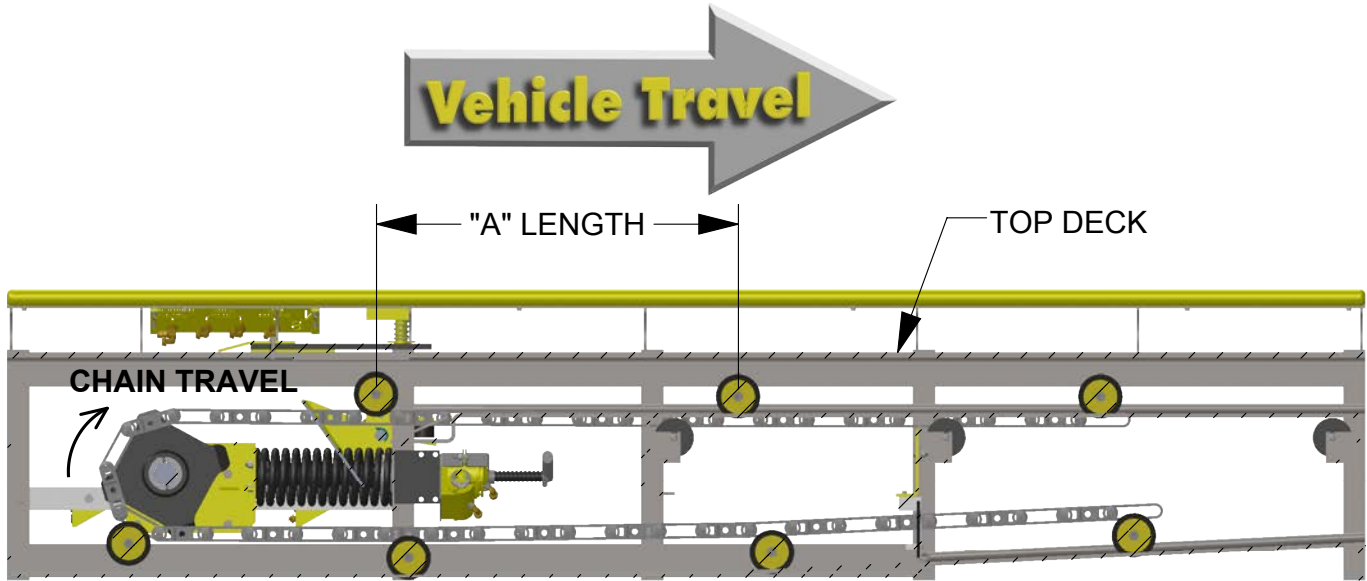
Maintenance Schedule	
Conveyor Part	Lubrication Interval
<i>Idler Sprocket</i>	<i>Twice per Week</i>
<i>Roller Call-Up Bearing</i>	<i>Every Two Weeks</i>
<i>Maintenance Actuator</i>	<i>Every Two Months</i>



Item No.	PART #	DESCRIPTION	Length
1	475-3200B	Ø 3/8 High Pressure Poly Tubing For Idler Sprocket	45"
2	475-3200B	Ø 3/8 High Pressure Poly Tubing For Driver Side Bearing	48"
3	475-3200B	Ø 3/8 High Pressure Poly Tubing For Passenger Side Bearing	94"
4	475-3200B	Ø 3/8 High Pressure Poly Tubing For Lower Inlet Of Screw Jack	75"
5	475-3200B	Ø 3/8 High Pressure Poly Tubingfor Upper Inlet Of Screw Jack	76"
6	475-3207	Ø 1/4 Poly Tubing For Lower Inlet Of Air Cylinder	50"
7	475-3207	Ø 1/4 Poly Tubing For Upper Inlet Of Air Cylinder	48"

Chain Assembly

Entrance Section



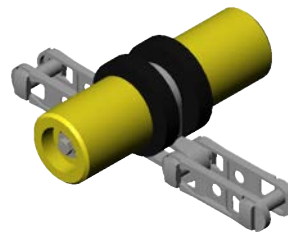
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ENTRANCE SECTION

Roller Spacing X458 Chain		
Roller Spacing 'A'	Links Between Roller Dollys	Roller Type
3/4"	9	NSSA-X458
7/4"	21	NSSA-X458



