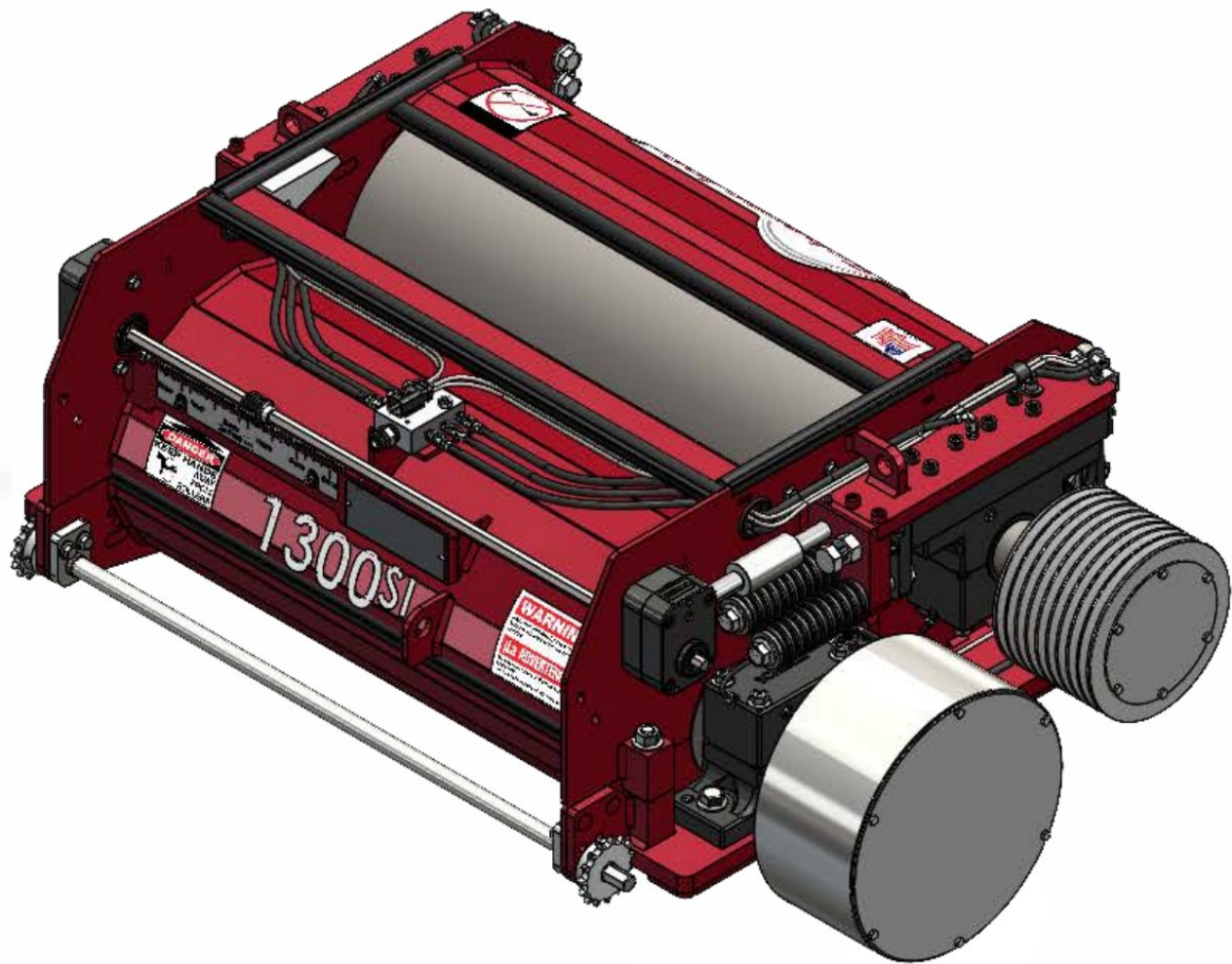


1300^{SI} SERVICE MANUAL

MODEL YEAR 2026 REV. A

FOR MORE INFORMATION CALL 1.800.883.9790 or WWW.SCHERERINC.COM



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U.S. Patent No. 7,681,384
Others Patents Applied for
Foreign Patents Applied for

4940 W Foundation Court

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Service New Product Warranty

LIMITED WARRANTY ON NEW SCHERER KERNEL PROCESSORS AND PROCESSOR ROLLS

Scherer, Inc. ("Scherer") will provide for repairs or replacement, at its option during the warranty period of each new Scherer Kernel Processors and/or new Scherer Kernel Processor Rolls in accordance with the following terms, conditions, and limitations.

WHAT IS COVERED

WARRANTY APPLIES – This warranty is for new Scherer Kernel Processors and/or new Scherer Kernel Processor Rolls installed in a Claas® Forage Harvester by a certified technician, and is provided to the original and any subsequent owner(s) of the Claas® Forage Harvester during the warranty provision.

REPAIRS COVERED – The warranty covers repairs or replacement, at Scherer's option, to correct any malfunction resulting from defects in the design, material or workmanship occurring during the warranty period. Needed repairs or replacements will be performed using the method Scherer determines most appropriate under the circumstances.

OBTAINING REPAIRS – To obtain warranty repairs, contact Scherer at portal.schererinc.com.

WARRANTY PERIOD – The warranty period for all coverages shall begin on the date installed by the dealer and shall continue for twelve months.

WHAT IS NOT COVERED

DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION – Defects and damage caused as a result of any of the following are not covered:

Flood, Collision, Fire, Theft, Vandalism, Riot, Explosion, Acts of Terrorism;

- Misuse of the Forage Harvester;
- Installation into unapproved applications and installations;
- Alterations or modification of the Kernel Processor, Processor Rolls, or Forage Harvester;
- Anything other than defects in the Scherer Kernel Processor or Processor Roll design, materials, or workmanship.

DAMAGE CAUSED by LACK of MAINTENANCE – Defects and damage caused by the owner's failure to follow the recommendations of the maintenance schedule provided by Scherer.

MAINTENANCE – Normal Maintenance (such as adjustments after initial installation and use as set out in the owner's manual; periodic maintenance as set out in the owner's manual based upon hours of use, and **END OF SEASON** maintenance as set out in the owner's manual) is not covered and is the owner's responsibility.

USE OF OTHER THAN GENUINE SCHERER PARTS – Defects and damage caused by the use of parts that are not genuine Scherer parts are not covered.

EXTRA EXPENSES – Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of Forage Harvester use, inconvenience, lost profits, loss of time, any travel costs.

OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED BY THE MAGNUSON -MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Scherer Inc. does not authorize any person to create for it any other obligation or liability in connection with these Kernel Processors and Processor Rolls. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. SCHERER INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST PROFITS OR RENTAL EXPENSES) RESULTING FROM THE BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.**

** Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

OTHER TERMS APPLICABLE TO OTHER END-USERS

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE SCHERER KERNEL PROCESSORS AND PROCESSOR ROLLS AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SCHERER INC. DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH KERNEL PROCESSORS OR PROCESSOR ROLLS. SCHERER INC. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.

Scherer Protection Extension

Effective 11/30/21 Extend the standard 1-year Limited Warranty up to +4 years (5 years total). Scherer Protection Extension must be purchased at same time the KP order is placed. All Scherer Protection Extension Warranties need to be filed on the Dealer Portal. Annual inspection to be completed by the Dealer & filed under the warranty section of Dealer Portal. Failure to file annual inspection may result in rejected warranty claims. Scherer Protection Extension is not retroactive to any kernel processors that have already been in service. Scherer Protection Extension is transferrable to 2nd owner. Unlimited acres/hours/tons, No deductible. Scherer does not warranty normal wear items, including but not limited to, Cheek plates, bulb seals, rolls, felt seals, KP belt, pulleys, or taper hub assemblies. Scherer does not warranty normal maintenance items on KP or air system components, including but not limited to, Filters, gaskets.

QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact Scherer, Inc. thru the dealer portal: portal.schererinc.com.

Safety

Warning: Read and understand all of the following safety messages. Be familiar with general operating and maintenance instructions. Be sure to lock out the power supply before performing any maintenance and adjustments. The person performing the maintenance should be the only one with the ignition key for the machine.

General Safety Practices,

Always observe safe operating practices around machinery. Most accidents are the result of carelessness or negligence. All rotating machinery is potentially dangerous. Guard and operate rotating machinery as required by applicable laws, regulations and good standard safety practices.

Before doing any maintenance on engine driven machinery, turn off ignition. Remember, the person doing the maintenance or adjustment should be the only one with the ignition key.

Use the proper tools for each maintenance task. Keep lifting equipment in good condition and **DO NOT** stand under objects being lifted. Keep a clean work area to ensure workers have good footing.

Inlet/Discharge Opening Hazard

The processor has an inlet and discharge opening. Injury will result if persons or objects fall into the inlet or discharge. A serious hazard exists if a person places their arm or any object into the inlet or discharge area of the processor. **DO NOT** remove protective guards.

Belt Drive Hazard

Be sure that the belt guards are in place before operating the processor.

Rotating Rolls Hazard

The rotating rolls are a severe hazard. The rolls turn at high speeds and operate with a grinding action that will pull objects between the rolls. Keep all body parts and all objects out of this area. **DO NOT** insert any part of your body or any tool into the roller area.

Eye Protection

Wear approved safety glasses when working around all equipment. Moving machinery can throw objects unexpectedly.

Head Protection

Wear an approved hard hat while installing the processor into and out of the machine. Falling objects or low overhead can cause severe injury while installing or removing the processor from the machine.

Hearing Protection

Under normal operating conditions, this machine does not produce hazardous noise. However, the machine itself is very noisy when operated at full throttle. Wear approved hearing protection as needed when working around equipment.

Schermist® Installation

The Schermist part list is on pg. 60 and can be used as reference when completing installation. Referenced figures are on the next page.

1. First position the coalescing filter as circled in Figure 1 to not obstruct the factory diagram and to not interfere with the greaser. Once located, mark the hole positions.
2. Remove the panel and drill marked holes, bolt the filter bracket onto panel
3. Attach the upper oiler mount (PRT11007) to the oiler leaving the bolts slightly loose.
4. Attach the bottom mounting bracket (ASM10735) to the machine using the socket head screw in the middle hole (left slot).

NOTE: The left oiler mounting bolt (BLT10193) must be in the bracket before being mounted.

5. Mount the oiler to the lower bracket with provided bolts, reuse factory washers.

NOTE: The right bolt must go through the oiler, bracket, and the existing hole on the machine.

6. Attach the upper bracket (PRT11007) to the machine in the position boxed in Figure 3, use the factory holes for mounting. Tighten upper bracket to secure oiler.
7. The airlines are routed as shown in Figure 1 (arrows) to connect the filter and oiler. The air line on the right side of the oiler can be routed to the KP.
8. The coalescing filter can be connected to the machine air system at the T-fitting behind the cab on the left side (Figure 2). If the T-fitting is already in use the provided fitting can be used to tap into the lines.
9. Start the machine, open the air valve and adjust the regulator to set the pressure to 35psi. Check for any air leaks in the system.

Schermist® Installation

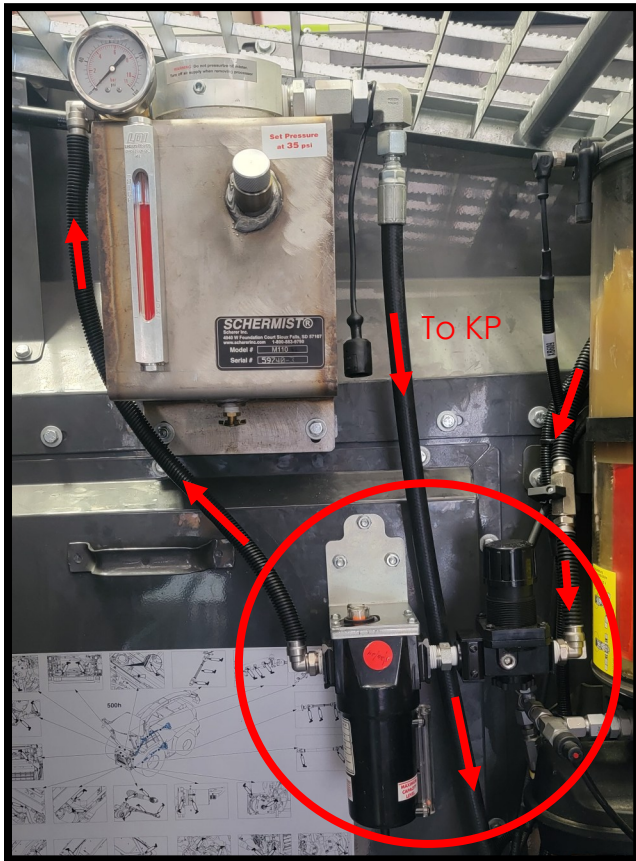


Figure 1

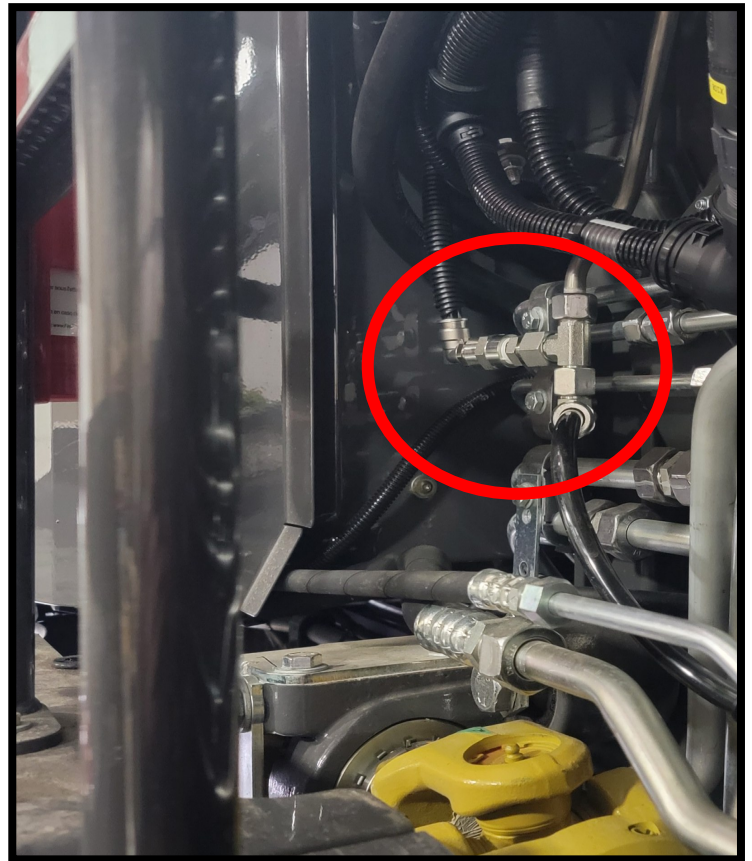
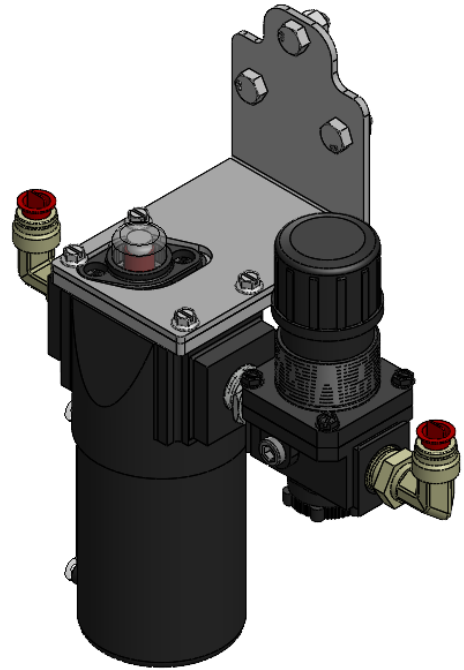
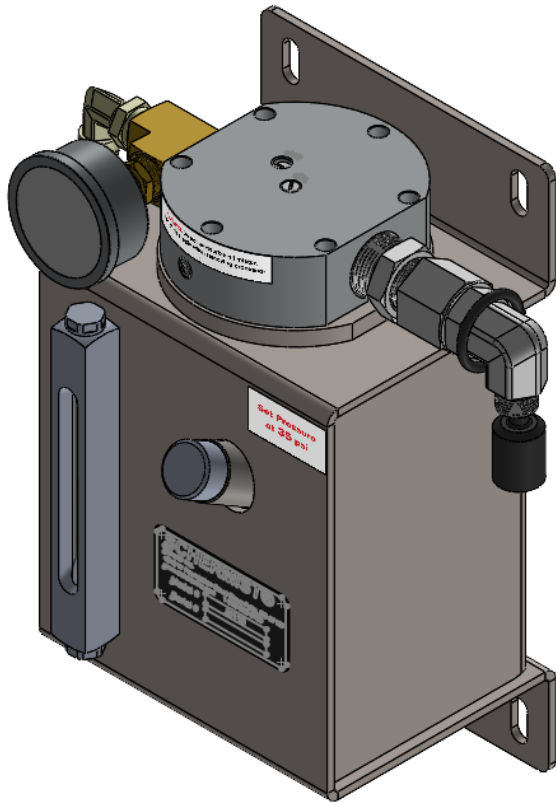


Figure 2



Figure 3

Schermist® Operation



- Make sure to maintain an air pressure of 35psi at the Schermist® pressure gauge.
- Oil fill is the plug located on the front of the Schermist® reservoir. Do not fill past the point of oil coming out the fill plug. **SCHERMIST® WILL NOT FUNCTION PROPERLY IF IT IS FILLED ABOVE THE FULL MARK!!**
- The air and oil screws on top of the Schermist® head are preset at the factory. To maintain ideal operating conditions **DO NOT ADJUST THESE SCREWS.**
- Only use Scherer KP oil. It is available from dealer in 1 gallon, and 5 gallon quantities.
- In very wet corn conditions, we recommend changing the oil in the bearings every two weeks and at the end of the season. To change the oil, remove the most convenient plug and drain. Refill the bearing housing with .50 oz. of fresh oil.
- **At the end of season, remove all water from regulator and air lines to prevent damage from freezing.**
- When removing the kernel processor, disconnect the hose from the Schermist® exhaust port and plug the end of the hose to keep dirt out. Also cap off the Schermist® exhaust port and turn off the air supply to the Schermist®.
- **THE SCHERMIST® SYSTEM SHOULD NOT BE PRESSURIZED IF THE EXHAUST PORT IS CAPPED OFF.**

Kernel Processor Installation

Before lifting the processor into place in the cutter, ensure that the latch blocks, and hinge bolts are tight. Always use the certified lifting chains provided with the processor to lift the processor in and out of the cutter. **Never stand under the processor when it is lifted overhead.**

You can install the processor from the side or from the top. Place processor in the cutter. Slide the processor in the operating position, using the same clamping system that is in place for the original processor.

With the processor ahead and secured into the operating position, you now need to check proper pulley alignment. Do this by laying a straight edge along the main drive pulley and along the processor pulleys. If any adjustment needs to be done, please refer to keyless locking hub torque specifications on the next page.

The roll gap was set at 2 mm and the scale has been marked at the 2 mm setting. Unless the gap has been changed, the roll adjustment should not have to be changed until some product has been run through it.

Ensure that KP is properly connected to Schermist® system. Also confirm that air line valve is open.

B-LOC® Keyless Bushings provide a high capacity, zero-backlash shaft/hub or coupling connection by means of a mechanical interference fit. Please follow these **INSTALLATION AND REMOVAL INSTRUCTIONS** carefully to ensure proper performance of this **B-LOC®** unit.

WARNING

When installing or removing B-LOC® products, always adhere to the following safety standards:

1. Be sure that the system is de-energized using proper lockout/tagout procedures
2. Wear proper personal protective equipment.

INSTALLATION

(Refer to Figure 1)

B-LOC® Series B103 and B106 Keyless Bushings are supplied lightly oiled and ready for installation. They are self-centering and fit straight-thru hub bores. Note that Series B103 units permit axial hub movement during installation. In contrast, the extended flange on Series B106 units results in an axially fixed hub position during assembly. When reinstalling a used unit, make sure that all slits are aligned. The frictional torque capacity of these devices is based on a coefficient of friction of 0.12 for lightly oiled screw, taper, shaft and bore contact areas.

Therefore, it is important *not* to use Molybdenum Disulfide (e.g., Molykote, Never-Seeze or similar lubricants) in any Keyless Bushing installation.

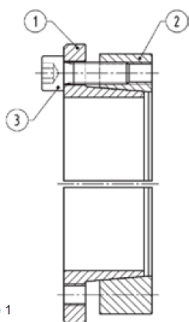


Figure 1

1. Make sure that locking screw, taper, shaft and bore contact areas are clean and lightly oiled with a light machine oil and that all collar slits are aligned.
2. Loosen all locking screws by a minimum of four (4) turns and transfer at least three (3) screws into push-off threads in order to keep Parts 1 and 2 separated during assembly (see Figure 2).
3. After inserting Keyless Bushing into hub bore, relocate locking screws used for separating Parts 1 and 2.
4. Hand tighten locking screws and confirm that collar Item 1 is parallel and in full contact with face of part to be attached to shaft.
5. Use torque wrench and set it approximately 5% higher than specified tightening torque (M_a). Tighten locking screws in either a clockwise or counterclockwise sequence (it is not necessary to tighten in a diametrically opposite pattern), using only 1/4 (i.e., 90°) turns for several passes until 1/4 turns can no longer be achieved.
6. Continue to apply over torque for 1 to 2 more passes. This is required to compensate for a system-related relaxation of locking screws since tightening of a given screw will always relax adjacent screws. Without over torquing, an infinite number of passes would be needed to reach specified tightening torque.
7. Reset torque wrench to specified torque (M_a) and check all locking screws. No screw should turn at this point, otherwise repeat Steps 6 and 7.

NOTE: 1. It is not necessary to re-check tightening torque after equipment has been in operation.

2. The torque capacity of these units can be increased by approximately 25% by thoroughly cleaning the shaft and Keyless Bushing bore of any lubricant. In applications subject to extreme corrosion, the slits in all collars should be sealed with a suitable caulking compound or equivalent. Likewise, push-off threads should be protected from corrosion.

INSTALLATION OF B-LOC® KEYLESS BUSHING OVER SHAFT KEYWAYS

The Keyless Bushing should be positioned so that slits in Keyless Bushing collars that contact the shaft are located approximately opposite the keyway. In addition, a locking screw should be centered directly over the keyway.

When tightening locking screws, it is important to follow the installation procedure outlined above, which specifies equal 1/4 turns of each locking screw. Failure to follow these instructions could result in excessive tightening of the screw over the keyway, possibly causing permanent deformation of the Keyless Bushing collars.

REMOVAL

(Refer to Figure 2)

Prior to initiating the following removal procedure, check to ensure that no torque or thrust loads are acting on the Keyless Bushing, shaft or any mounted components.

IMPORTANT! Make sure ends of locking screws used for removal are

1. Check to ensure that axial movement of collars - necessary for release of connection - is not restricted. Likewise, ensure that push-off threads are in good condition.
2. Relax all locking screws by approx. four (4) complete turns and transfer screws to all push-off threads located in flange of collar Item 1.
3. Release connection by evenly tightening all push-off screws (not exceeding 1/4 turns) in a diametrically opposite sequence.

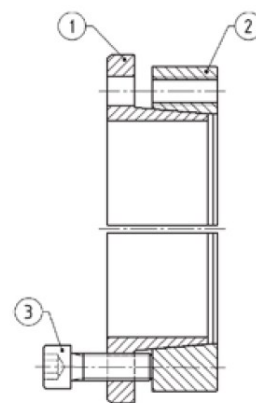


Figure 2

ground flat and are slightly chamfered to prevent damage to screw and collar threads during push-off.

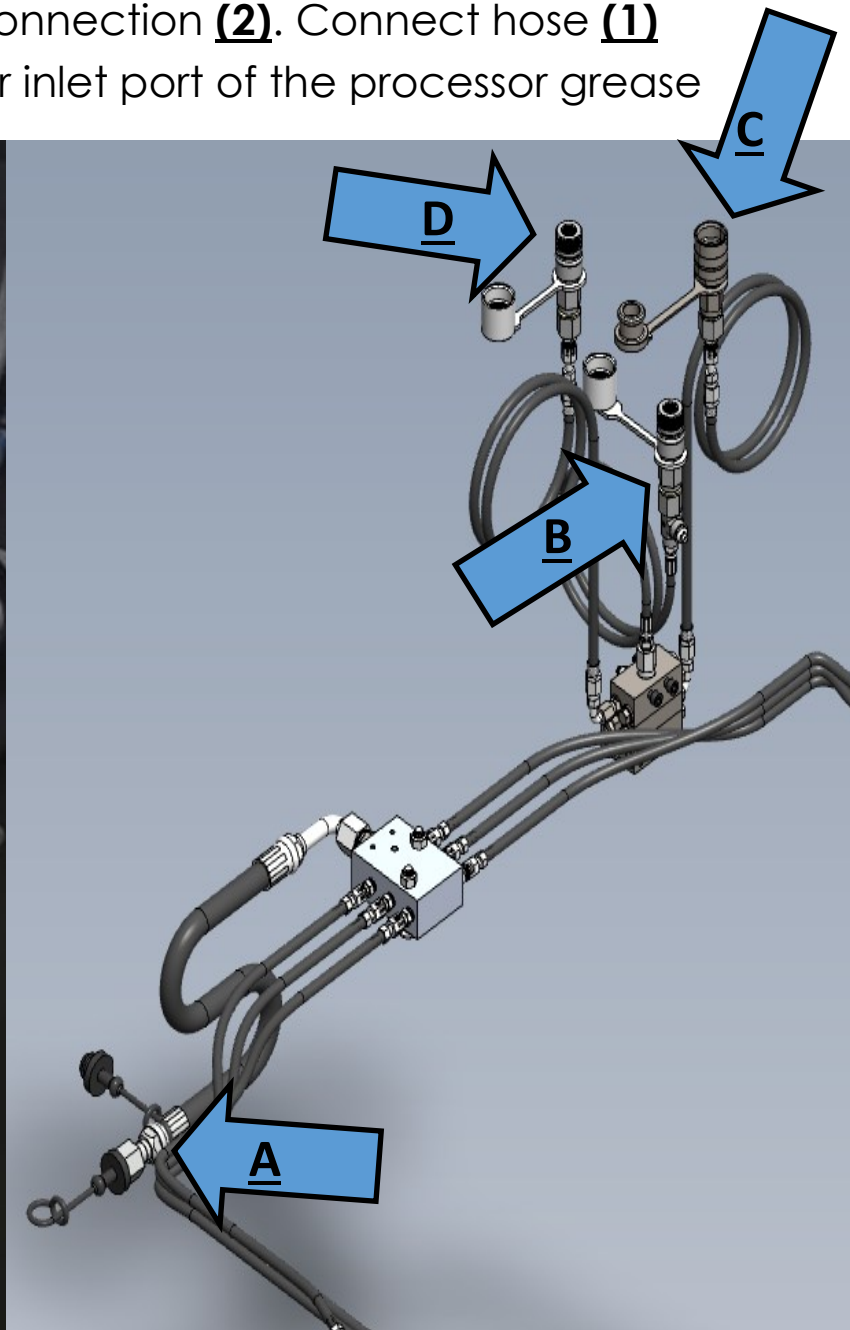
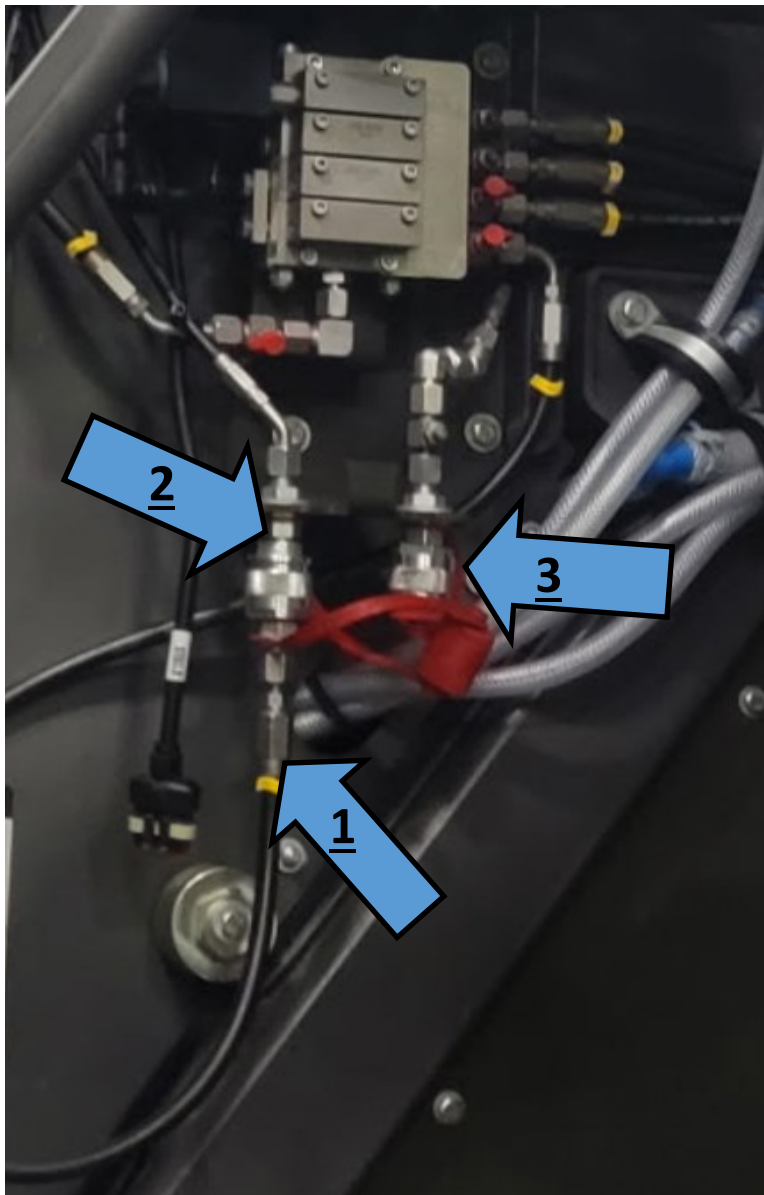
LOCKING SCREW SIZES AND SPECIFIED TIGHTENING TORQUE M_a

Metric Series	Inch Series	Tightening Torque M_a (ft-lbs)		Screw Size	Hex Key Size (mm)
		B106	B103		
20 x 47 to 40 x 65	3/4 to 1-1/2	12	10	M 6	5
45 x 75 to 65 x 95	1-5/8 to 2-9/16	30	25	M 8	6
70 x 110 to 95 x 135	2-11/16 to 3-3/4	60	50	M 10	8
100 x 145 to 120 x 165	3-15/16 to 4-3/4	105	90	M 12	10
130 x 180 to 200 x 260	4-15/16 to 8	166	135	M 14	12
220 x 285 to 260 x 325		257	219	M 16	14
280 x 355 to 300 x 375		350	290	M 18	14
320 x 405 to 340 x 425		500	420	M 20	17
360 x 455 to 400 x 495		675	560	M 22	17

Scherer Oil KP Connections

Remove the dust cap from the oil line coming from the Schermist reservoir. Attach the oil line from the reservoir to the KP connection **(A)**. Turn the air valve on to allow the processor to receive the oil mist.

Grease lines will need to be connected while the processor is in use to ensure the machine idler pulley is receiving grease. Disconnect hose **(1)** from connection **(2)**. Connect hose **(1)** to connection **(B)** on center inlet port of the processor grease



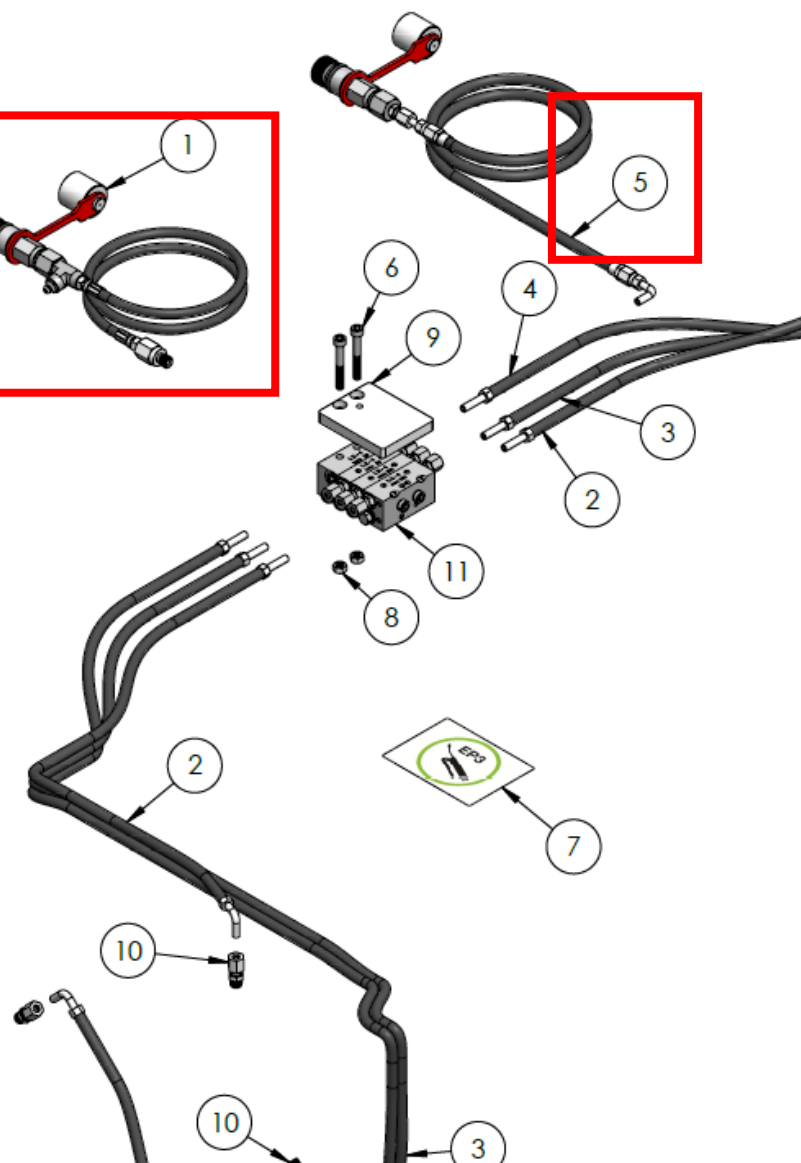
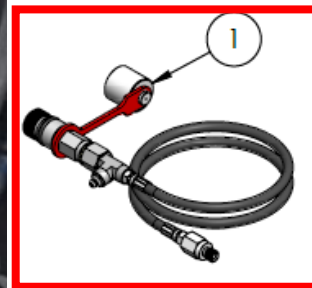
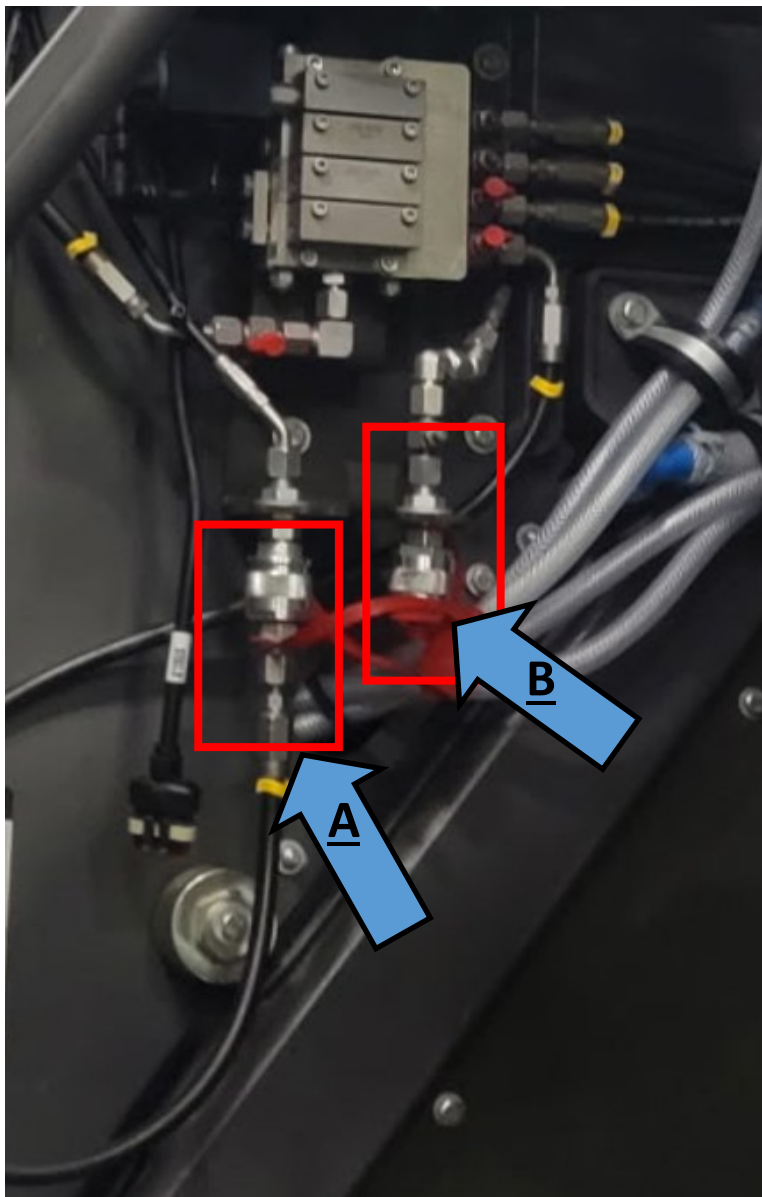
Scherer Grease KP Connections

Remove grease line **(A)** Image 1 from valve block on machine side wall. Connect line **(A)** to the connection on processor valve block **(1)** Image 2.

Connect line **(5)** Image 2 to the machine side wall connection **(B)** Image 1.

Image 1

Image 2



Sentry 4.0 Installation

Connect the harness to the multi-box following the labels on both. If machine does not have Actisiler take the multi-box and place it on the inside of the right hand exterior panel of the KP compartment (Image 1).

If the machine has Actisiler install the multi-box on to the rear panel of the cab (Image 2).

Image 1



Image 2



Sentry 4.0 Installation

Next remove a blank plug from the rear right corner of the firewall and trim a hole to fit the harness labeled display through. Route the wire into the cab & secure the blank plug (Image 1).

Route the power cable along the lower fuse panel and up into the front right cab pillar (Image 2).

Image 1

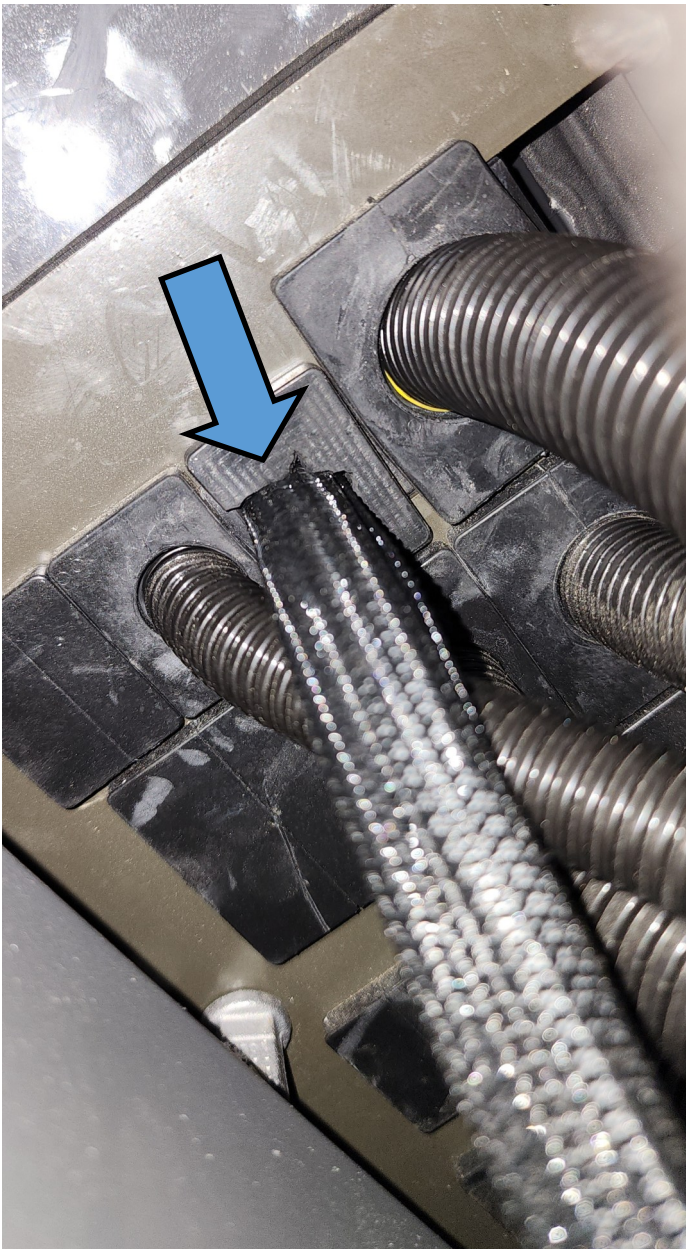


Image 2



Sentry 4.0 Installation

Route the power wire into the upper fuse panel and connect to the power and ground lugs (Image 1).

Mount Sentry 4.0 to the pillar and connect the harness (Image 2).

Image 1

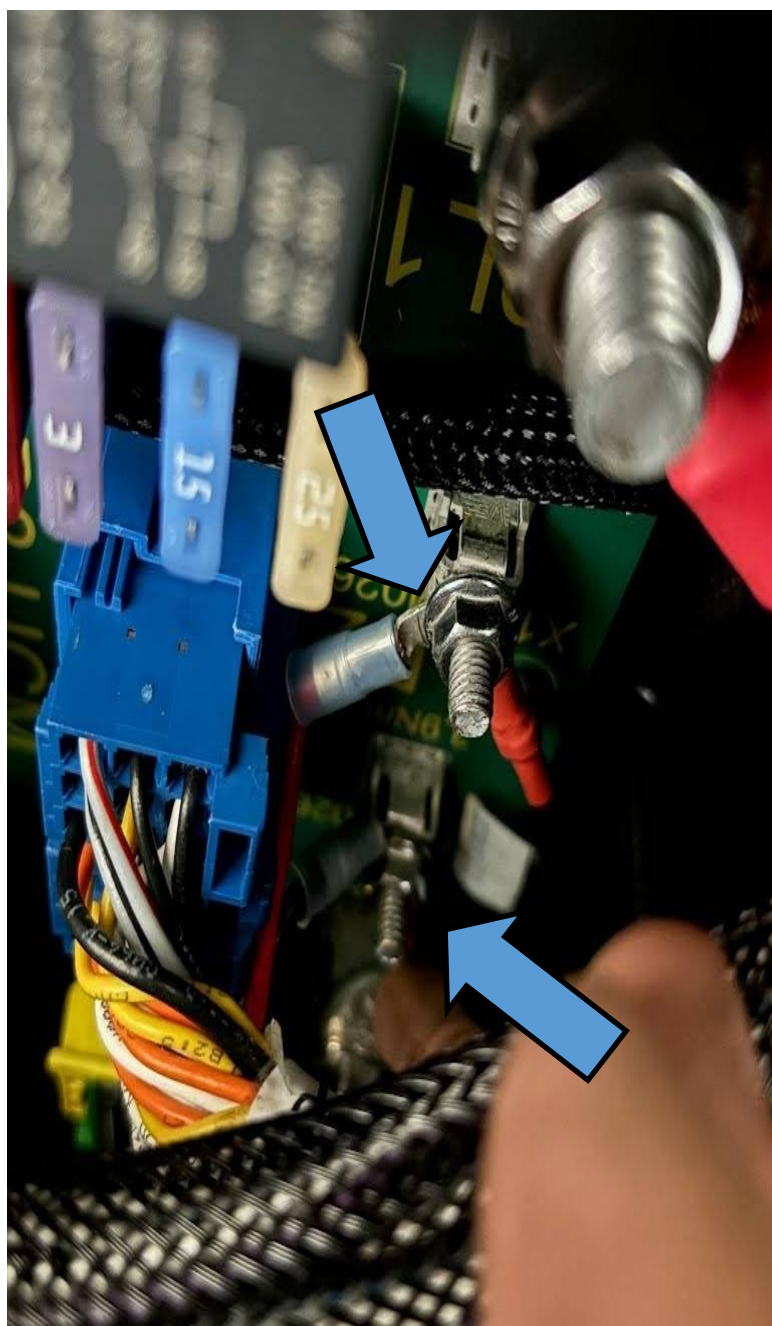


Image 2



Sentry 4.0 Harness Layout

The Sentry 4.0 comes standard for monitoring the kernel processor bearing temperatures but also has the following capabilities.

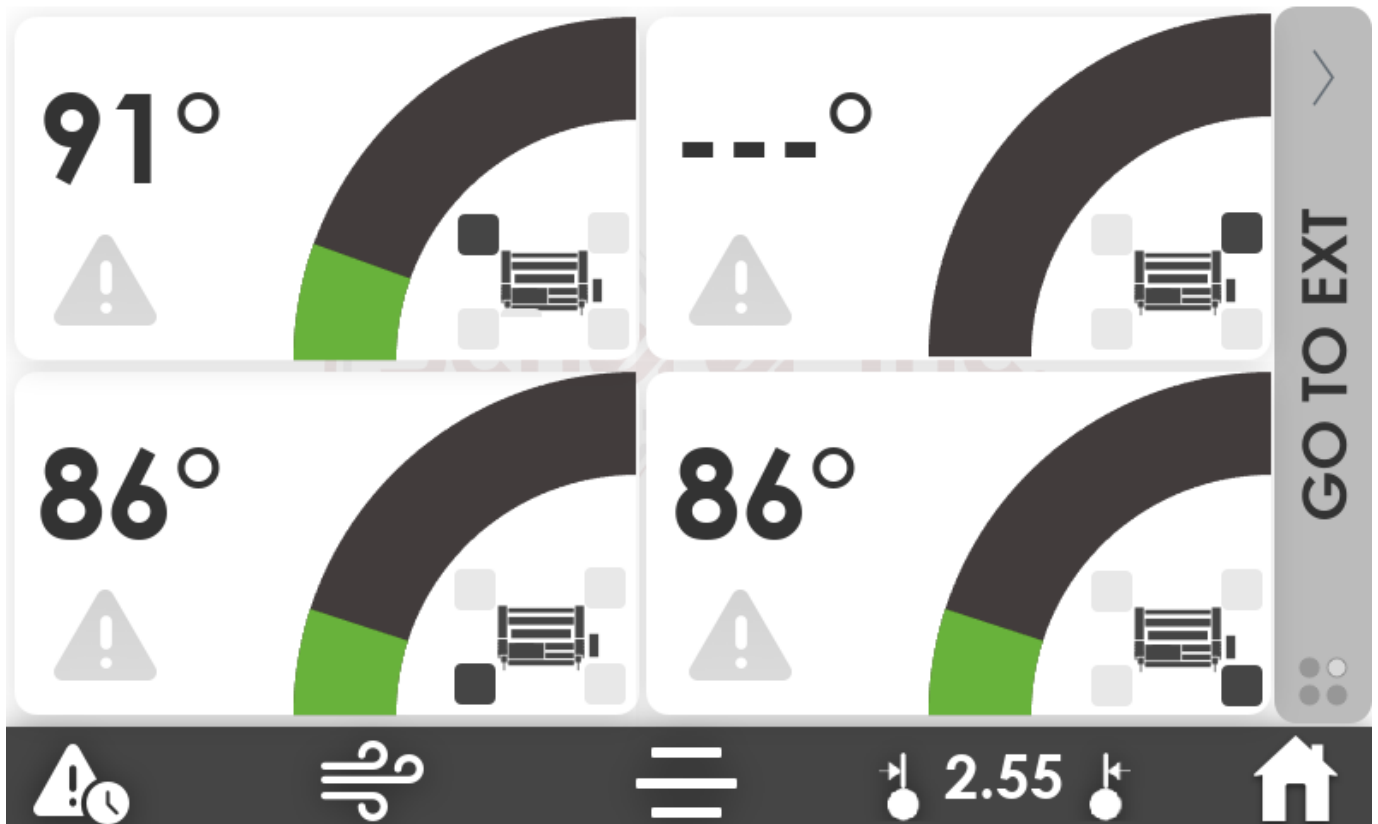
- Remote adjustment from the cab
- Temperature monitoring of the cutter & accelerator bearings
- Adjustable air dryer settings

The Sentry 4.0 harness comes ready to have any of the additional features hooked up. To add on any of the features, an operator must buy the needed cable and go into the system settings to activate the desired feature. The Sentry 4.0 harness has labeled break outs for all the features offered. The corresponding cables for these features are the following.

- Dryer - SPL10260
- Right Accelerator - SPL10230
- Left Accelerator - SPL10231
- Right/Left Cutter - SPL10232
- Remote Adjust - SPL10259



Sentry 4.0 Operation



The main page for the Sentry 4.0 can be seen above. The quadrants represent the bearing temperatures on the kernel processor.