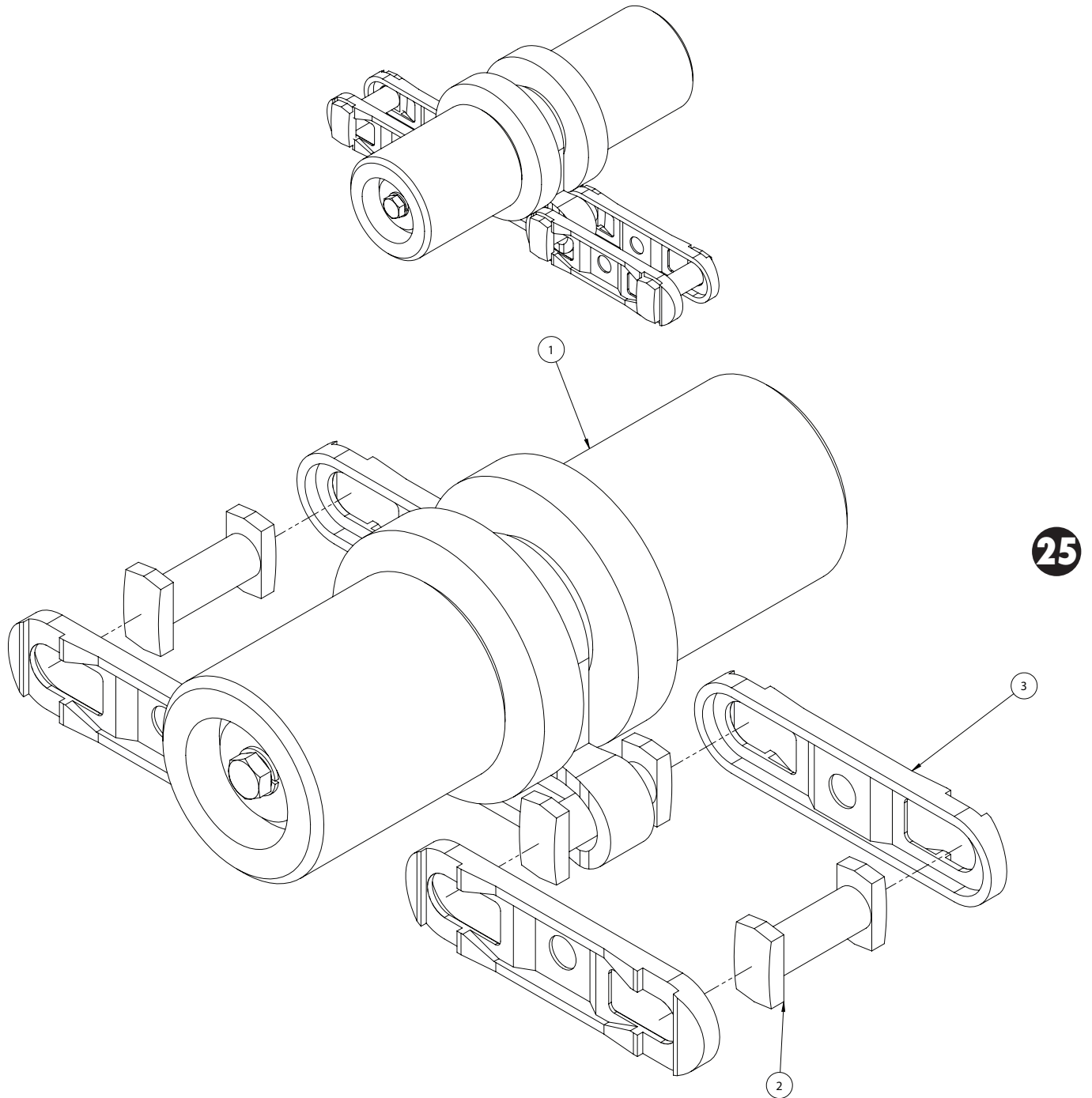
NSSA-X458
WITHOUT SIDE BAR
(P/N 670-1613)



NSSA-X458 WITH SIDE BAR
(P/N 670-1614)
"RECOMMEND FOR EASY INSTALLATION"