Top Left - Front left bearing

Top Right - Front right bearing

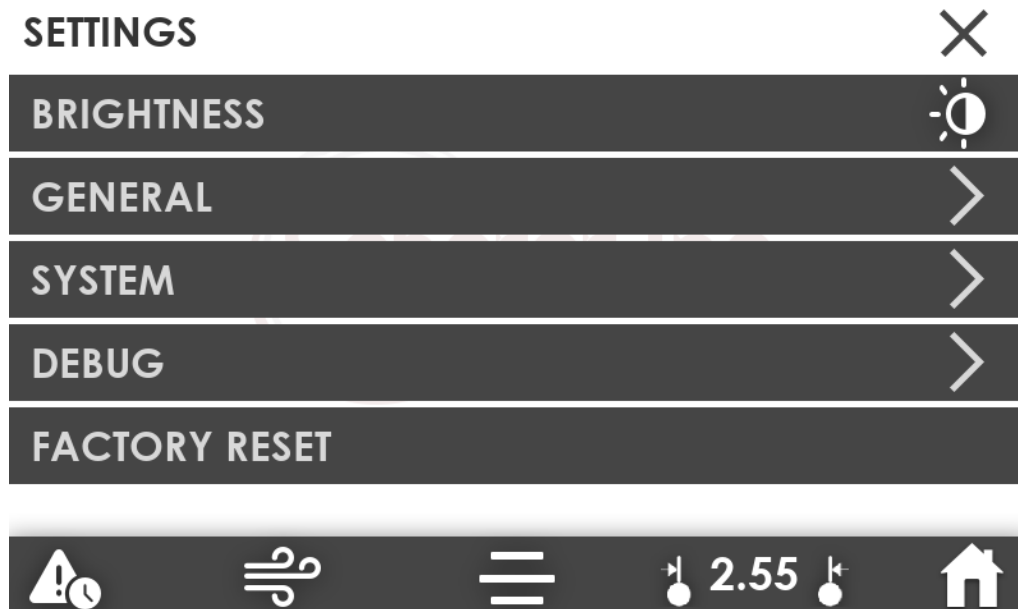
Bottom Left - Rear left bearing

Bottom Right - Rear right bearing

The icons on the bottom of the main page from left to right represent the following: bearing alarms, air dryer, general, remote adjust, and home page. The side bar that reads GO TO EXT, will take the operator to the page that shows the extended sentry bearing temperatures.

If a sensor is **DISCONNECTED OR DAMAGED** the quadrant will be grey and not show a temperature reading like the top right quadrant above.

Sentry 4.0 Settings Page

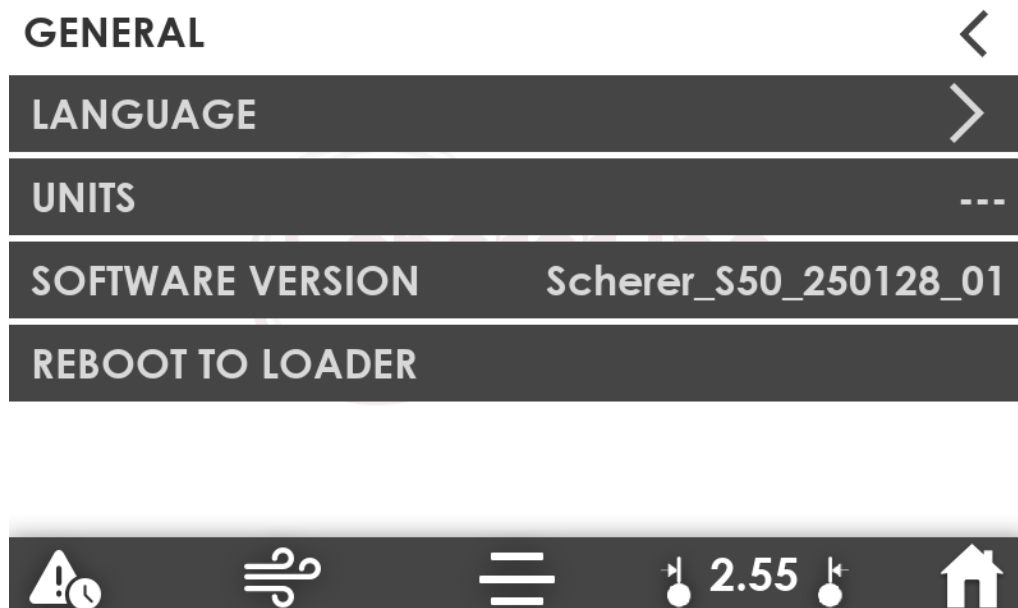


Brightness - Adjust brightness.

General - Sub page with other selections.

System - Sub page with other selections.

Debug - Can be used to trouble shoot.



Language - Multiple languages to select from.

Units - Can choose between metric or imperial.

Software Version - This is not a selection but shows the systems software version

Reboot To Loader - This feature is utilized when updating the system with new software

System Settings

SYSTEM



TEMP PROFILE

OIL

DATA LOG



EXPORT ALARM TIMES

EXTENDED SENTRY ALARMS



SENTRY 4.0 OPTIONS



Temp Profile - Can change the system between oil & grease bearings.

Data Log - This will record the temperatures of the bearings.

Export Alarm Times - A user can export the alarms times to a USB drive.

Extended Sentry Alarms - A user has the ability to set there own alarm setpoints.

Sentry 4.0 Options - This option allows a user to decide what additional features they want active.

Sentry 4.0 Options

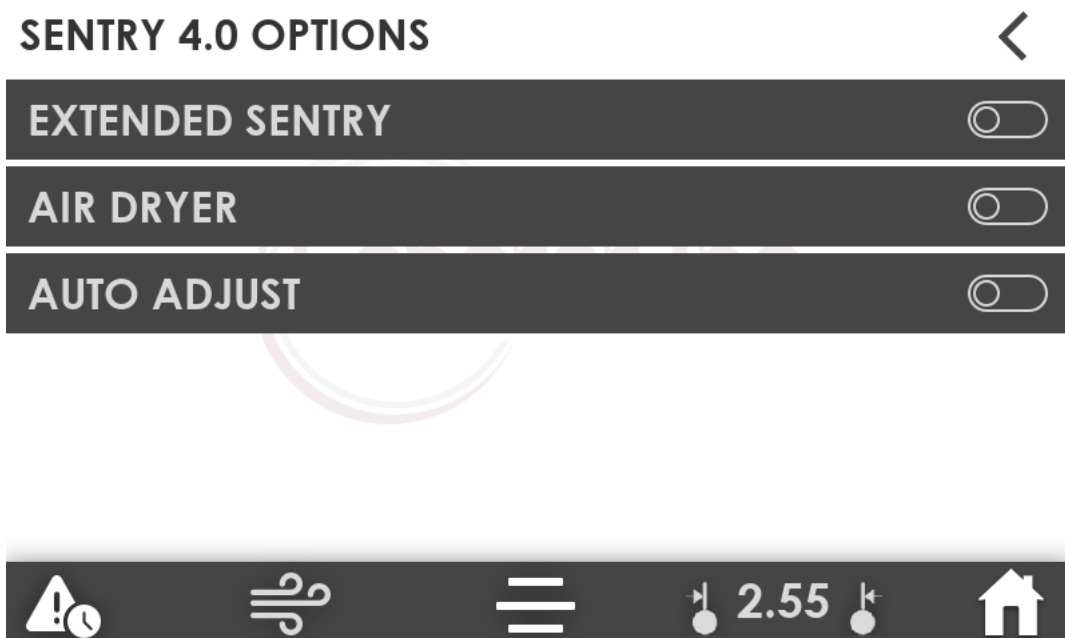
From the system settings menu an operator can select sentry 4.0 options and activate the features they have hooked up.

Extended Sentry - Monitors bearing temperatures for cutter & accelerator bearings.

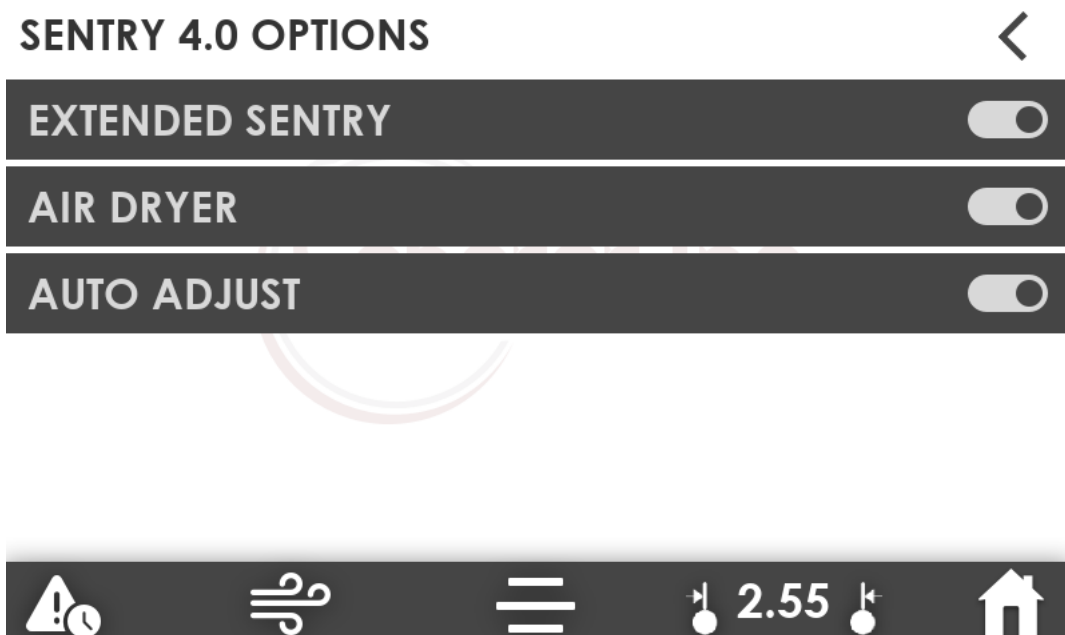
Air Dryer - Removes moisture from the machines air system.

Remote Adjust - Give the user the ability to adjust the rolls from the cab.

Options not active

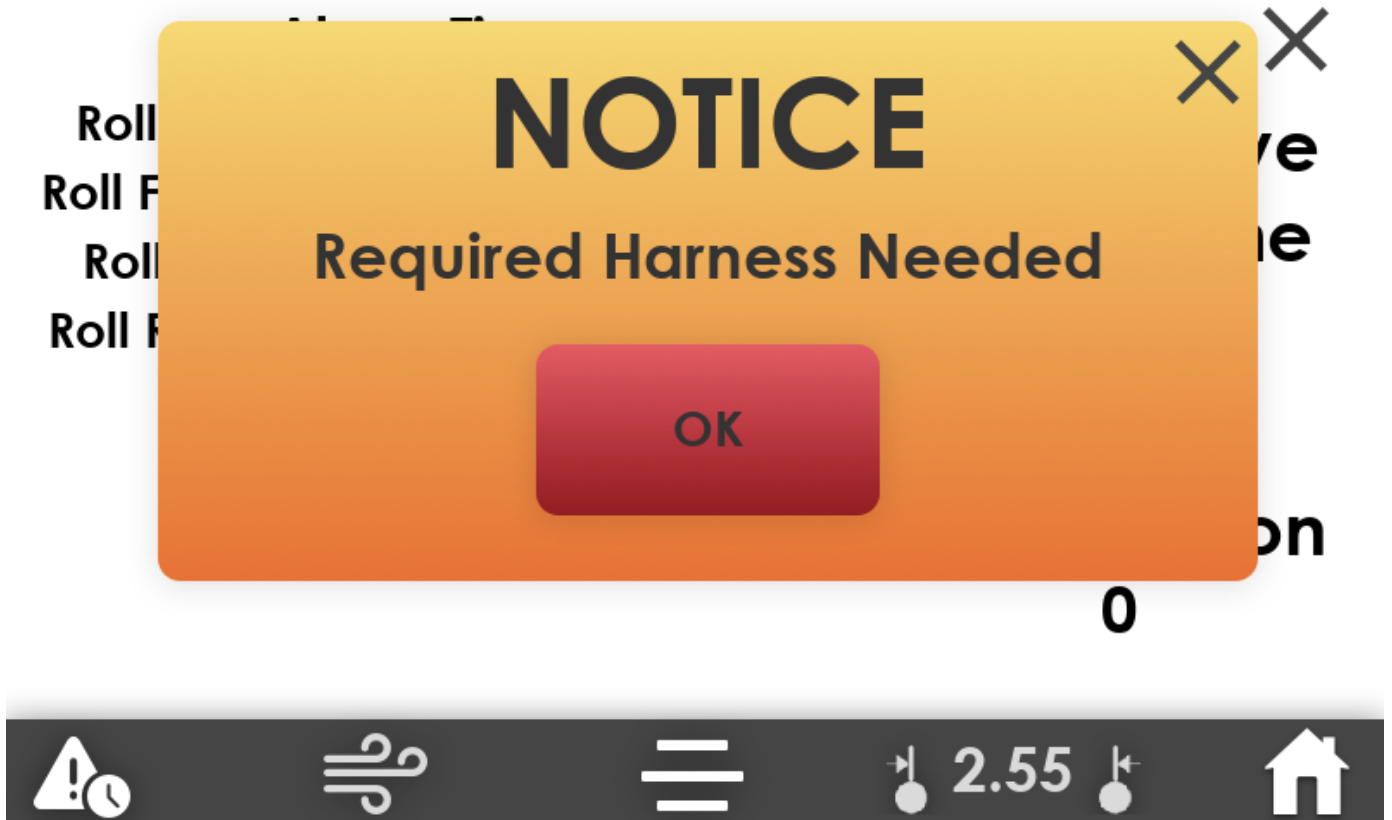


Options active

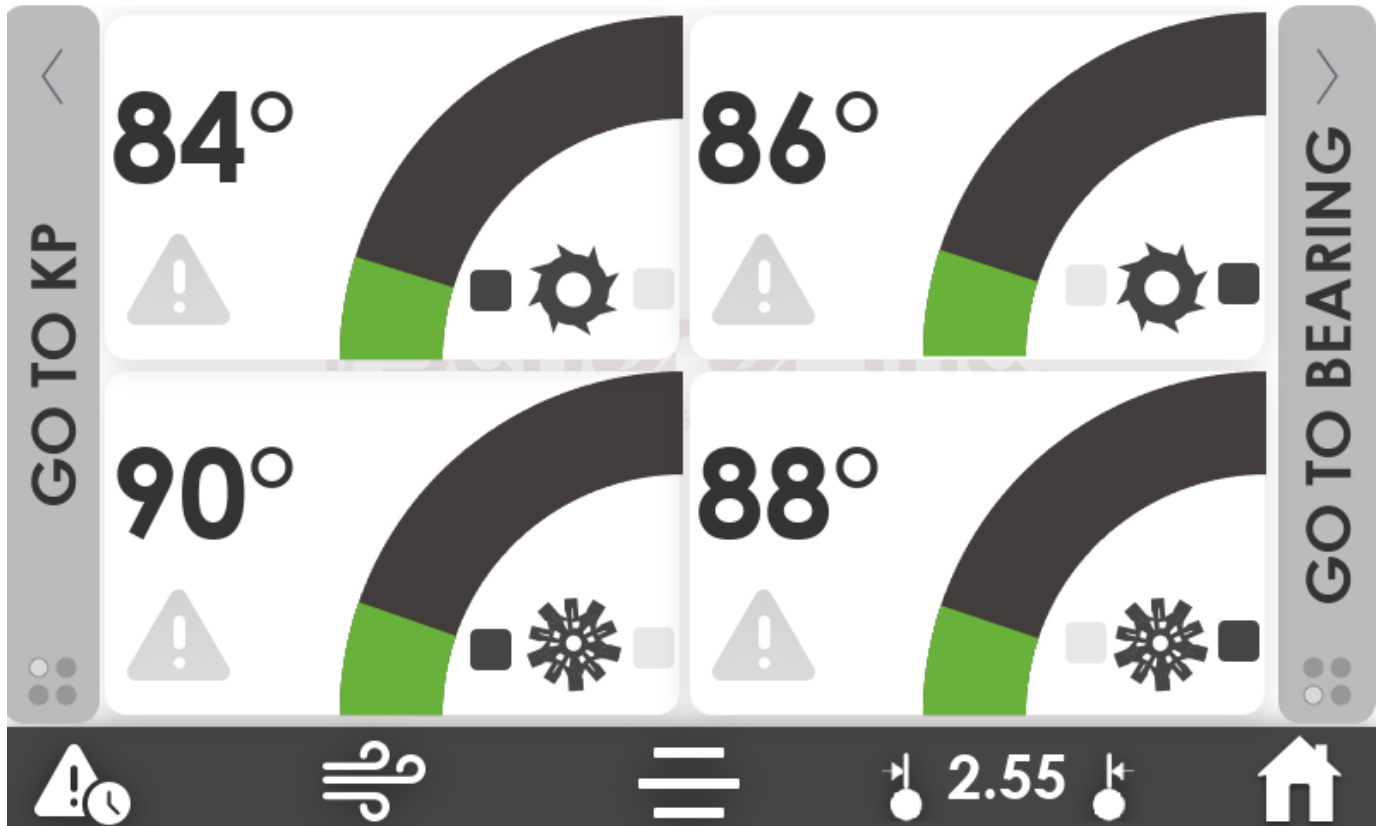


Sentry 4.0 Options

If one of the three Sentry 4.0 options icon is selected but is not activated on the Sentry 4.0 options page the following pop up will occur. This is indicating that the required components for the add on features are needed & the feature needs to be activated.



Extended Sentry



The extended sentry offers a user the ability to monitor the temperature of the cutter head and accelerator bearings. The quadrants above represent the following.

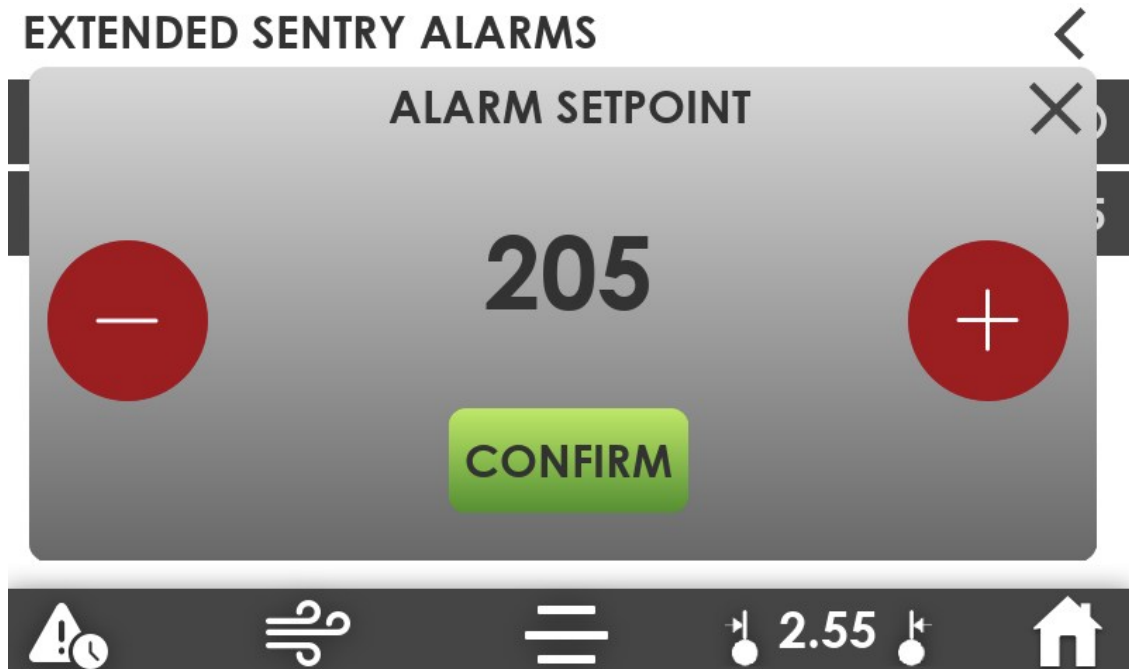
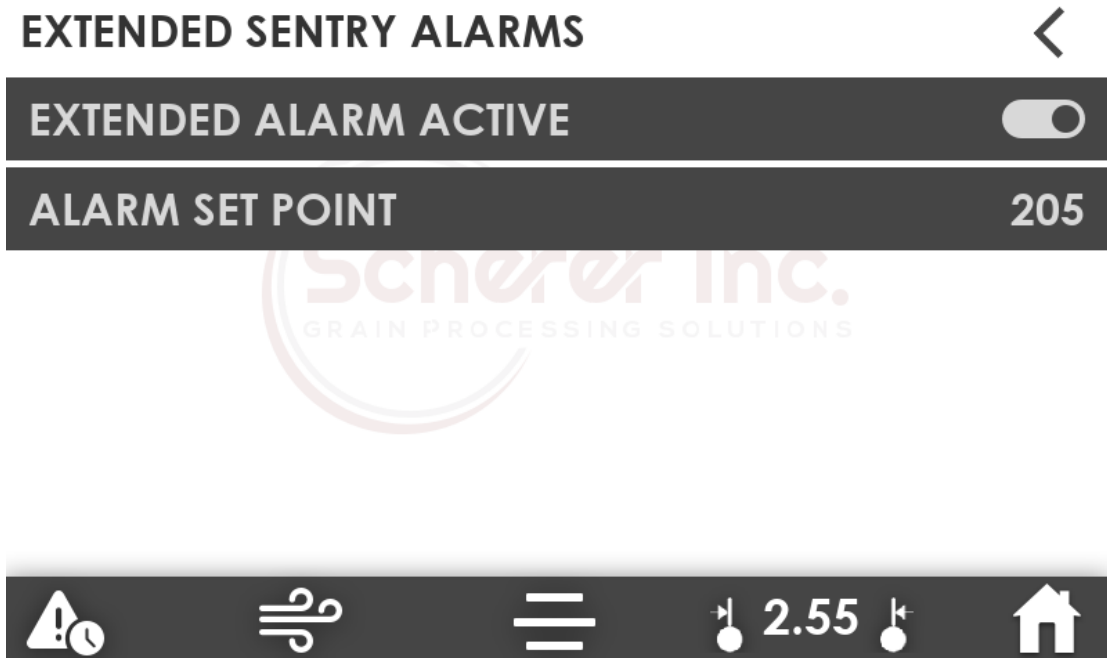
Top left - Left cutter head bearing

Top right - Right cutter head bearing

Bottom left - Left accelerator bearing

Bottom right - Right accelerator bearing

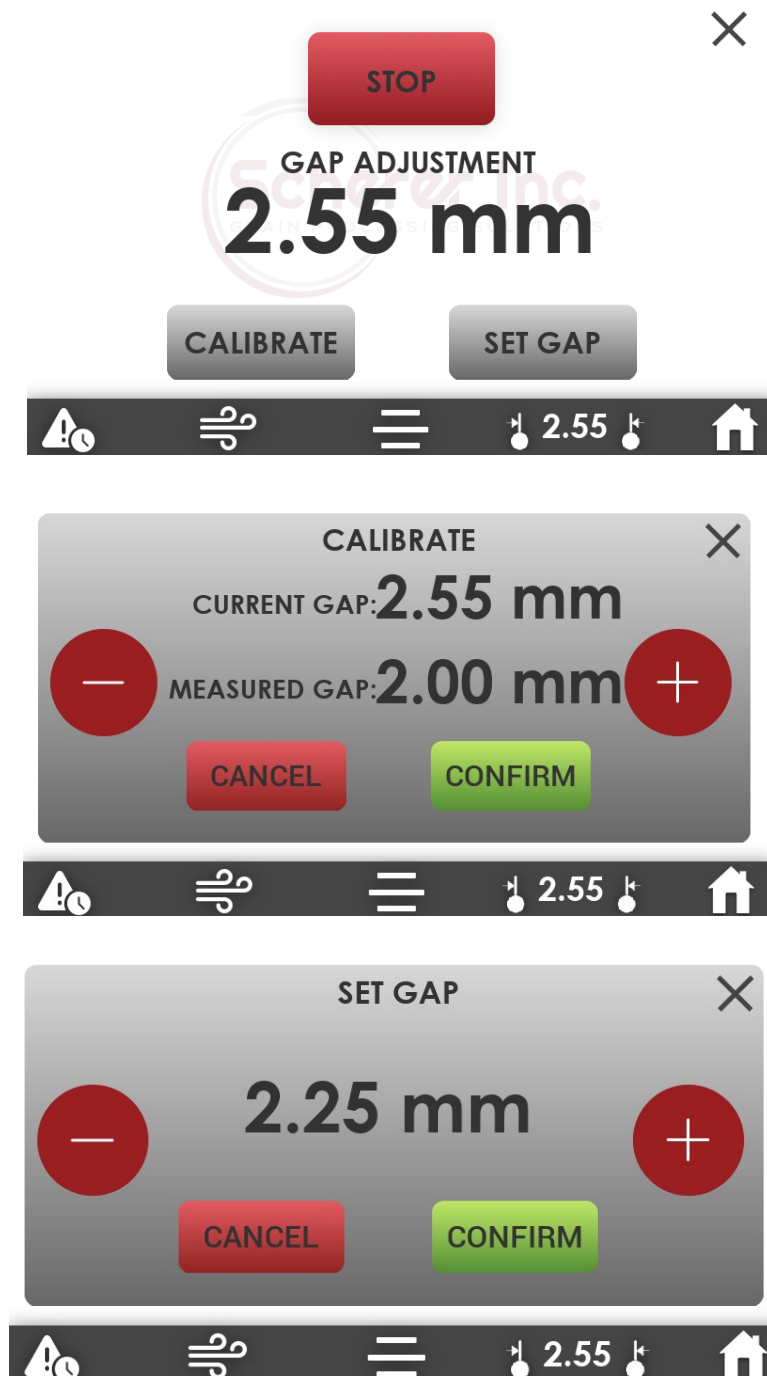
Extended Sentry Alarms



On the extended sentry alarms page a user has the ability to activate or deactivate the alarm for the extended sentry bearings. The extended sentry alarm set point will come set at 205 °F. The user has the ability to change the alarm set point . **SCHERER INC IS NOT RESPONSIBLE FOR AN ACCELERATOR OR CUTTER HEAD BEARING FAILURE.**

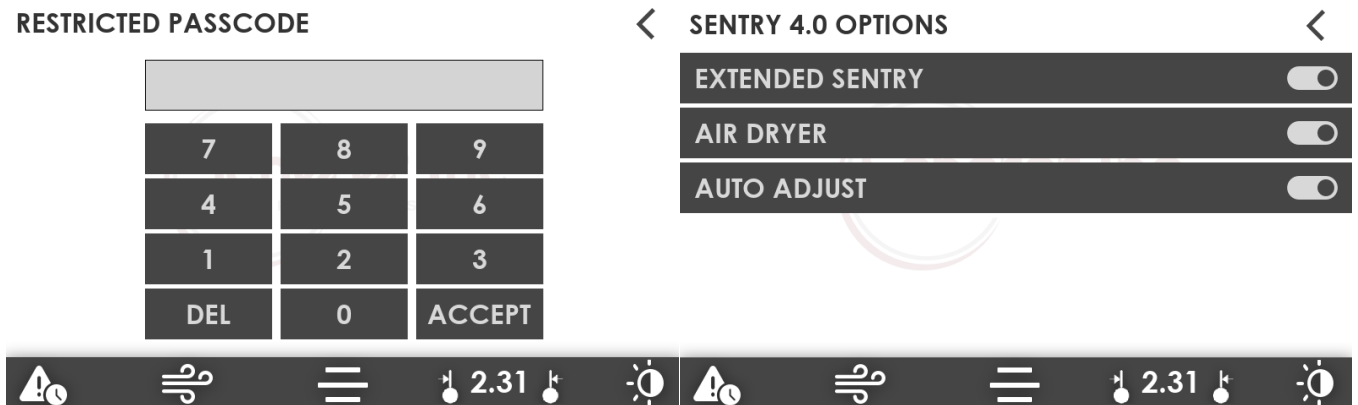
Remote Adjustment

The Sentry 4.0 has the capability of adjusting the roll gap from the cab of the machine. When first using the remote adjust feature, changing rolls, or paralleling the rolls a user must recalibrate the system. The main menu page for the remote adjust has a calibration selection. This will take the operator to the calibration page where the measured gap can be entered. **The calibration page password is "5772".** After calibrating the system the roll gap can be adjusted by selecting the "SET GAP" button. This will prompt a screen where the user can increase or decrease the roll gap in .25mm increments.

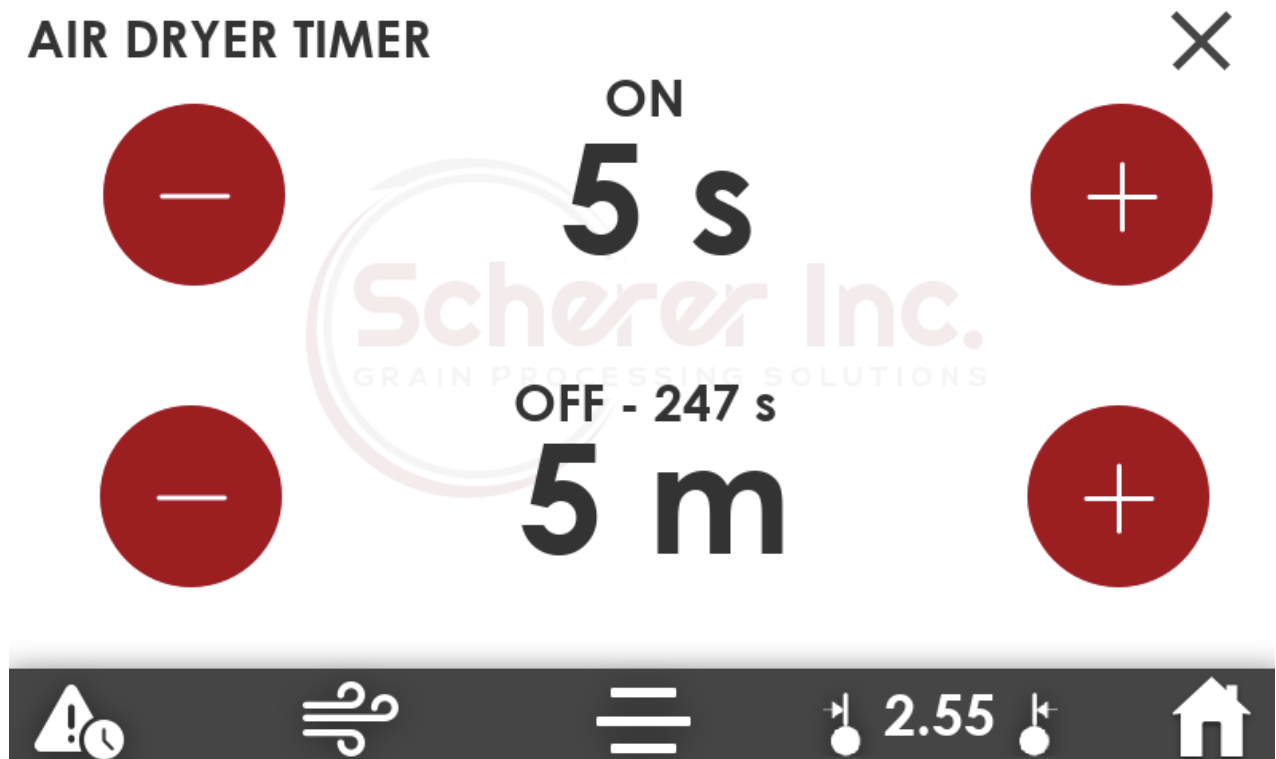


Air Dryer

To activate the air dryer module on the Sentry 4.0 a user must login to the restricted settings and activate this feature. The **password is "5772"**. Once a user is logged in through the restricted settings they can go to the Sentry 4.0 options page and activate the air dryer feature.



With the Sentry 4.0 a user can adjust the On/Off cycle of the air dryer by simply increase or decreasing each of the values. The air dryer does not have a confirmation notification when the On/Off value is changed. Once the value is changed the timing is automatically updated. A countdown will appear next to the On/Off icon showing



Bearing Alarms

Similar to the Sentry 2.0, the Sentry 4.0 has set alarms for the kernel processors bearings. Oil lubricated kernel processors have different set alarms than grease kernel processors. It is important to make sure your Sentry 4.0 system is set to the correct lubrication.

Oil Kernel Processor

Warning (Yellow) - 205

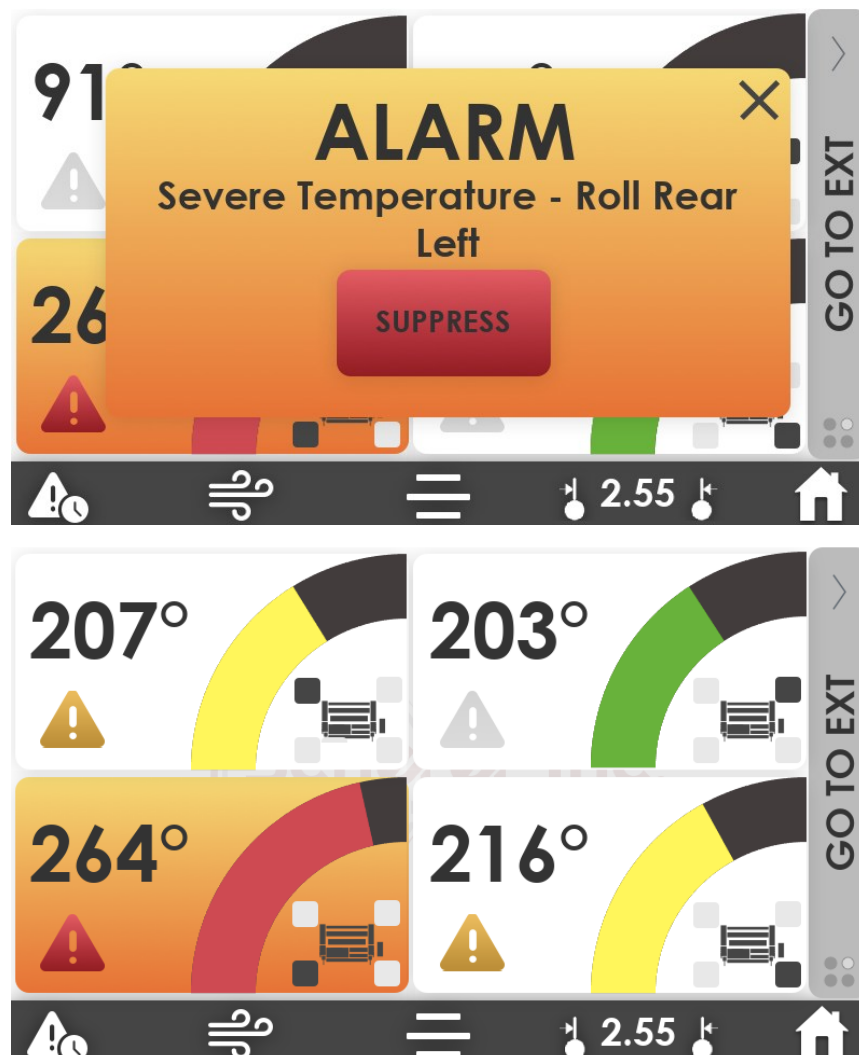
Alarm (Red) - 225

Grease Kernel Processor

Warning (Yellow) - 260

Alarm (Red) - 290

When the temperature threshold gets into the red an alarm will go off and a screen will appear giving the user the opportunity to suppress the alarm. The alarm suppression will only work for a few moments. If the bearing is continually ran in the severe temperature threshold, the alarm will continue to go off.



Bearing Alarm Times

Every time a bearing temperature goes into the set thresholds that time is recorded in the alarm times section. This feature can be accessed by selecting the alarm symbol in the bottom left corner on the main page.

Alarm Times



Roll Front Left:	00:02:32	--:--:--
Roll Front Right:	--:--:--	--:--:--
Roll Rear Left:	--:--:--	00:05:23
Roll Rear Right:	00:02:32	--:--:--
Cutter Left:	--:--:--	
Cutter Right:	--:--:--	
Blower Left:	--:--:--	
Blower Right:	--:--:--	
Idle Pulley:	--:--:--	

Cumulative Alarm Time

00:05:23

Alarm Suppression

5

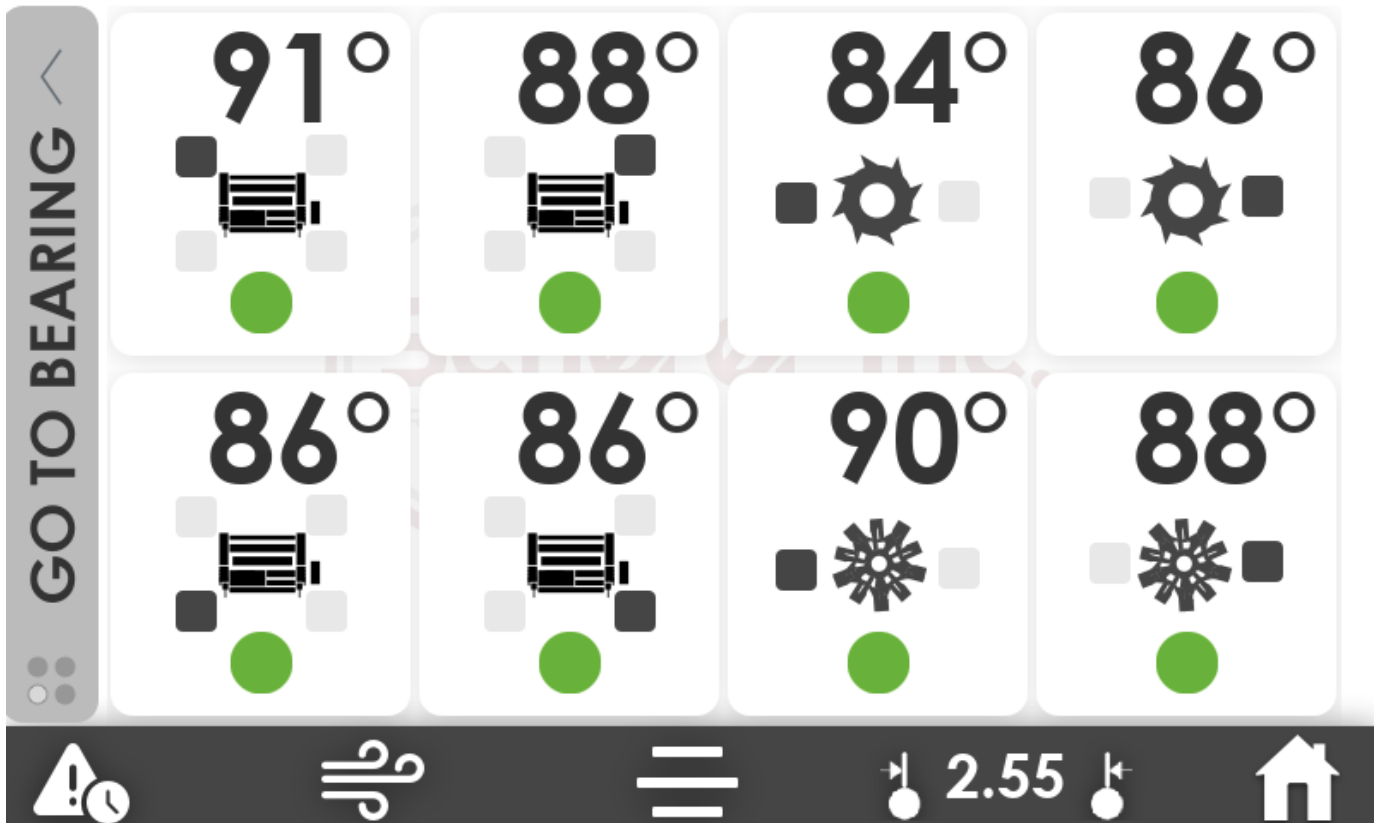


2.55



Temperature Screen

An operator has the option of viewing all four kernel processor bearing temperatures and all four extended sentry temperatures on the same screen. To do so select the grey side bar on the main page . This selection will need to be selected three times. The first selection will bring up the extended sentry alarms, second will bring up idle pulley, and the third will bring up the 8 temperature page.

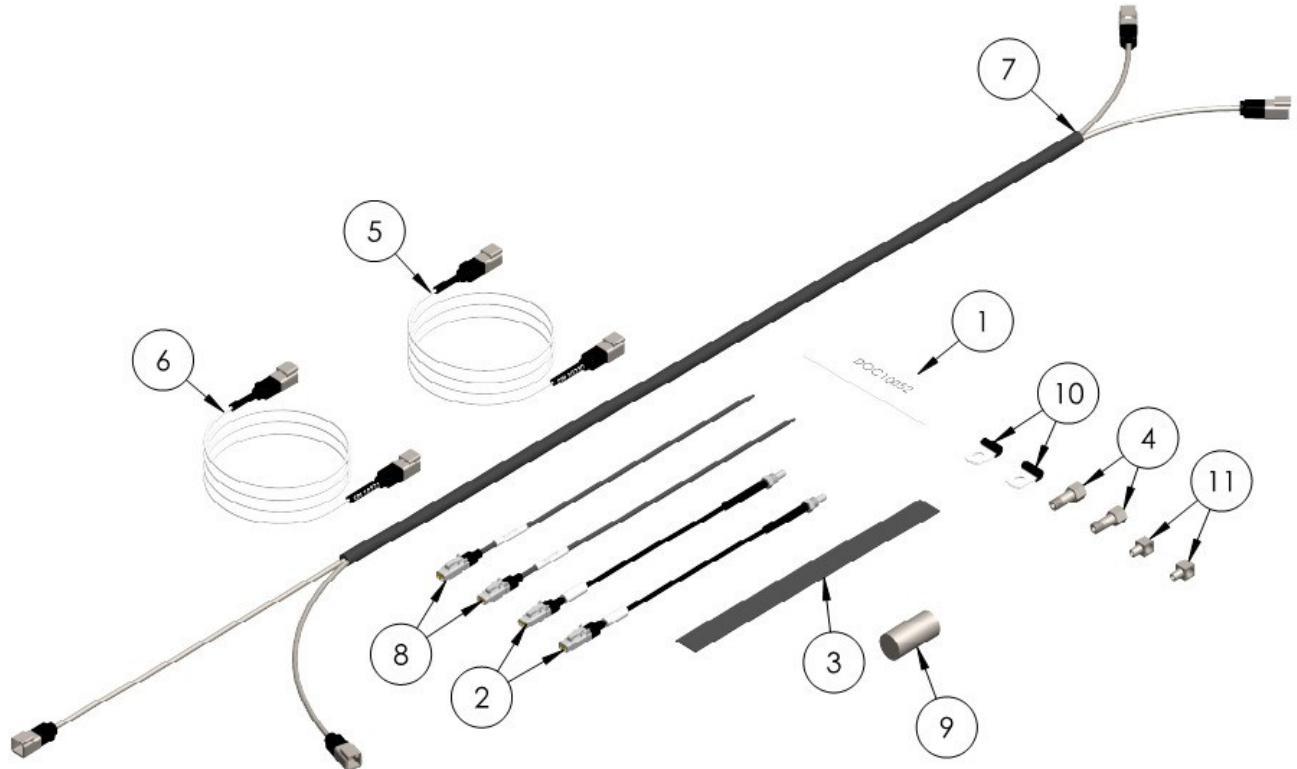


Scherer Sentry 4.0 - ASM10695



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BLT10237	BUTTON HEAD SCREW	4
2	BLT10238	BOLT	4
3	NUT10069	NUT	4
4	PM1006	MOUNTING ARM	1
5	PM21004.1	MAGNET	4
6	PM22010	PLUG CAP ASSEMBLY	1
7	SPL10253	OVS50 DISPLAY	1
8	SPL10254	SENTRY 4.0 CONTROL MODULE	1
9	SPL10256	SENTRY 4.0 HARNESS	1
10	SPL10278	BALL MOUNT	1
11	SPL10288	BALL MOUNT C-CLAMP	1
12	SPL10312	HARNESS JUMPER	1
13	SPL10313	ON/OFF SWITCH	1
14	SPL10327	SPACER	4
15	SPL10340	KP CABLE	1
16	SPL10350	KP CABLE CAP	1
17	SPL10464	SENTRY POWER CABLE	1
18	WSH10015	LOCK WASHER	4
19	WSH10052	FLAT WASHER	4
20	WSH10053	LOCK WASHER	4

Extended Sentry - ASM10738



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DOC10052	EXTENDED SENTRY INSTALLTION	1
2	PM22007	TEMPERATURE PROBE	2
3	PRT10613	ADHESIVE TAPE	1
4	PRT11016	EXTENSION	2
5	SPL10230	LEFT HAND ACCELERATOR BEARING EXTENSION CABLE	1
6	SPL10231	RIGHT HAND ACCELERATOR BEARING EXTENSION CABLE	1
7	SPL10232	CUTTER HEAD BEARING EXTENSION CABLE	1
8	SPL10238	TEMPERATURE PROBE	2
9	SPL10371	EPOXY PUTTY	1
10	SPL10462	WIRE HOLD DOWN	2
11	SPL10463	REDUCER 90	2

Extended Sentry Installation

Scherer's Extended Sentry is offered to monitor the bearing temperatures of the accelerator and cutter head bearings. The Extended Sentry extension cables plug into the Sentry 4.0 harness.

Surface Cleanliness

Prior to installing the temperature probe to the bearing housing it is **CRUCIAL** that the housing is cleaned with a degreasing agent to remove all oil, grease, and debris from the surface. Failure to do so will result in the probe falling off. The probe can be attached with either adhesive tape (**Image 1**) or putty (**Image 2**). When using the putty remove enough putty from the container to cover the end of temperature probe. Prior to placing the putty on the probe, follow the manufacture steps on the bottle to properly prepare the putty **Image 2**. Once the putty is around the end of the probe, the probe can be placed on the housing.

Image 1



Image 2



Extended Sentry Installation

Left Hand Accelerator Bearing

The left hand accelerator bearing is located on driven side of the machine. Remove the hex plug from the bearing housing and install the probe to the housing with the provided elbow and extension (**Image 1**). Route the harness towards the rear of the machine and upwards. Secure the harness with a insulated metal clamp using existing bolt. The clamp can be positioned so the wire angles towards the side wall of the machine to keep it away from the drive belt. Leave enough wire for when the accelerator moves position. The probe can be zip tied to the steel lines (**Image 2**). The extension wire can be routed along the steel line and then behind the chute and connected with the control module.

Image 1

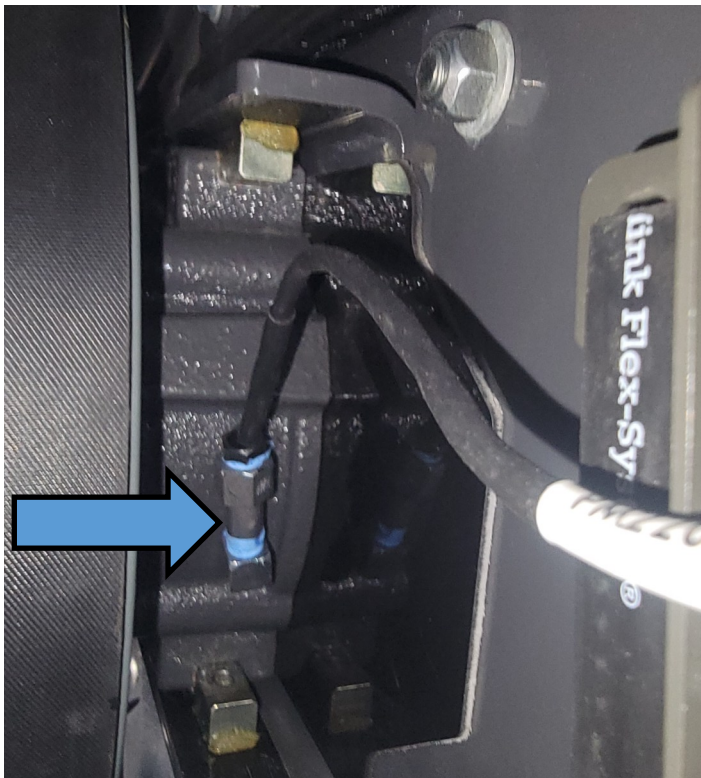
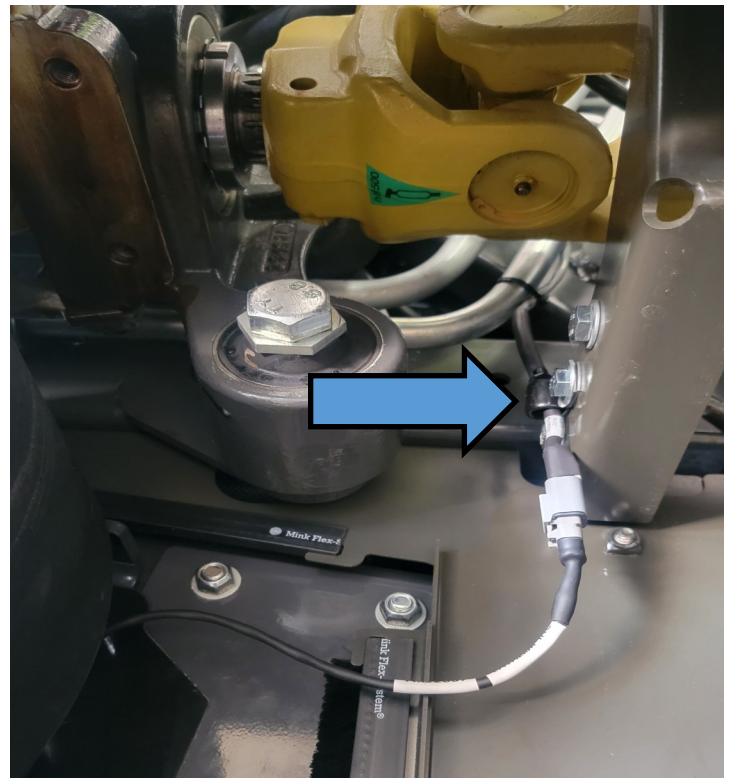


Image 2



Extended Sentry Installation

Right Hand Accelerator Bearing

The right hand accelerator bearing is the pulley that drives the kernel processor. Remove the grease zerk from the bearing housing and install the probe to the housing with the provided elbow and extension. The elbow can be positioned so the wire angles towards the side wall of the machine to keep it away from the drive belt. Secure the harness with a insulated metal clamp using existing nut. Leave enough wire for when the accelerator moves position. **(Image 1)**. The extension wire can be routed up to the control module located on the right side of the accelerator. The processor belt shield will need to be trimmed to allow clearance for the sensor assembly **(Image 2)**.