Dolly Assembly

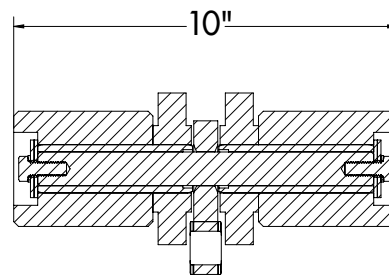
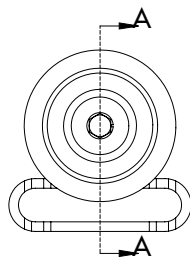
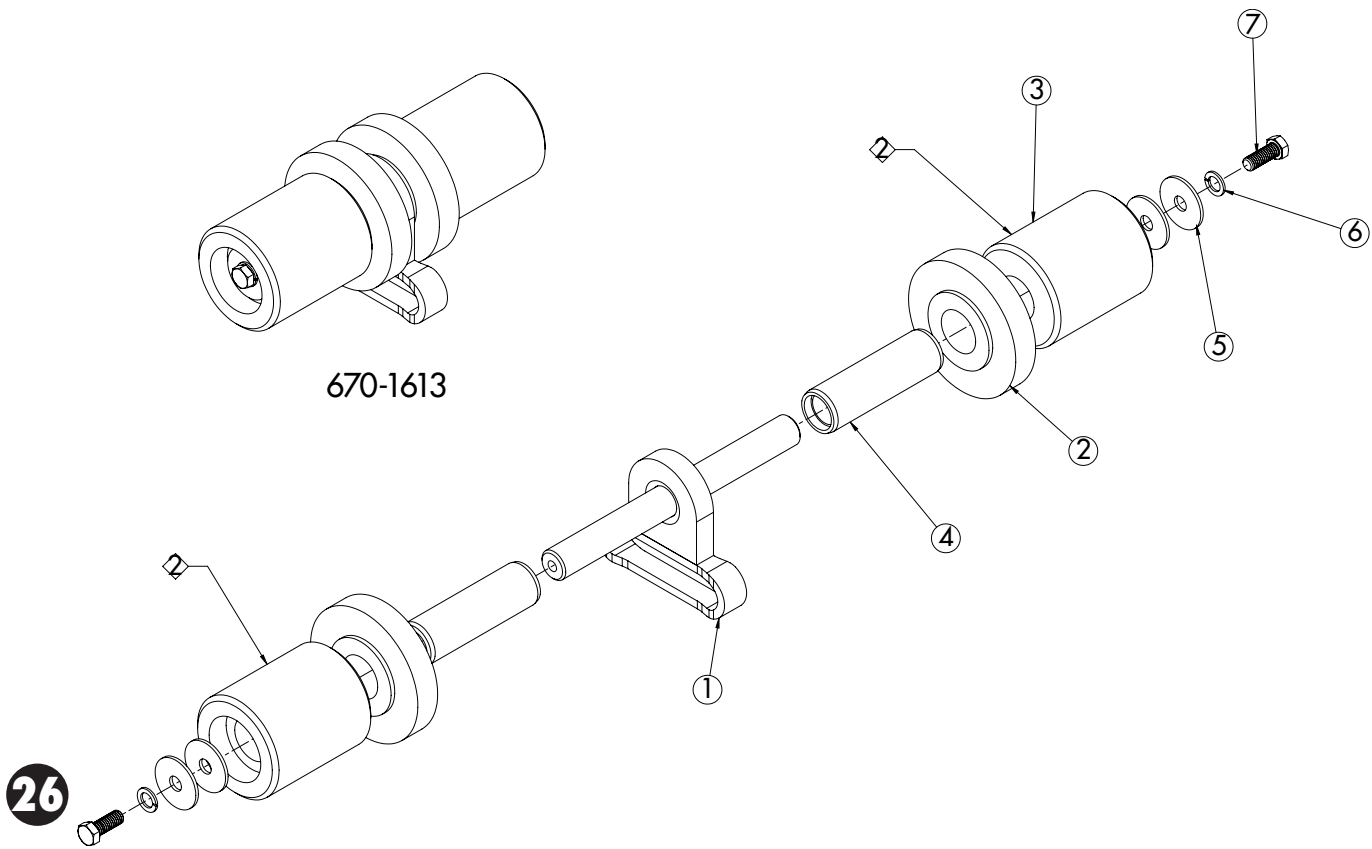
X458 Chain, Sidebars and Pins



Item No.	PART #	DESCRIPTION	Length
1	670-1613	DOLLY ASSEMBLY X458 CHAIN COMPLETE WITH ROLLERS	1
2	670-1611	PIN X458 CHAIN	4
3	670-1610	SIDEBAR (PAIR) X458 CHAIN	4

Dolly Assembly

X458 Chain, Complete with Rollers



SECTION A-A

Item No.	PART #	DESCRIPTION	Length
1	670-1612	X458 DOLLY FRAME	1
2	670-1617	ROLLER, INNER X458 DOLLY	2
3	670-1616	ROLLER, OUTER X458 DOLLY	2
4	670-1615	UHMW BUSHING X458 DOLLY	2
5	870-1311	FENDER WASHER, Ø 3/8, S.S.	4
6	820-1881	LOCK WASHER, Ø 3/8, S.S.	2
7	820-1411	HEX CAP SCREW, Ø 3/8-16 X 1 LG, S.S.	2