Image 1

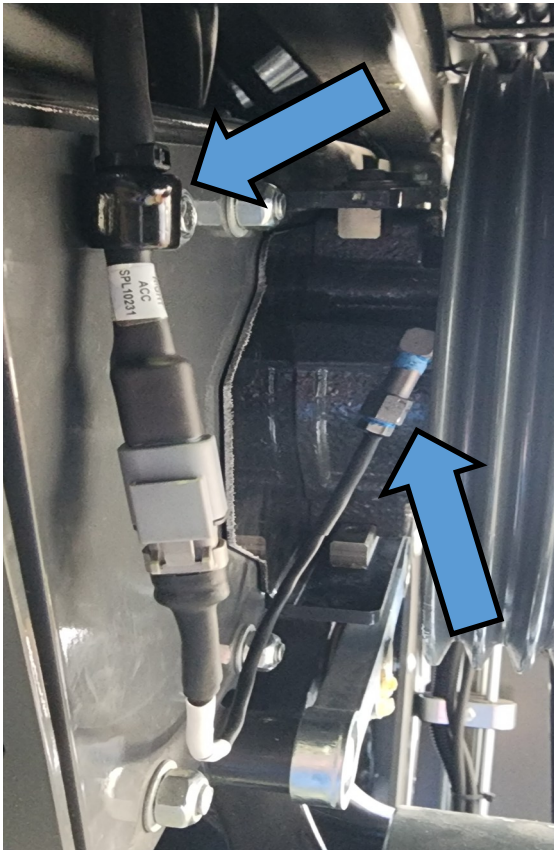
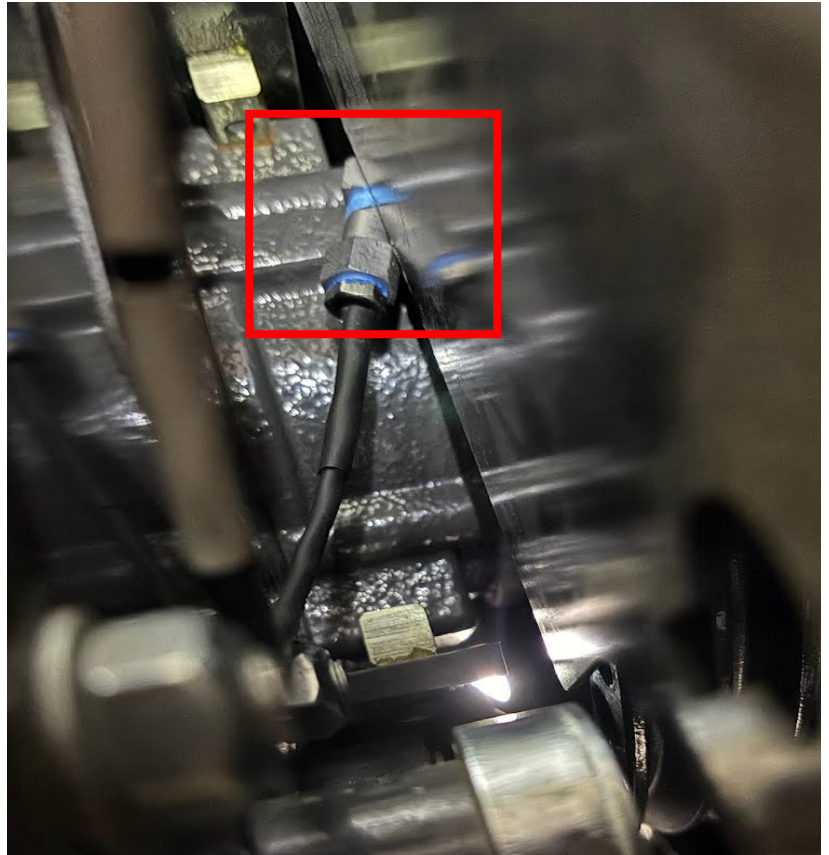


Image 2



Extended Sentry Installation

Left Hand Cutter Head Bearing

The left hand cutter bearing is located on drive side of the machine. The cutter head extension wire is loomed together with each end labeled for the appropriate side. Route the harness along the right side of the accelerator and down to the cutting cylinder housing. Secure the harness to the cutter housing wire harness leaving some slack to allow the cutting cylinder to pivot up and down (**Image 1**).

Image 1



Extended Sentry Installation

Left Hand Cutter Head Bearing

Follow the grease lines that goes to this bearing and install the probe to the housing surface with the provided adhesive tape or putty **(Image 1)**. **BE SURE TO CLEAN THE SURFACE WITH A DEGREASER BEFORE PLACING THE PROBE.** The probe wiring can be zip tied to the grease line. The extension wire can be routed along the grease line and then up along the wire harness for the left side cutter head **(Image 2)**.

Image 1

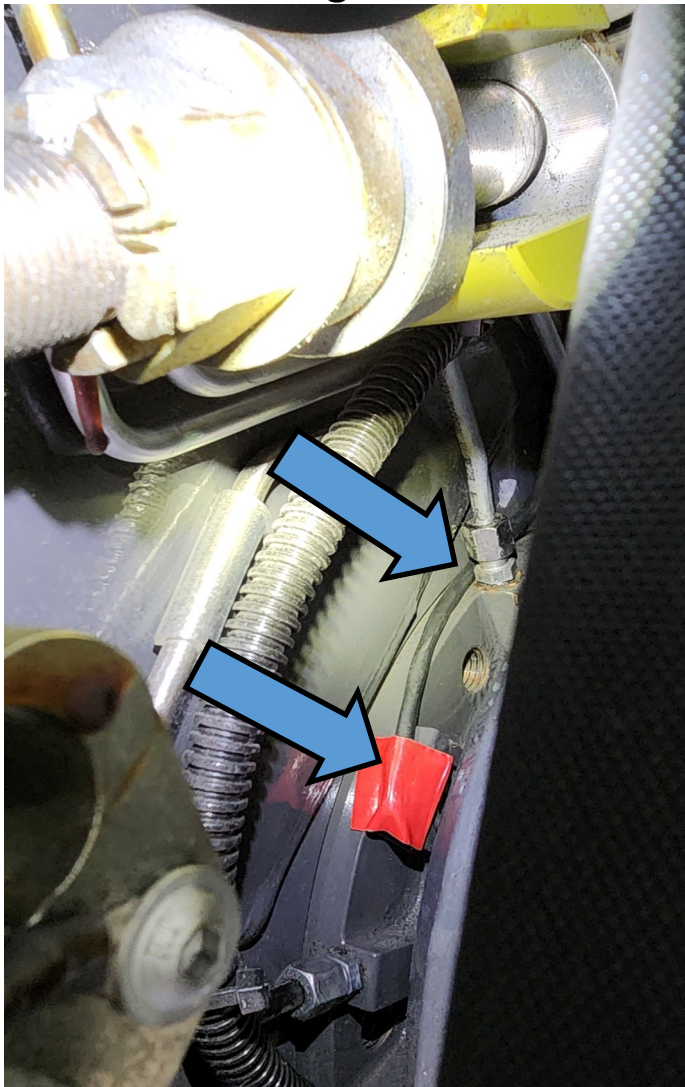
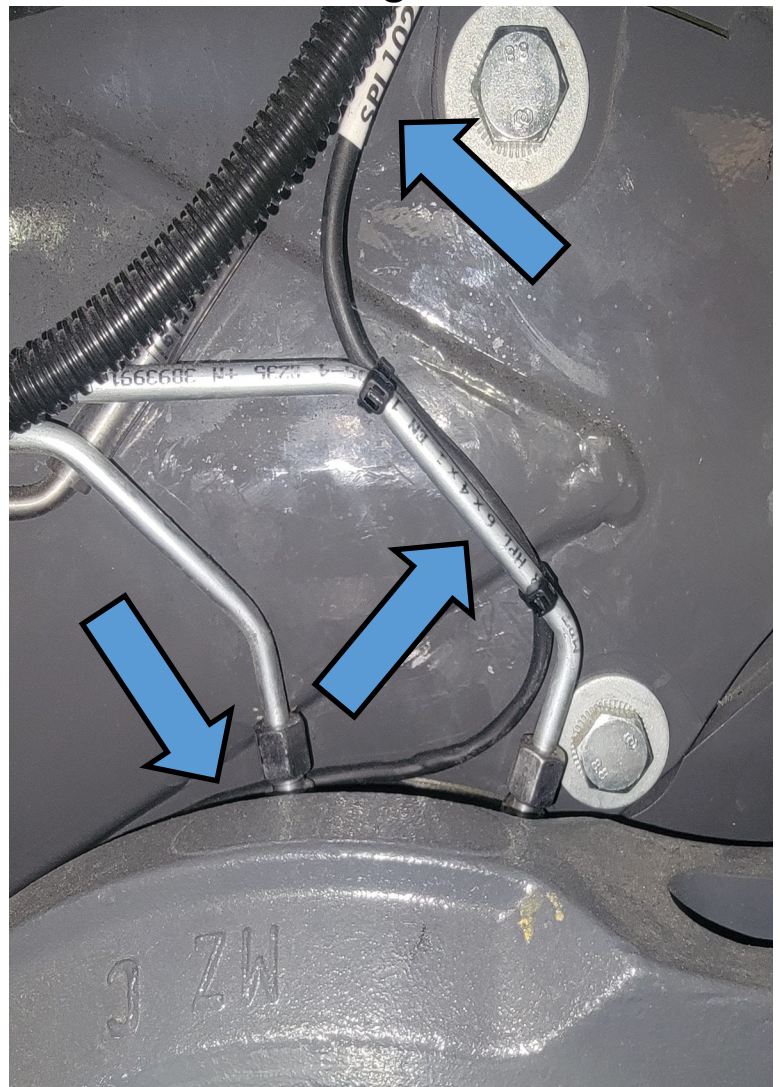


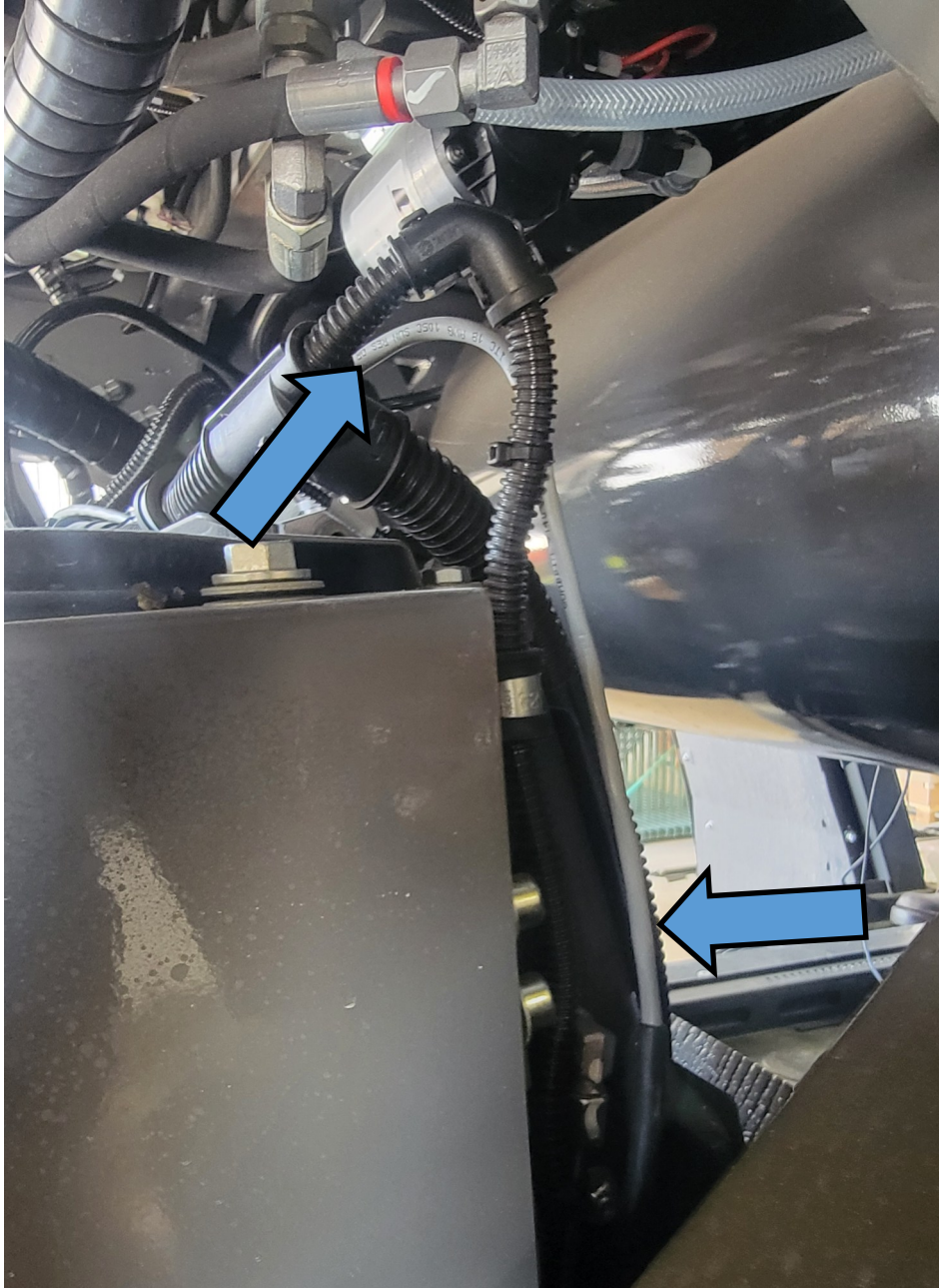
Image 2



Extended Sentry Installation

Left Hand Cutter Head Bearing

The extension wire can be routed up the left side of the cutting cylinder housing following the wire harness above

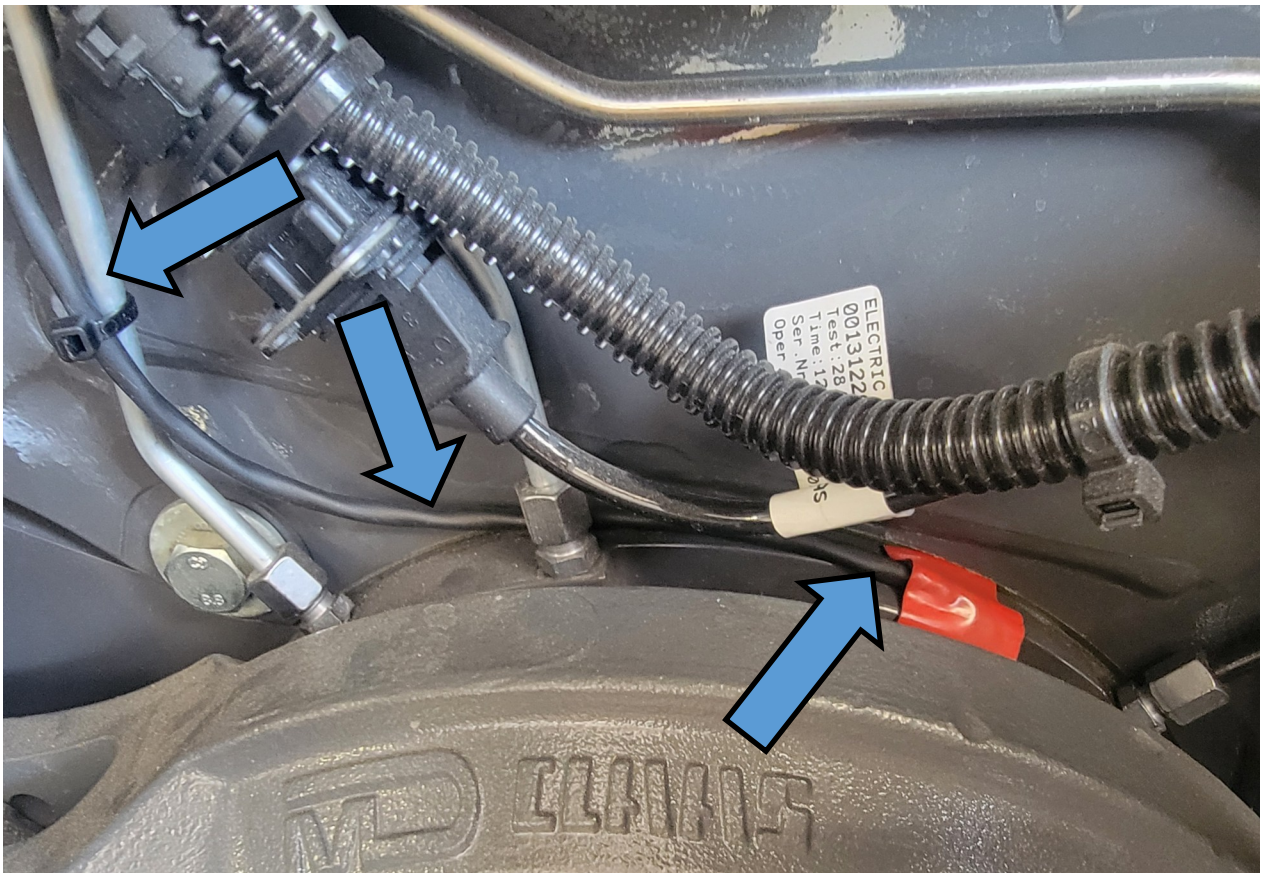


Extended Sentry Installation

Right Hand Cutter Head Bearing

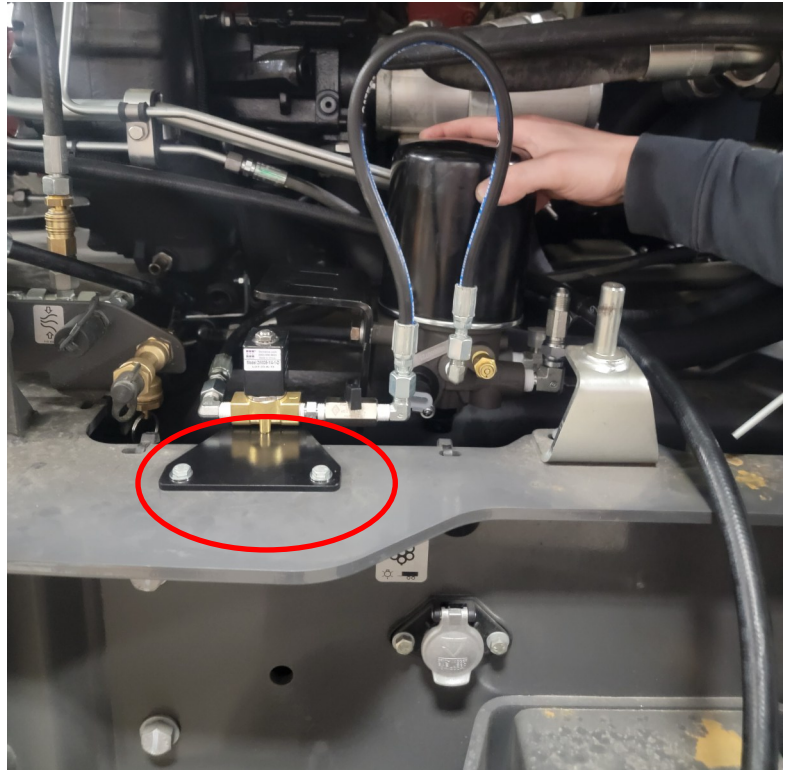
Follow the grease lines that goes to this bearing and install the probe to the housing surface with the provided adhesive tape or putty (**Image 1**). **BE SURE TO CLEAN THE SURFACE WITH A DEGREASER BEFORE PLACING THE PROBE.** The probe wiring can be zip tied to the grease line. The extension wire can be routed along the grease line and then up along the wire harness for the right side cutter head

Image 1

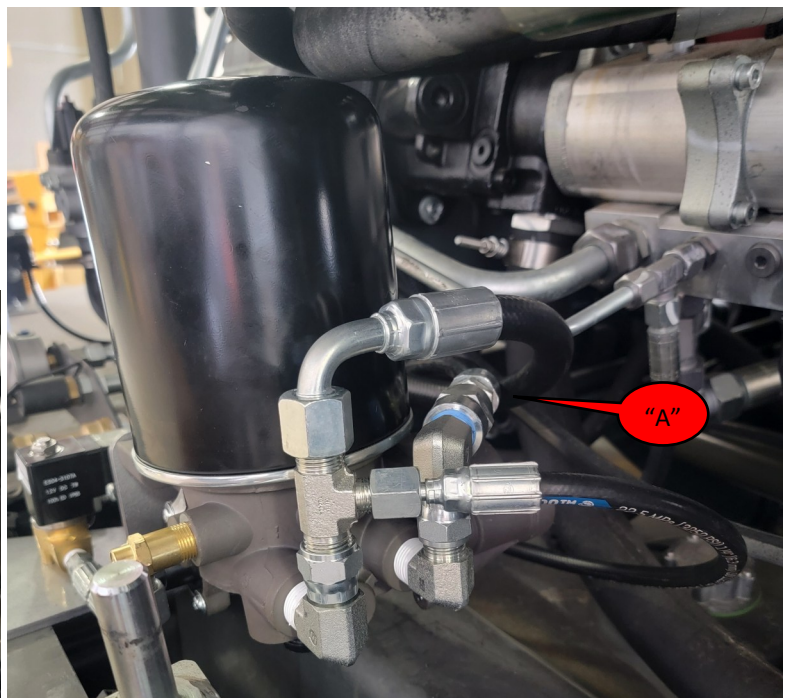


Extended Sentry Installation

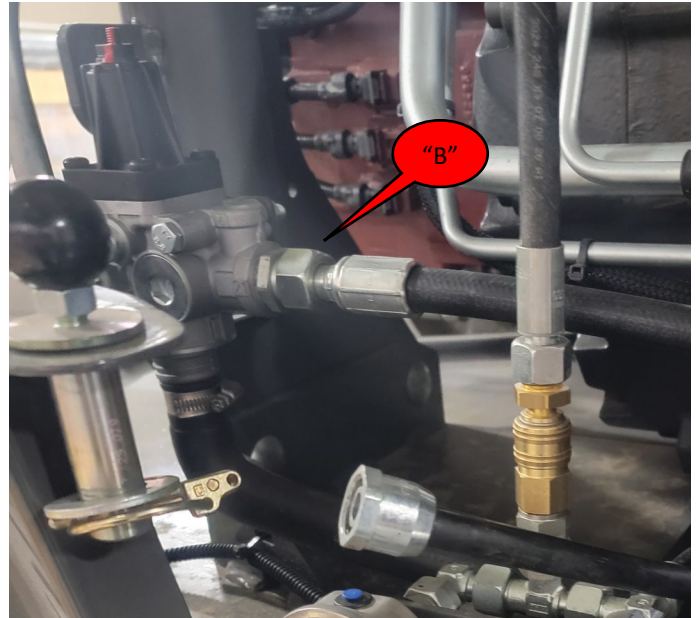
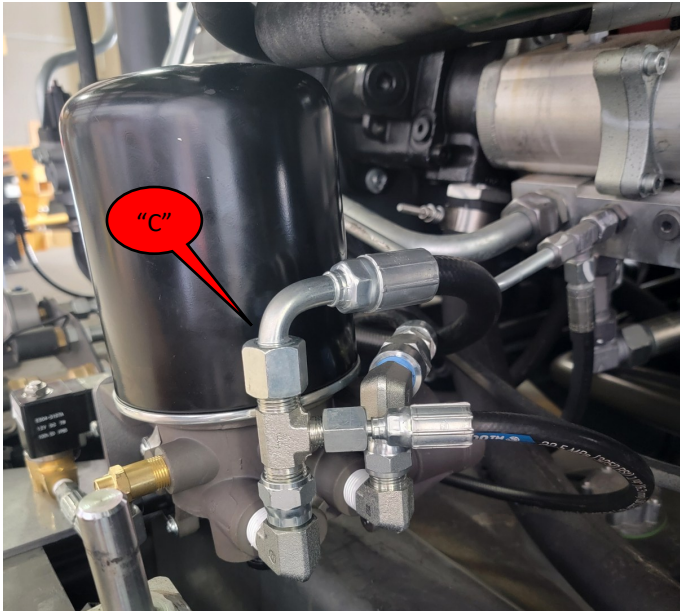
1.) Open the rear engine access door and install the air dryer in the two existing holes using the provided hardware. The holes are located to the left of the door latch pin.



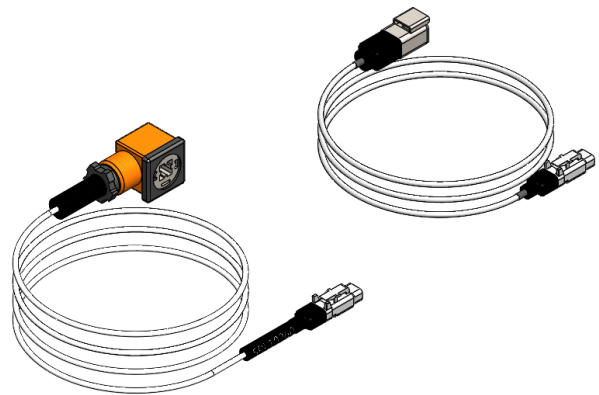
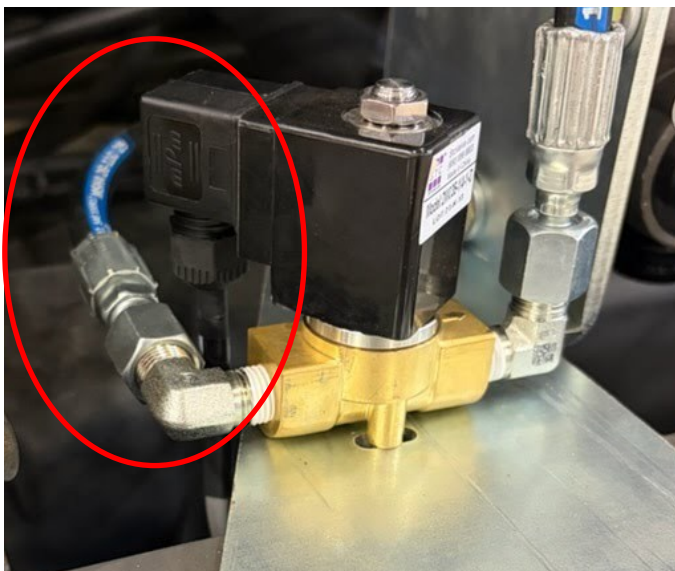
2.) Disconnect the factory air line and connect it to the air dryer at port "A"



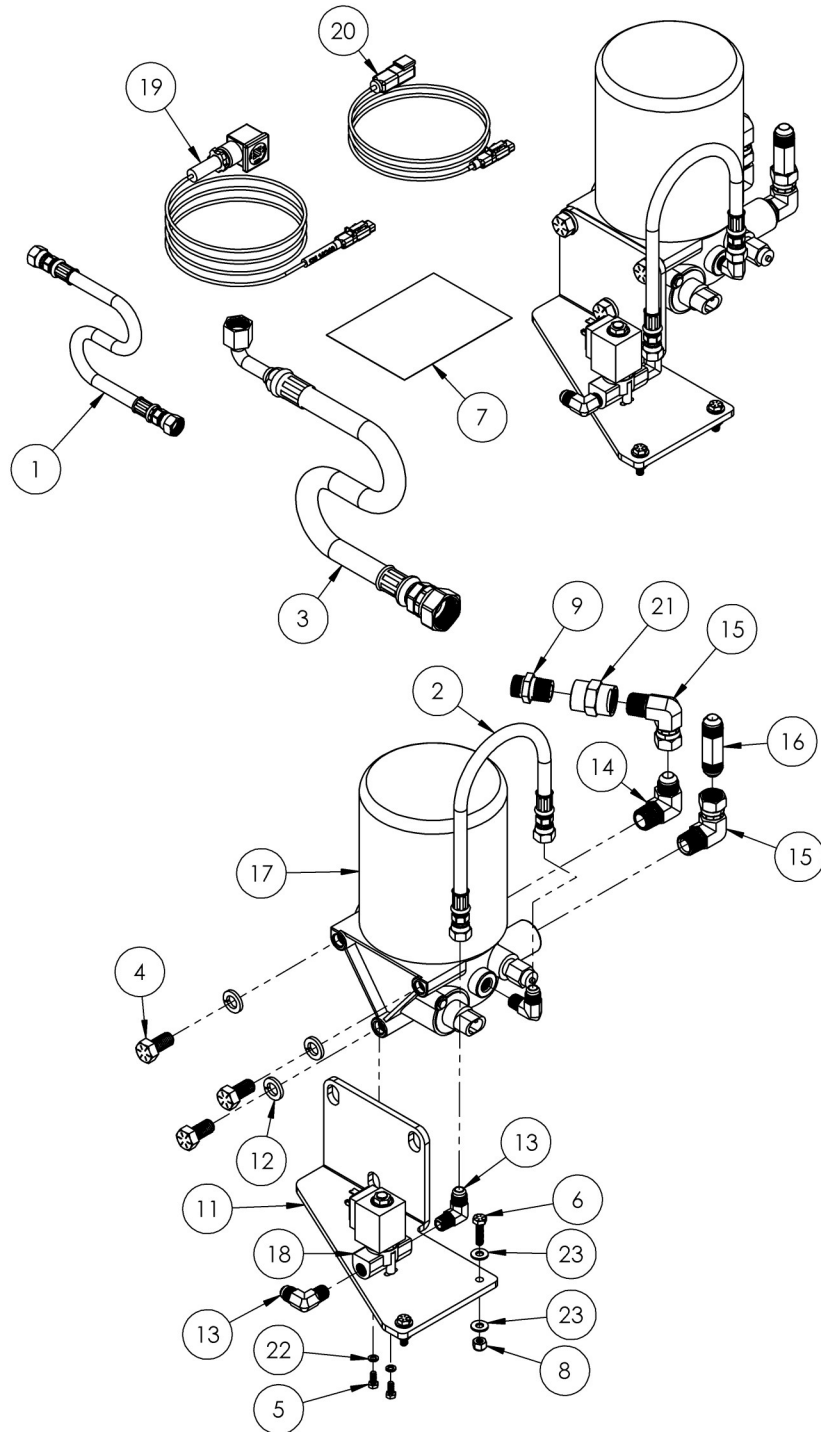
3.) Connect the 90 degree end of hose ASM10739 to the air dryer connection "B". Attach the straight end of the same hose to the machine air regulator "C".



4.) Connect SPL10260 to the solenoid. Route the wire and extension wire SPL10311 to the KP compartment to connect with the Sentry 4.0 main harness.



Sentry 4.0 Air Dryer Parts List—ASM10736

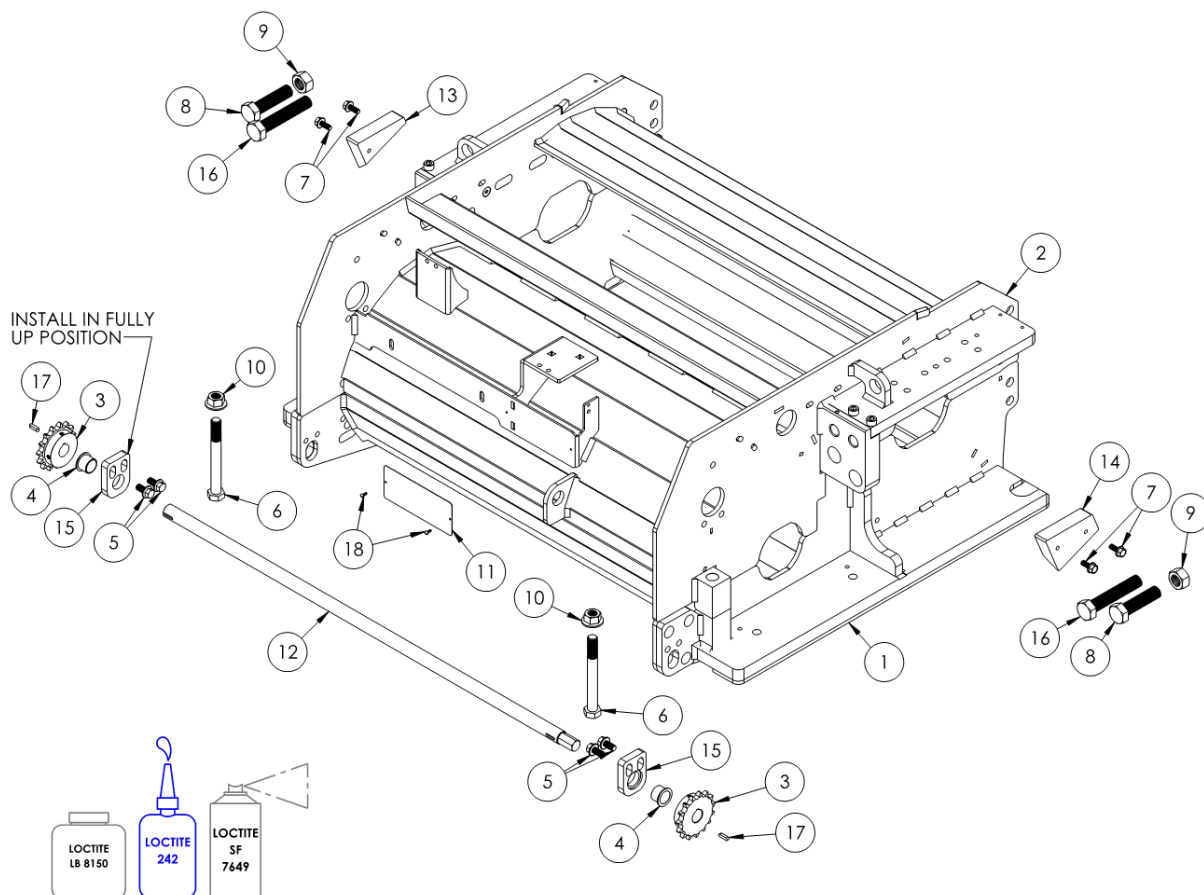


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10003	1/4" HOSE AIR DRYER 24"	1
2	ASM10737	AIR DRYER SIGNAL HOSE	1
3	ASM10739	AIR DRYER INLET HOSE	1
4	BLT10060	HEX HEAD BOLT	3
5	BLT10120	HEX HEAD BOLT	2
6	BLT10121	HEX HEAD BOLT	2
7	DOC10051	1000 SERIES AIR DRYER INSTRUCTIONS	1
8	NUT10031	NYLOCK NUT	2
9	OM1047	MALE STUD COUPLING	1
10	PRT10005	AIR DRYER RELIEF FITTING	1
11	PRT11010	MOUNTING BRACKET	1
12	R1231	LOCK WASHER	3
13	SPL10065	90 DEGREE ADAPTOR FITTING	2
14	SPL10066	90 DEGREE ADAPTOR FITTING	1
15	SPL10067	90 DEGREE ADAPTOR FITTING	2
16	SPL10068	TEE FITTING	1
17	SPL10069	AIR DRYER	1
18	SPL10074	SOLONOID FOR TIMER	1
19	SPL10260	AIR DRYER CABLE	1
20	SPL10311	499 AIR DRYER EXTENSION CABLE	1
21	SPL10461	COUPLING	1
22	WSH10015	LOCK WASHER	2
23	WSH10025	FLAT WASHER	4

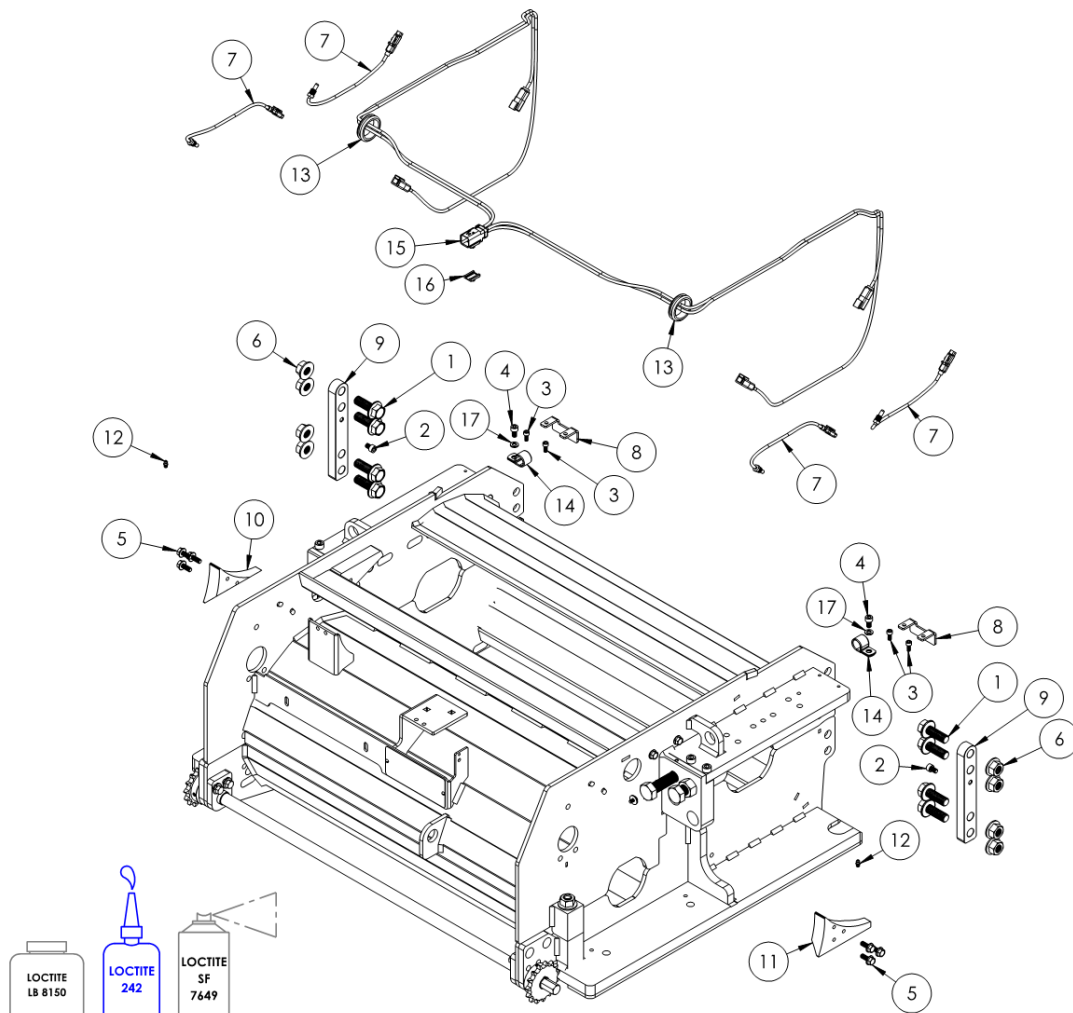
Roll Gap Adjustment

Once the processor is installed in the cutter and some product has been run through it, you may need to adjust the roll gap. To do this, you will use the provided tool attached to the gearbox on the drive side. As you turn the hex shaft with the provided tool, watch the gear indicator. The face depicted on the decal indicates the gap of the rolls. You will not be able to adjust the rolls closer than .5 mm (.02") because of the factory setting of the roll stops (prevents the rolls from hitting). **The processor is not intended to be run with the slide blocks against the roll stops.** The processor was set at the factory to 2mm. After you have a number of hours on your processor you may need to adjust your rolls together to compensate for wear. After a number of adjustments the adjustment bolts may become free from tension. If you still need to close your roll gap further, you may have to clean behind the bearing slide plates and adjust roll stop bolts to allow for more movement. Anytime the rolls are adjusted to compensate for wear the indicator gear can be adjusted accordingly. To do this a user will have to measure the gap between the rolls and then loosen the two bolts holding the indicator rack in position. The operator can then slide the indicator gear to the correct position.

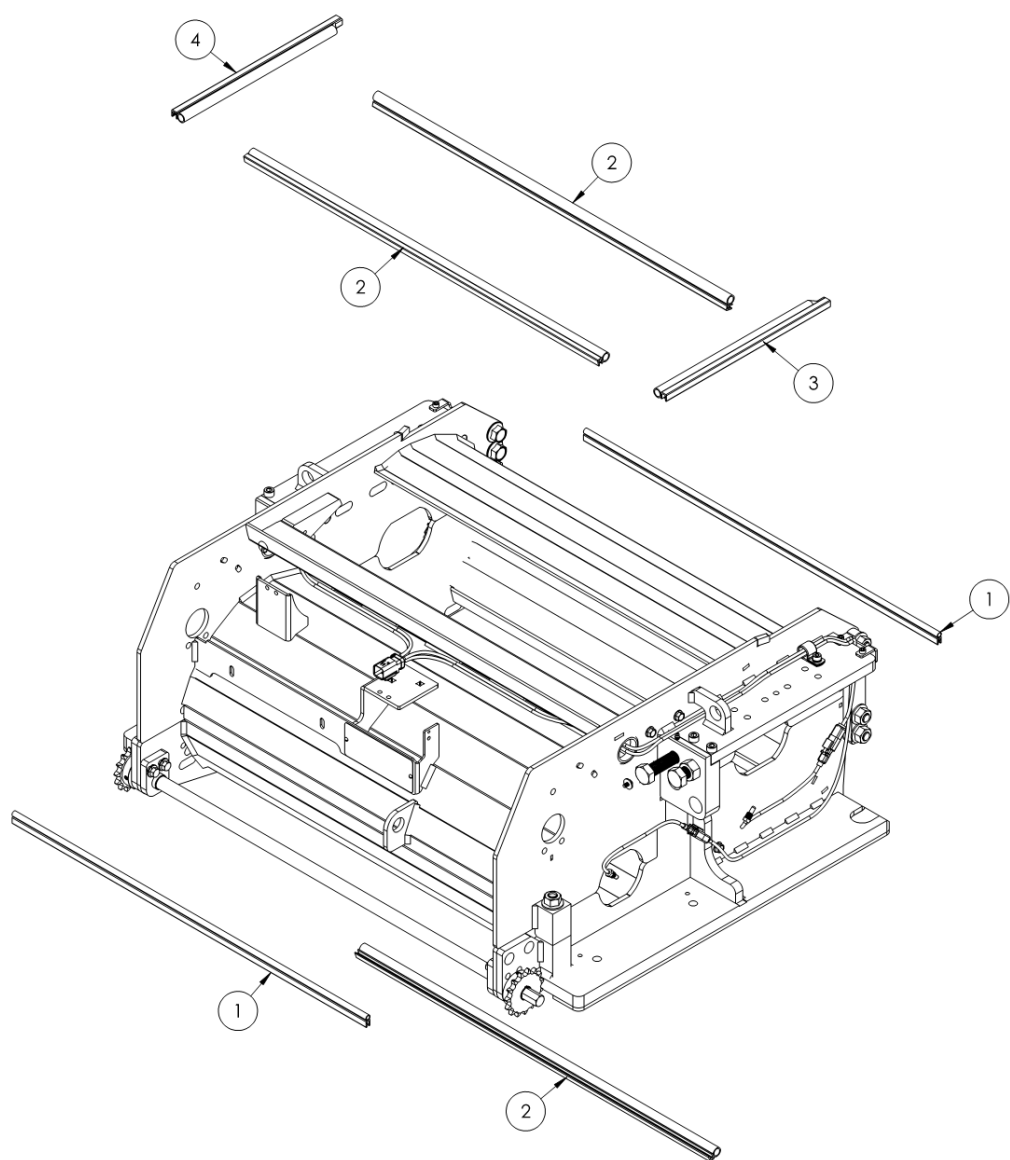
Parts List



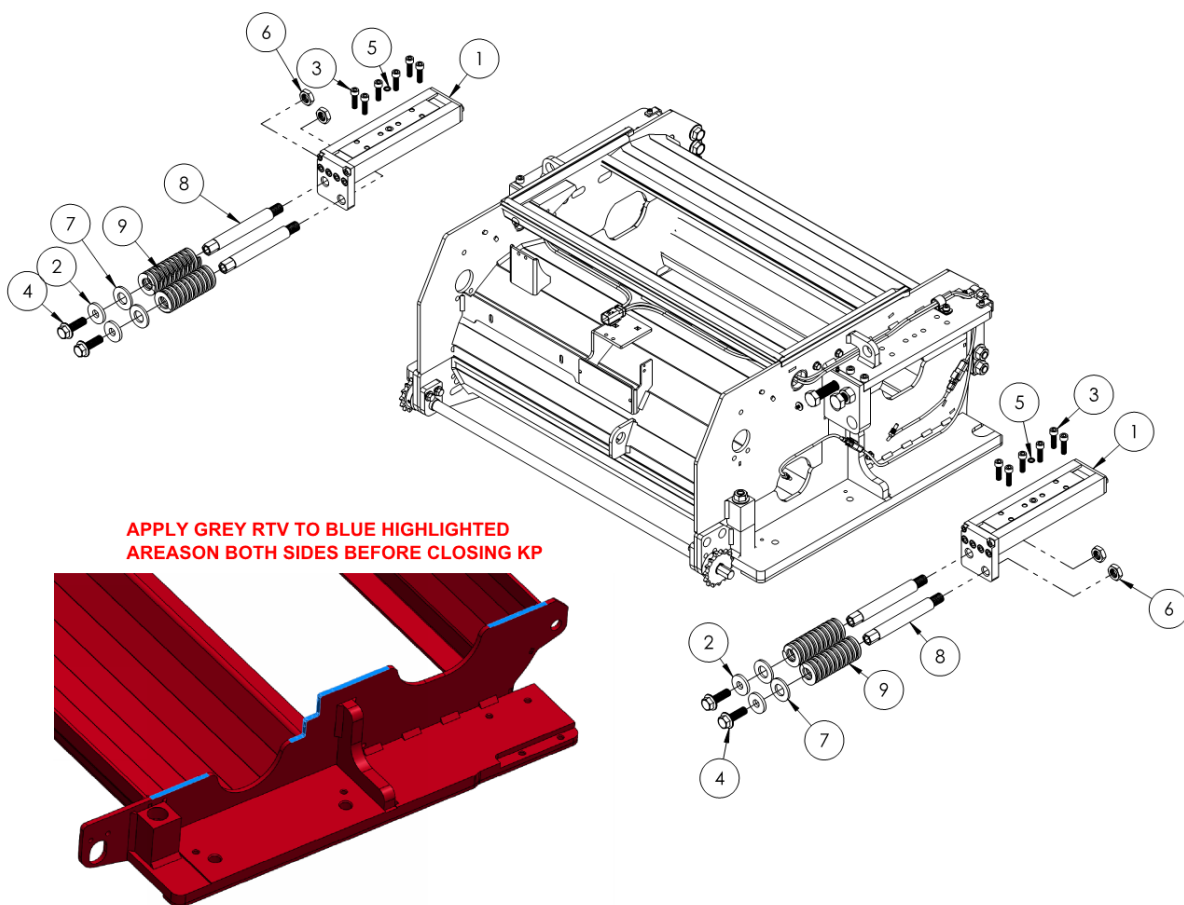
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	APPLY	TORQUE (FT-LBS)
1	ASM10641	1300SI BOTTOM FRAME	1		
2	ASM10642	1300SI TOP FRAME	1		
3	B1027-15	POSITION ROD SPKT (498/497)	2		
4	B1030	POSITION ROD BUSHING	2		
5	BLT10179	HEX HEAD FLANGE BOLT	4		
6	BLT10182	HEX HEAD BOLT	2	LB8150	173
7	BLT10190	FLANGE BOLT	4	7649/242	
8	JDBM1108	SLIDE STOP BOLT	2	LB8150	
9	NUT10000	HEX NUT	2		
10	NUT10049	LOCKING FLANGE NUT	2		
11	PRT10085	SCHERER SERIAL PLATE	1		
12	PRT10755	PROCESSOR POSITION ROD	1		
13	PRT10757	TOP LEFT SIDE CHEEK PLATE	1		
14	PRT10795	TOP RIGHT SIDE CHEEK PLATE	1		
15	PRT10838	INSTALLATION SHAFT MOUNT	2		
16	PRT10995	ADJUSTMENT BOLT	2	LB8150	
17	SPL10003	MACHINE KEY	2		
18	SPL10047	DRIVE SCREW	2		