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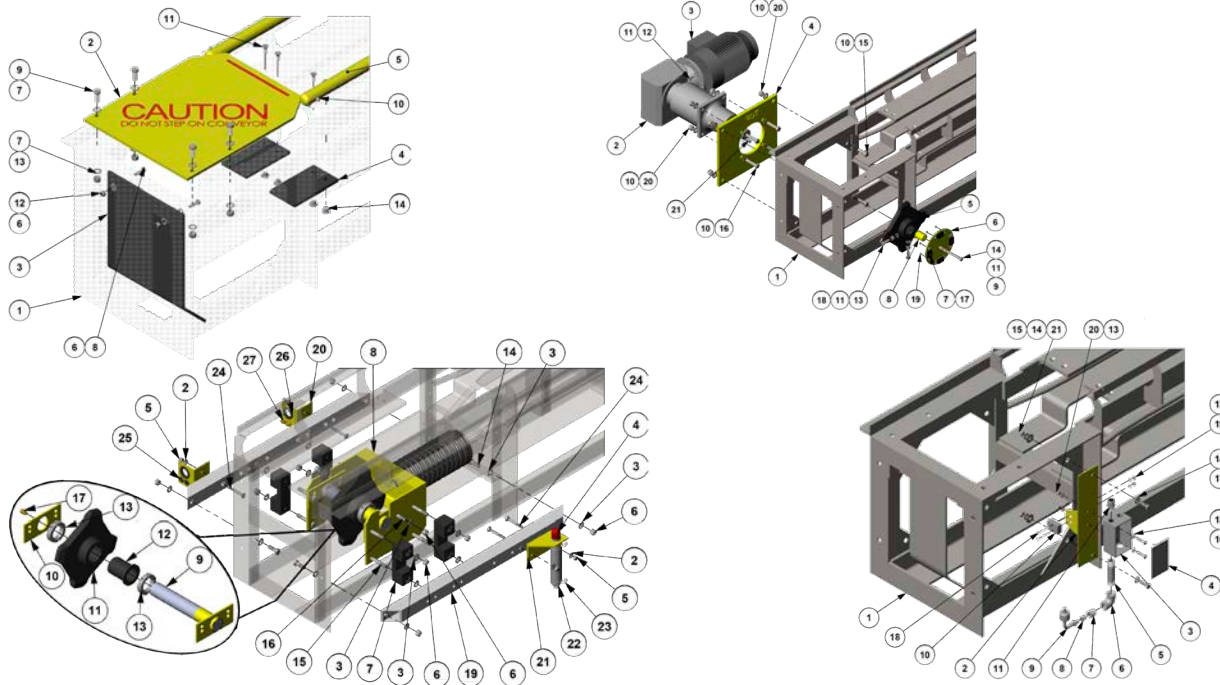
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475-3200B.....	23	820-3069.....	15	870-1705.....	13
475-3200B.....	23	820-3069.....	19	870-1705.....	14
475-3207.....	23	820-3070.....	21	870-1705.....	15
475-3207.....	23	820-3086.....	13	870-1705.....	16
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550-1495.....	13	820-3086.....	18	870-1705.....	18
610-1123.....	14	820-3086.....	19	870-1705.....	19
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Spare Parts Recommended List



Part #	Description	Qty.	Part Category	Unit Cost*	Total Cost
1	900-0171	1	Cover Take-Up	\$ 55.15	\$ 55.15
2	900-0275	1	Take-Up (Fork)	\$ 24.77	\$ 24.77
3	430-1336	2	Roller Take-Up	\$ 3.99	\$ 7.98
4	610-1123	2	Take-Up (Fork)	\$ 40.90	\$ 81.80
5	840-1907	4	Take-Up (Fork)	\$ 0.33	\$ 1.32
6	870-1705	8	Take-Up (Fork)	\$ 0.07	\$ 0.56
7	900-0272	1	Take-Up (Fork)	\$ 68.81	\$ 68.81
8	900-0274	1	Take-Up (Fork)	\$ 24.77	\$ 24.77
9	840-1101	4	Take-Up (Fork)	\$ 0.18	\$ 0.72
10	820-1411	4	Take-Up (Fork)	\$ 0.64	\$ 2.56
11	135-1502	2	Take-Up (Levers)	\$ 2.76	\$ 5.52
12	820-3087	4	Take-Up (Fork)	\$ 0.50	\$ 2.00
13	440-1195	1	Roller Take-Up	\$ 112.59	\$ 112.59
14	640-1607	1	Roller Take-Up	\$ 18.37	\$ 18.37
15	200-6011	1	Roller Counter	\$ 149.50	\$ 149.50
16	670-1614	2	Dolly	\$ 71.26	\$ 142.52

*Effective prices as of April 27, 2016



N/S Corporation

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Service: Ext. **2**

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