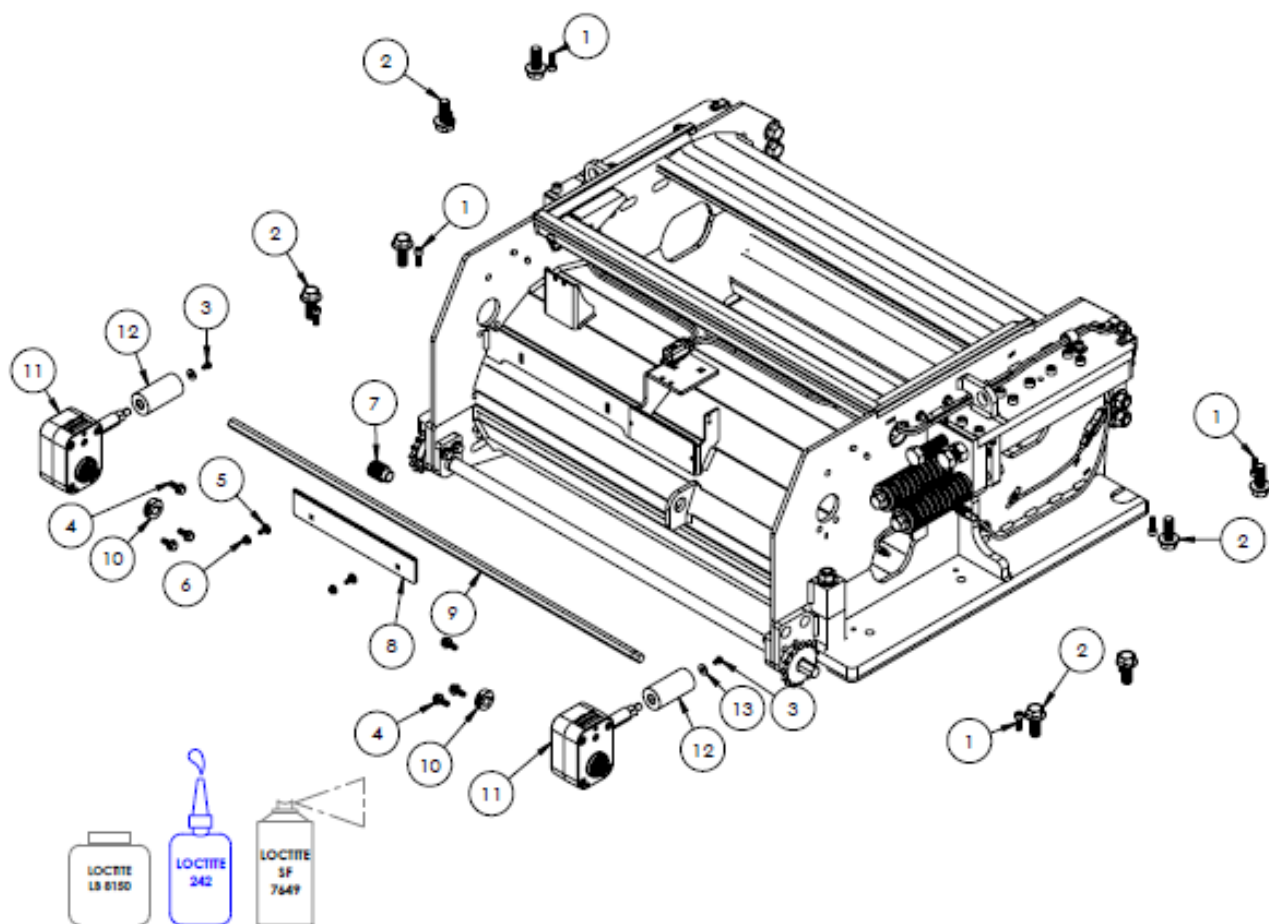
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	APPLY	TORQUE (FT-LBS)
1	BLT10016	FLANGE BOLT	8	LB8150	121
2	BLT10108	SOCKET HEAD CAP SCREW	2		
3	BLT10113	SOCKET HEAD CAP SCREW	4		
4	BLT10178	SOCKET HEAD CAP SCREW	2		
5	BLT10190	FLANGE BOLT	6	7649/242	
6	NUT10049	LOCKING FLANGE NUT	8		
7	PM22007	TEMPERATURE PROBE	4		
8	PRT10211	HOSE KEEPER	2		
9	PRT10770	HINGE PLATE	2		
10	PRT10996	BOTTOM LEFT CHEEK PLATE	1		
11	PRT10997	BOTTOM RIGHT CHEEK PLATE	1		
12	SPL10006	ZERK	2		
13	SPL10139	GROMMET	2		
14	SPL10221	CLAMP	2		
15	SPL10263	SPLITTER CABLE	1		
16	SPL10265	MOUNTING CLIP	1		
17	WSH10002	LOCK WASHER	2		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PRT10787	FRAME SEAL	2
2	PRT10788	CONNECTION SEAL	3
3	PRT10789	DRIVE SIDE CONNECTION SEAL	1
4	PRT10983	IDLE SIDE CONNECTION SEAL	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	APPLY	TORQUE (FT-LBS)
1	ASM10697	SIDE SLIDE ASSEMBLY	2		
2	B1002	SPRING BOLT WASHER	4		
3	BLT10157	SOCKET HEAD CAP SCREW	12		62
4	BLT10306	FLANGE BOLT	4	LB8150	173
5	HPMT1105	O-RING	2		
6	NUT10033	HEX JAM NUT	4		
7	PRT10786	SPRING SPACER 7 GAUGE	4		
8	PRT10792	SPRING ROD	4	7649/271	330
9	SPL10383	BEARING SLIDE SPRING	4		

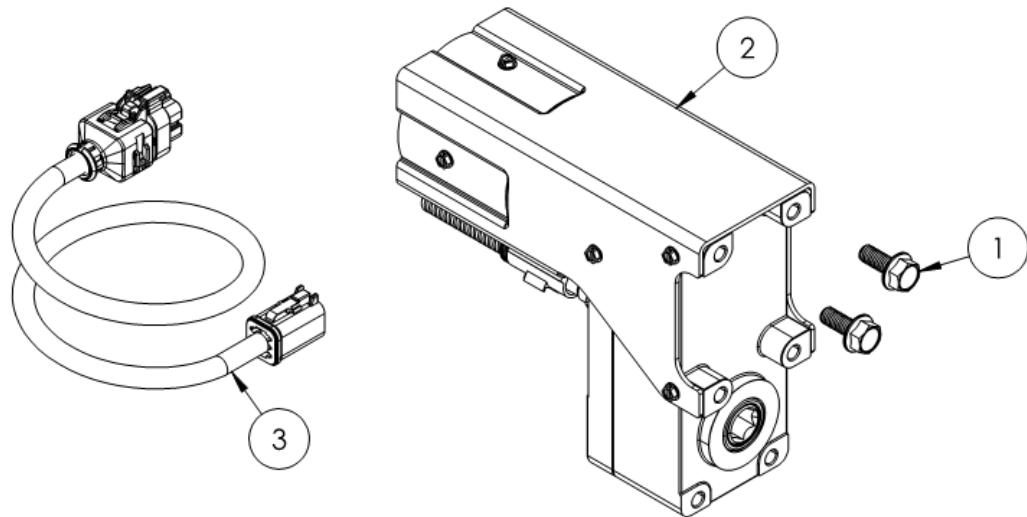


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	APPLY	TORQUE (FT-LBS)
1	BLT10015	SOCKET HEAD CAP SCREW	8	LB8150	12
2	BLT10052	FLANGE BOLT	8	LB8150	170
3	BLT10112	HEX HEAD BOLT	2	7649/242	
4	BLT10190	FLANGE BOLT	6	7649/242	
5	BLT10223	CARRIAGE BOLT	2		
6	NUT10065	FLANGE NUT	2		
7	PRT10395	INDICATOR GEAR	1		
8	PRT10399	INDICATOR RACK	1		
9	PRT10793	ADJUSTMENT DRIVE SHAFT	1		
10	SPL10167	LOCK COLLAR	2		
11	SPL10186	GEARBOX	2		
12	SPL10187	SOCKET 30mm	2		
13	WSH10038	FLAT WASHER	2		



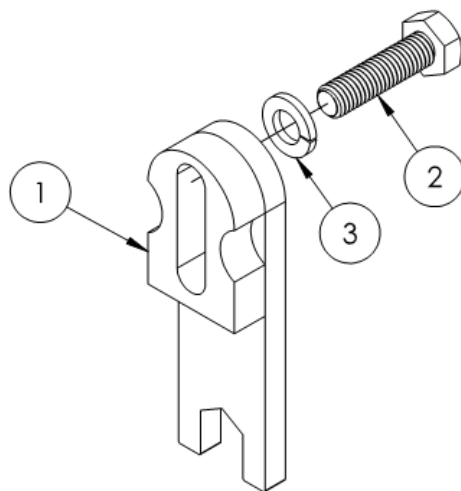
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DEC1001	DANGER : ROLLERS	1
2	DEC1002	WARNING	1
3	DEC1003	MADE IN AMERICA	1
4	DEC1050	DO NOT POWERWASH	1
5	DEC1066	SCHERER KP DECAL	1
6	DEC1107	INDICATOR DECAL	1
7	DEC1108	1300SI	1

ASM10201 - Remote Adjust



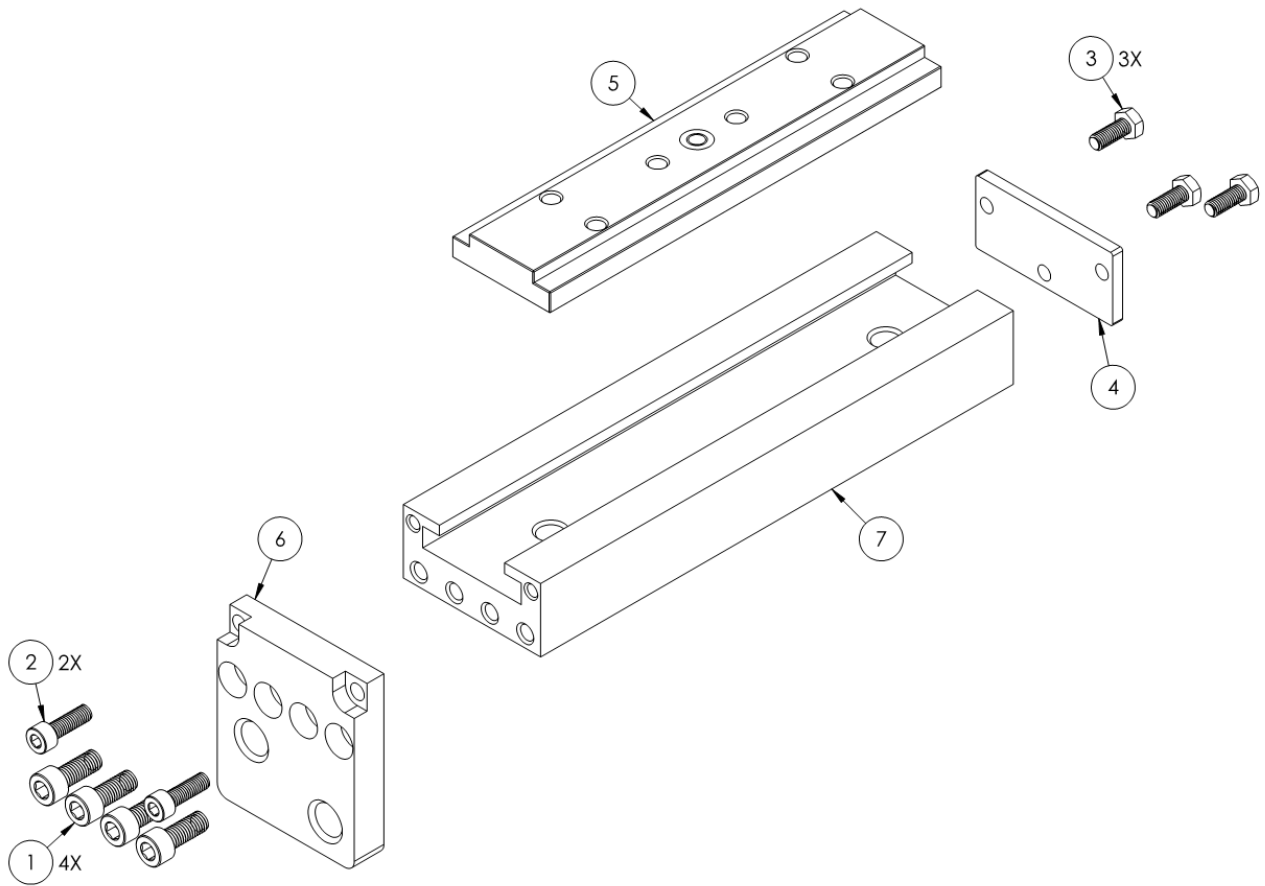
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BLT10190	FLANGE BOLT	2
2	SPL10150	AUTO ADJUST MOTOR	1
3	SPL10259	MOTOR CABLE	1

ASM10288 - Manual Adjustment



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10415	POSITIVE LOCK	1
2	BLT10193	HEX HEAD BOLT	1
3	WSH10002	LOCK WASHER	1

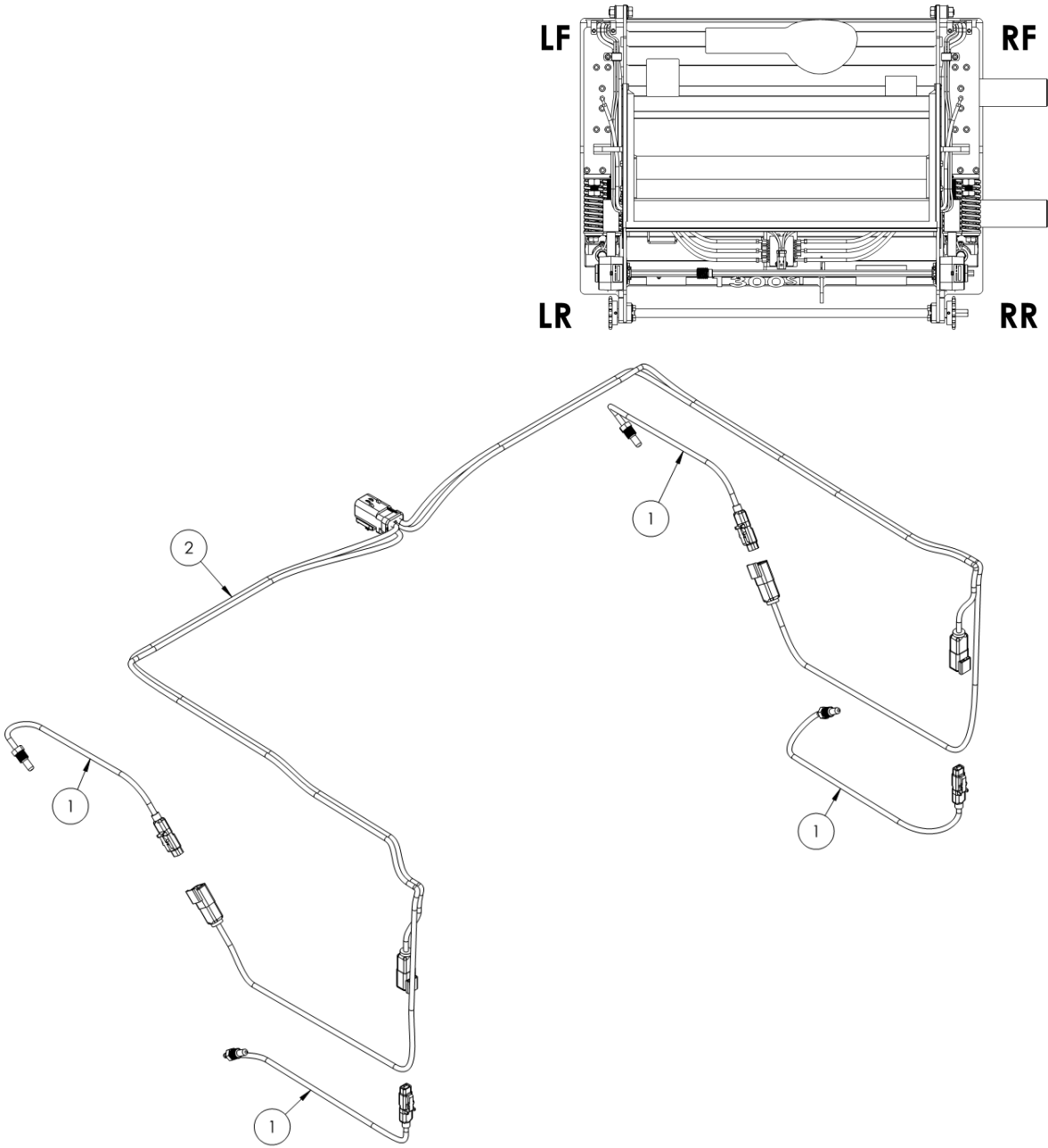
ASM10697 - Drive & Idle Slide



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BLT10010	SOCKET HEAD CAP SCREW	4
2	BLT10107	SOCKET HEAD CAP SCREW	2
3	BLT10154	HEX HEAD BOLT	3
4	PRT10344	SLIDE FRONT CAP	1
5	PRT10372	INNER SLIDE	1
6	PRT10455	REAR SLIDE CAP	1
7	PRT10759	OUTER SLIDE	1

Temperature Wiring Harness

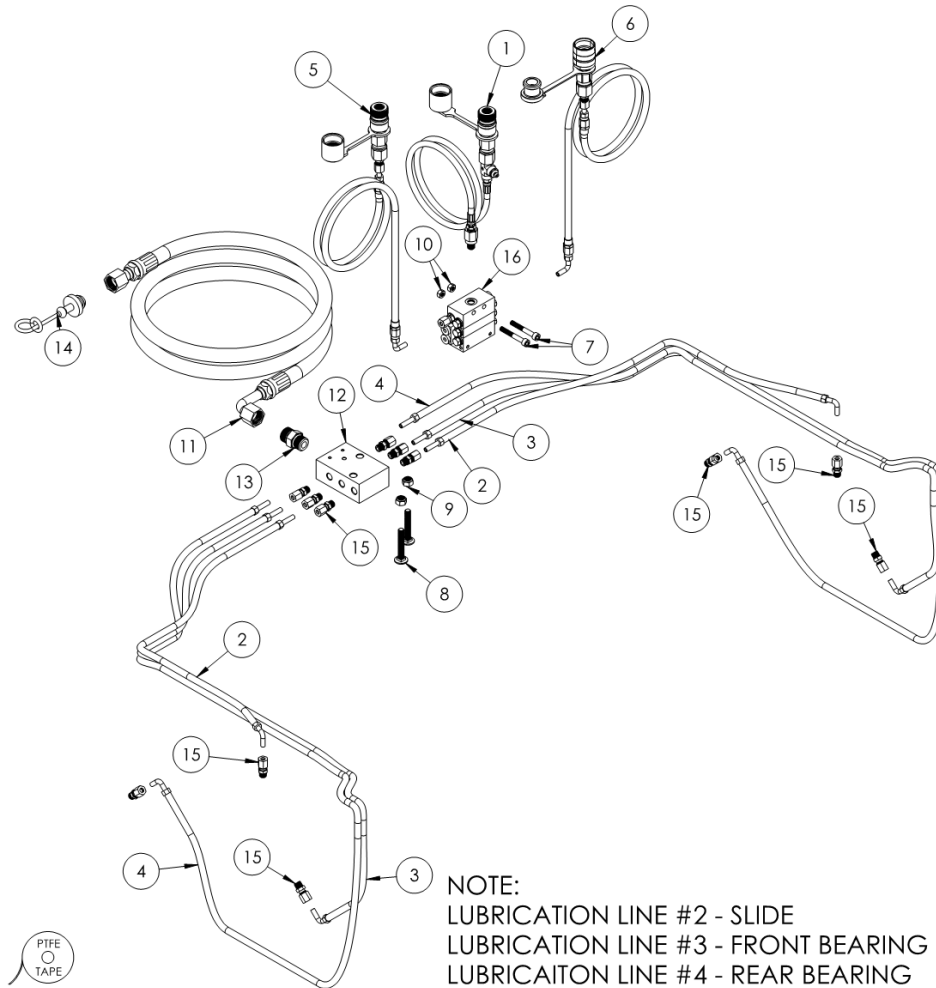
ASM10445



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PM22007	TEMPERATURE PROBE	4
2	SPL10263	SPLITTER CABLE	1

Air Lubrication Lines

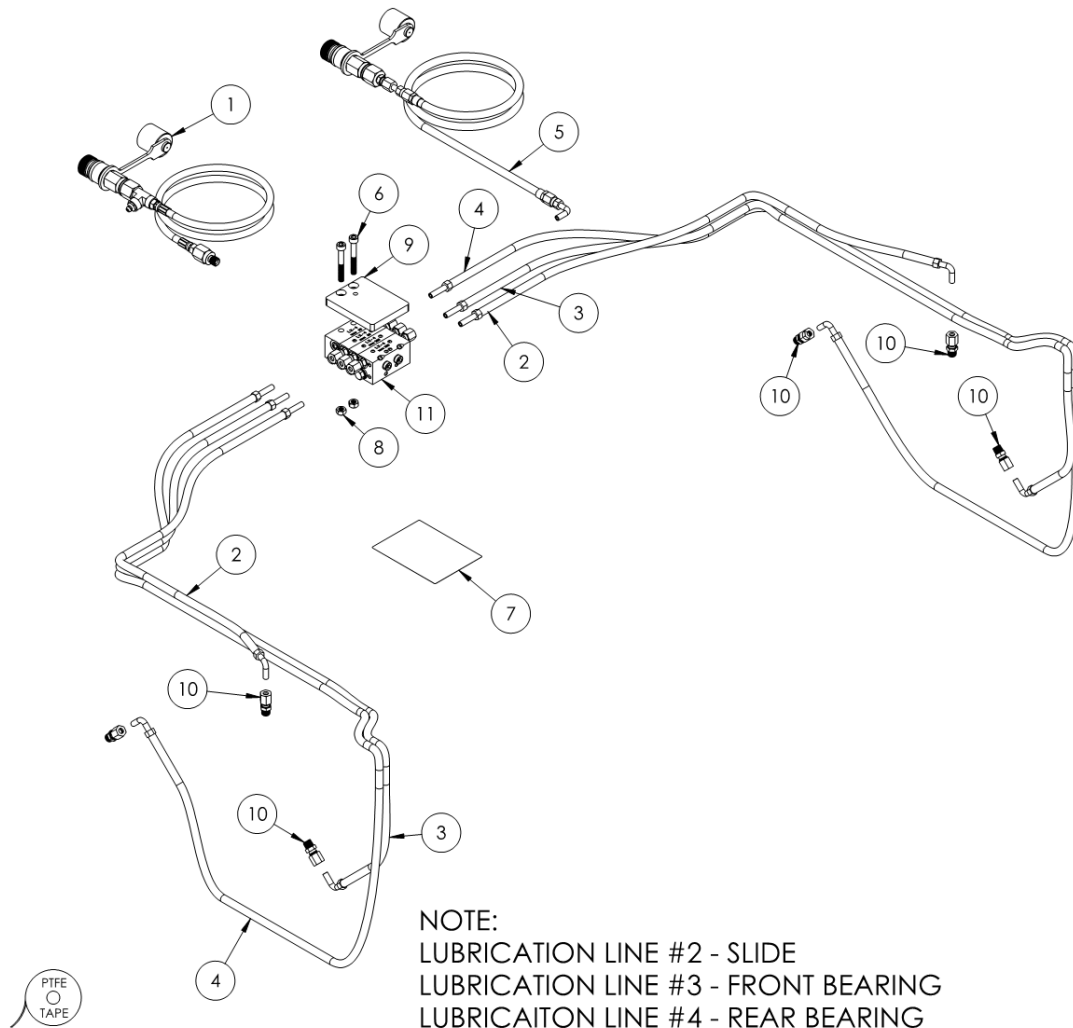
ASM10691



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	APPLY
1	ASM10179	GREASE LUBRICATION KIT	1	
2	ASM10677	LUBRICATION LINE	2	
3	ASM10678	LUBRICATION LINE	2	
4	ASM10679	LUBRICATION LINE	2	
5	ASM10698	GREASE PRESSURE RELIEF HOSE ASSEMBLY	1	
6	ASM10721	IDLE PULLEY GREASE HOSE ASSEMBLY	1	
7	BLT10141	SOCKET HEAD BOLT	2	
8	BLT10224	CARRIAGE BOLT	2	
9	NUT10009	LOCK NUT	2	
10	NUT10026	LOCK NUT	2	
11	OM2033	HOSE OIL MISTER TO PROCESSOR	1	
12	PRT10452	OIL MIST MANIFOLD	1	
13	SPL10012	STRAIGHT ADAPTER	1	
14	SPL10028	MALE CAP	1	
15	SPL10076	BEKA-MAX STRAIGHT COUPLING	12	PTFE
16	SPL10442	DISTRIBUTION MANIFOLD	1	

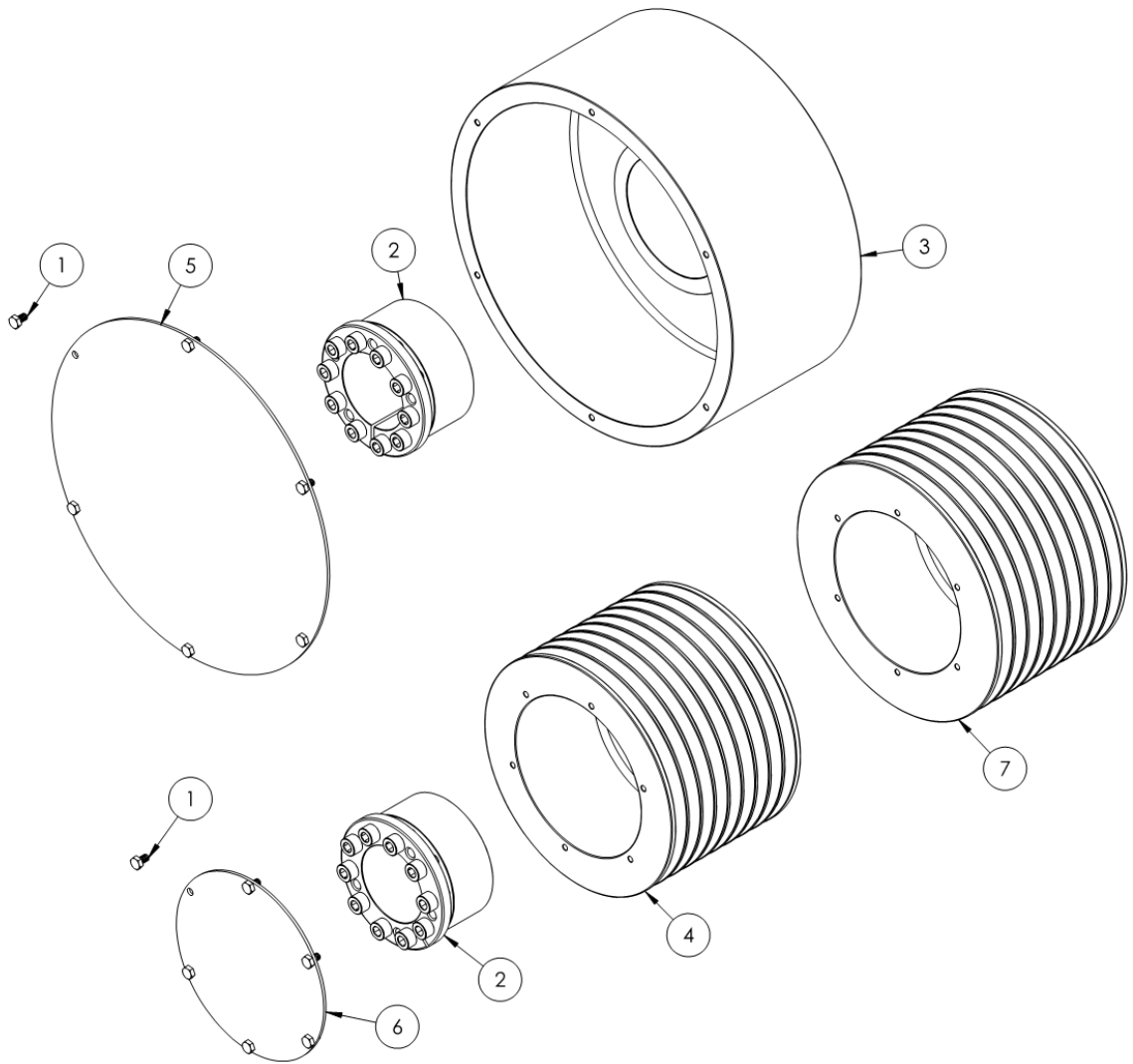
Grease Lubrication Lines

ASM10692



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	APPLY
1	ASM10179	GREASE LUBRICATION KIT	1	
2	ASM10677	LUBRICATION LINE	2	
3	ASM10678	LUBRICATION LINE	2	
4	ASM10679	LUBRICATION LINE	2	
5	ASM10698	GREASE PRESSURE RELIEF HOSE ASSEMBLY	1	
6	BLT10141	SOCKET HEAD BOLT	2	
7	DEC1102	GREASE DECAL	1	
8	NUT10026	LOCK NUT	2	
9	PRT10902	GREASE MANIFOLD SPLITTER MOUNT	1	
10	SPL10076	BEKA-MAX STRAIGHT COUPLING	6	PTFE
11	SPL10413	DISTRIBUTION MANIFOLD	1	

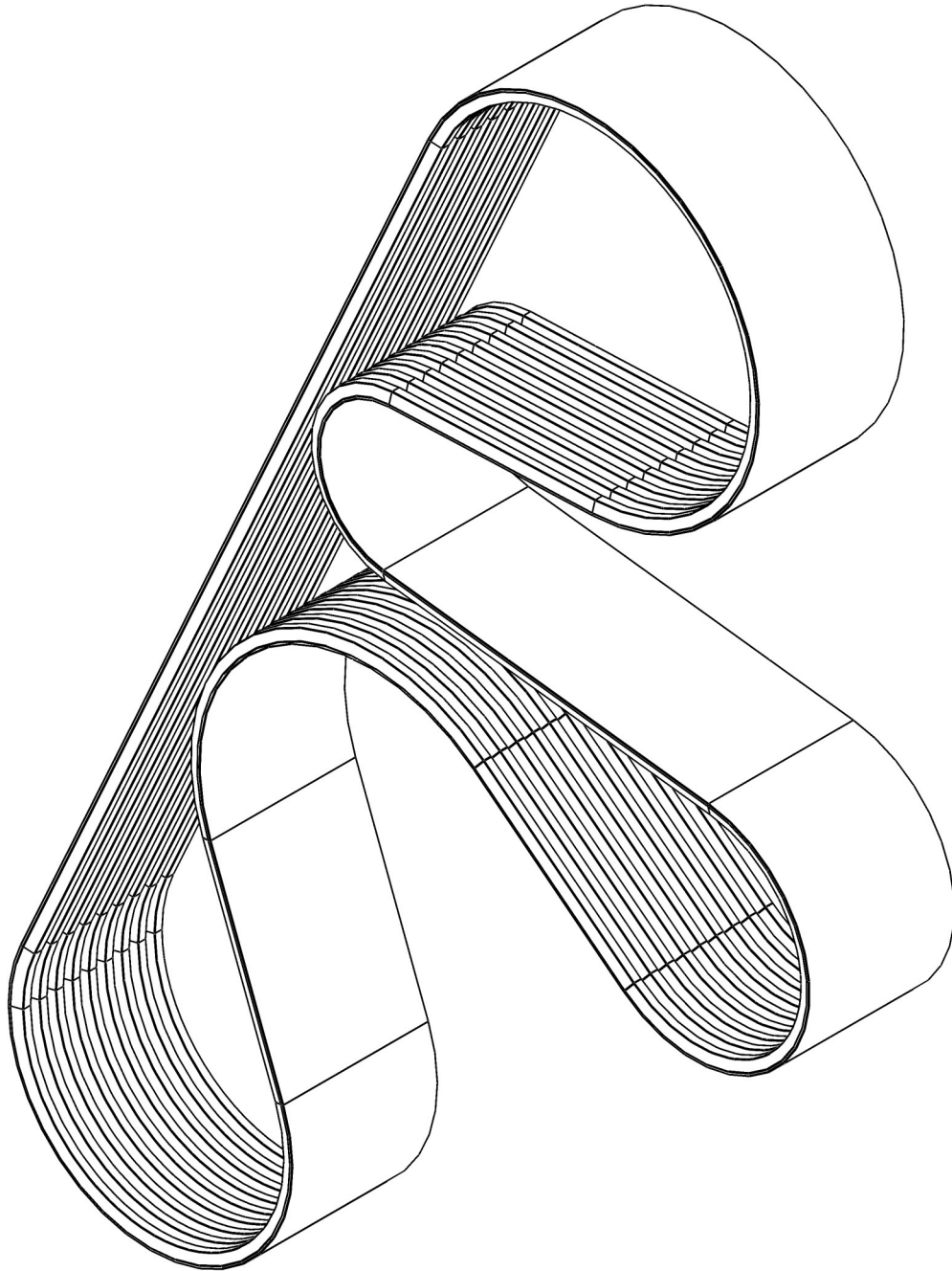
9 Groove Pulley Parts



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
BASE CONFIGURATION IS 50% DIFFERENTIAL			
1	BLT10112	HEX HEAD BOLT	12
2	HOR1016	ROLL TO SHAFT LOCKING HUB	2
3	PRT10801	9 GROOVE SMOOTH PULLEY (328mm)	1
4	PRT10802	9 GROOVE PULLEY (218mm)	1
5	PRT10803	SMOOTH PULLEY COVER (12-5/8")	1
6	PRT10804	DRIVE PULLEY COVER (6-3/4")	1
TO ATTAIN 40% DIFFERENTIAL REPLACE PRT10802 WITH PARTS LISTED BELOW			
7	PRT10873	9 GROOVE PULLEY (234mm)	1

Belt Part Number

The 1300SI uses SCHB1008 for both the 40% and 50% differential pulleys.



Complete Roll Options

SchererCut®

Part Number	Description
KPR10011-165-STC-C	165 STC ROLL ASSY COMPLETE
KPR10011-195-STC-C	195 STC ROLL ASSY COMPLETE
KPR10011-165-STC-G	165 STC GREASE ROLL ASSY COMPLETE
KPR10011-195-STC-G	195 STC GREASE ROLL ASSY COMPLETE

SpiraCut®

Part Number	Description
KPR10011-165-SST-C	165 SST ROLL ASSY COMPLETE
KPR10011-195-SST-C	195 SST ROLL ASSY COMPLETE
KPR10011-165-SST-G	165 SST GREASE ROLL ASSY COMPLETE
KPR10011-195-SST-G	195 SST GREASE ROLL ASSY COMPLETE

DurraCut®

Part Number	Description
KPR10011-WC-STC-C	WC ROLL ASSY COMPLETE
KPR10011-WC-SST-C	WC ROLL ASSY COMPLETE
KPR10011-WC-STC-G	WC GREASE ROLL ASSY COMPLETE
KPR10011-WC-SST-G	WC GREASE ROLL ASSY COMPLETE

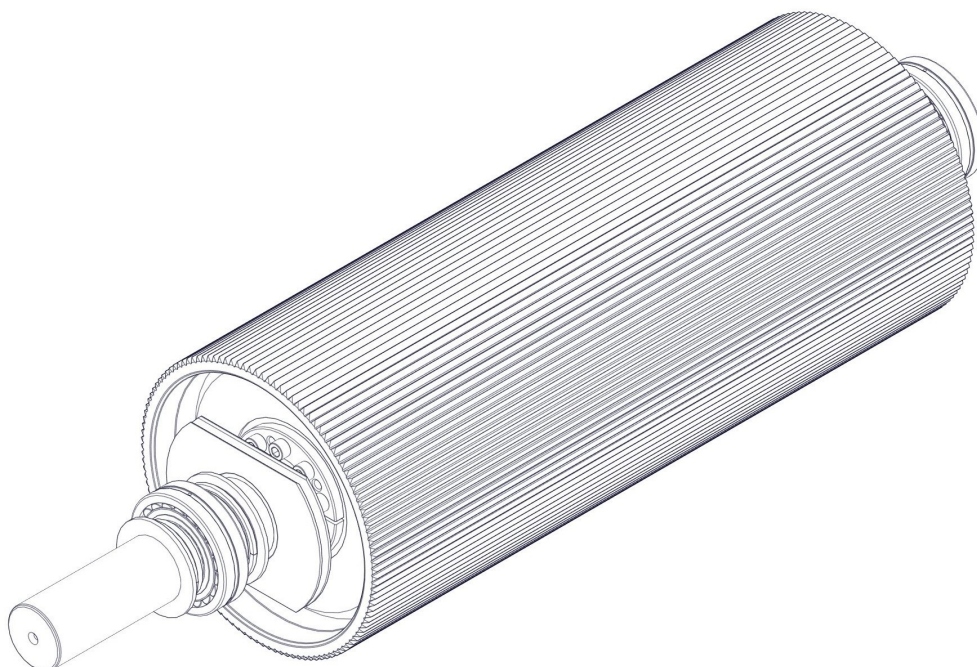


No Housing Roll Options

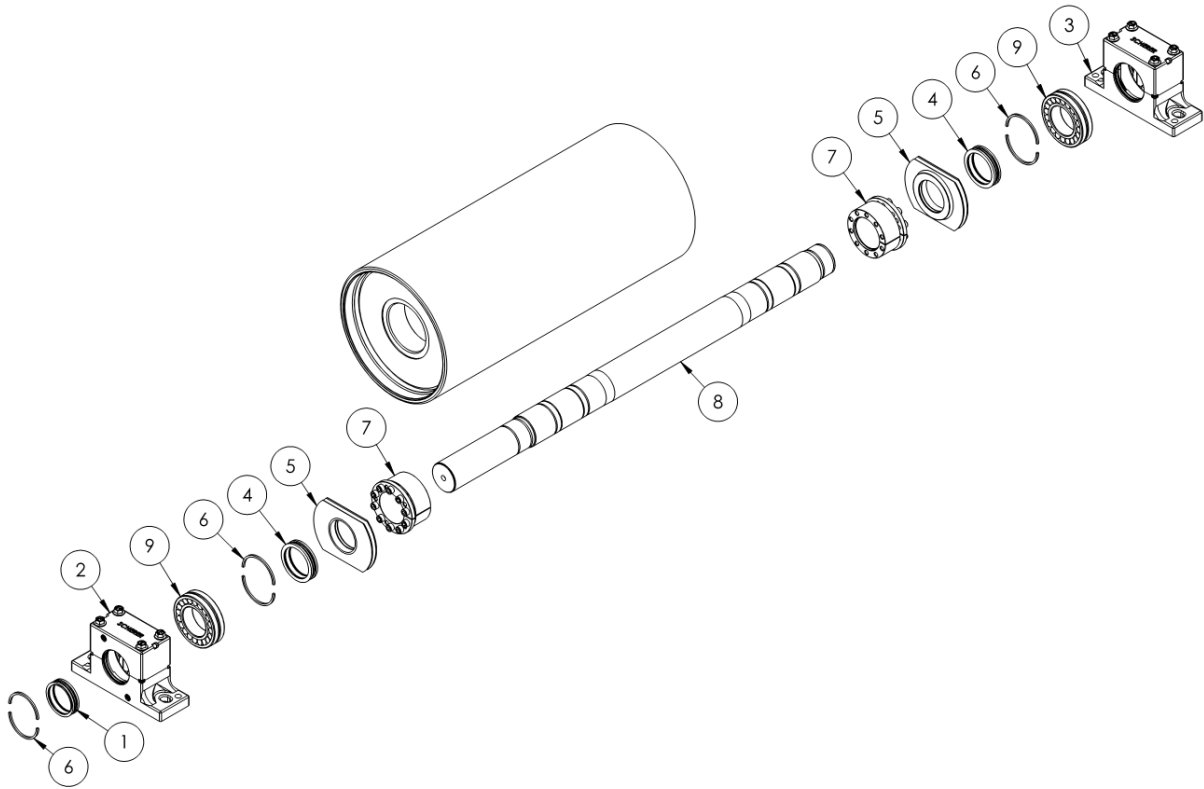
SchererCut®	
Part Number	Description
KPR10011-165-STC-C-NH	165 STC ROLL ASSY NO HSNGS
KPR10011-195-STC-C-NH	195 STC ROLL ASSY NO HSNGS

SpiraCut®	
Part Number	Description
KPR10011-165-SST-C-NH	165 SST ROLL ASSY NO HSNGS
KPR10011-195-SST-C-NH	195 SST ROLL ASSY NO HSNGS

DurraCut®	
Part Number	Description
KPR10011-WC-STC-NH	WC ROLL ASSY NO HSNGS
KPR10011-WC-SST-NH	WC ROLL ASSY NO HSNGS

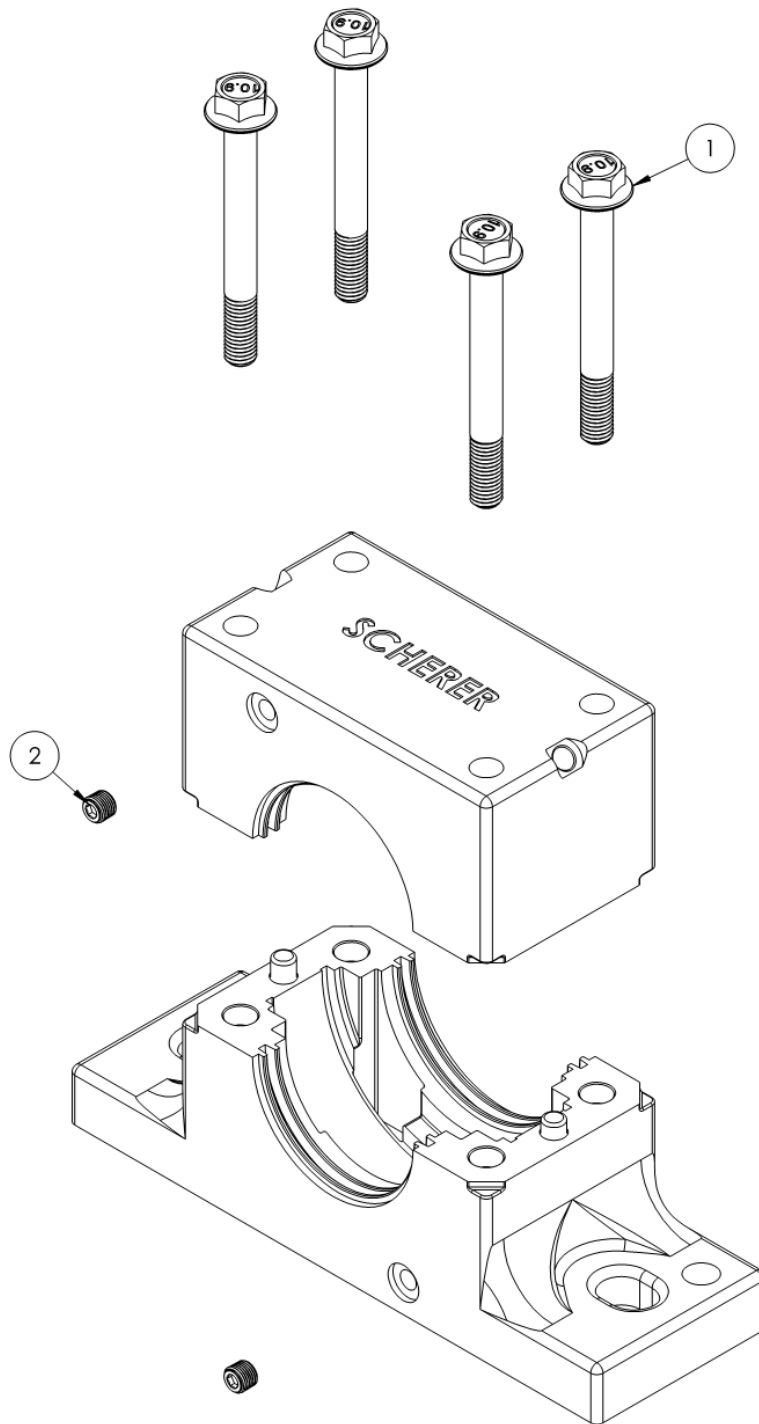


Roll Assembly Parts List



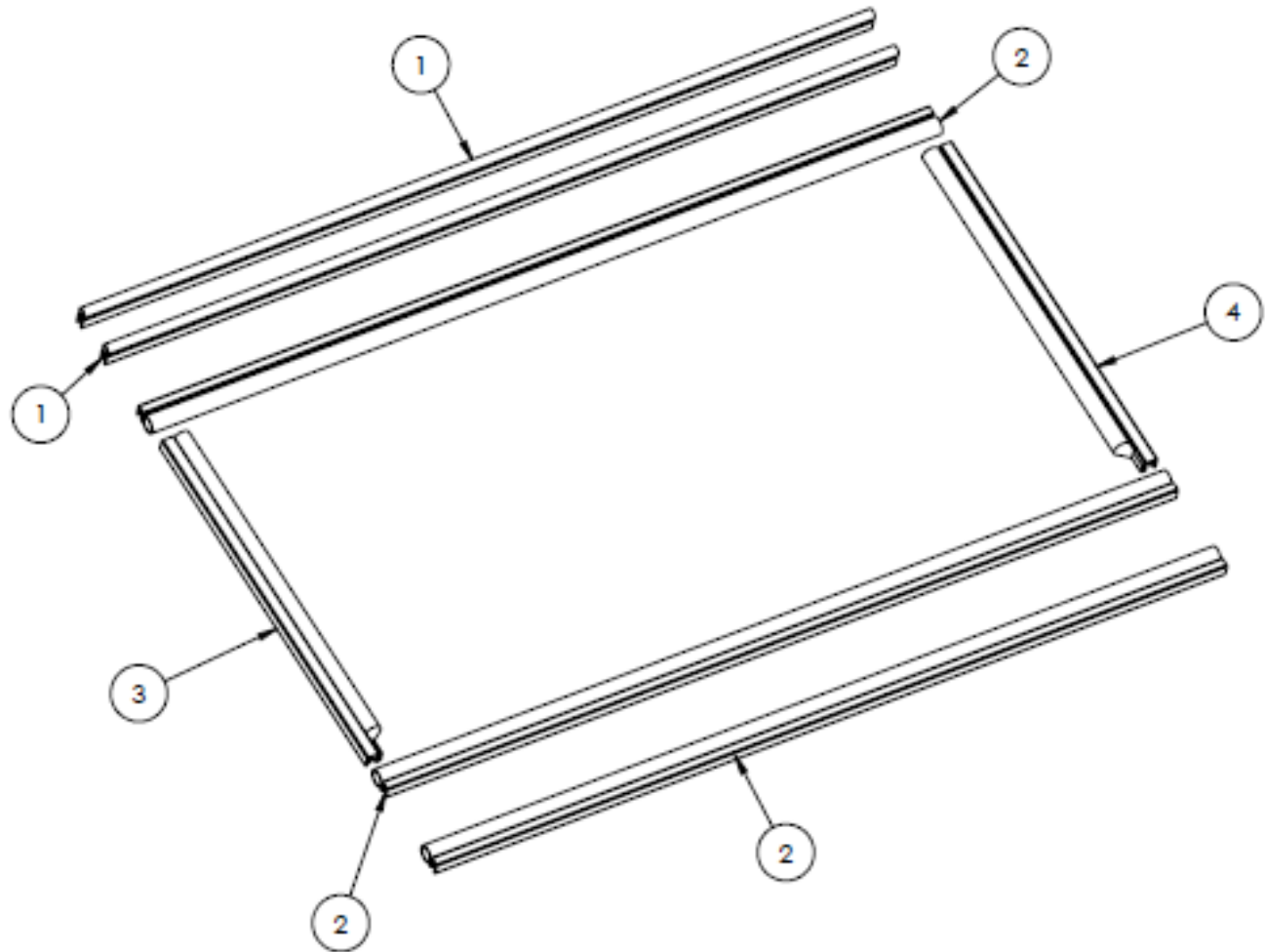
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10320	70MM INSIDE HSG SEAL ASSY	1
2	ASM10645	70MM DRIVE BEARING HOUSING ASSEMBLY	1
3	ASM10646	70MM IDLE BEARING HOUSING ASSEMBLY	1
4	ASM10655	75MM HOUSING SEAL ASSEMBLY	2
5	ASM10696	75mm SPOOL SEAL ASSEMBLY	2
6	HPR1009	FIBER OIL SEAL	6
7	LH20003	2-15/16" LOCKING HUB	2
8	PRT10746	1300SI SHAFT	1
9	SPL10377	70mm BEARING	2

Housing Hardware



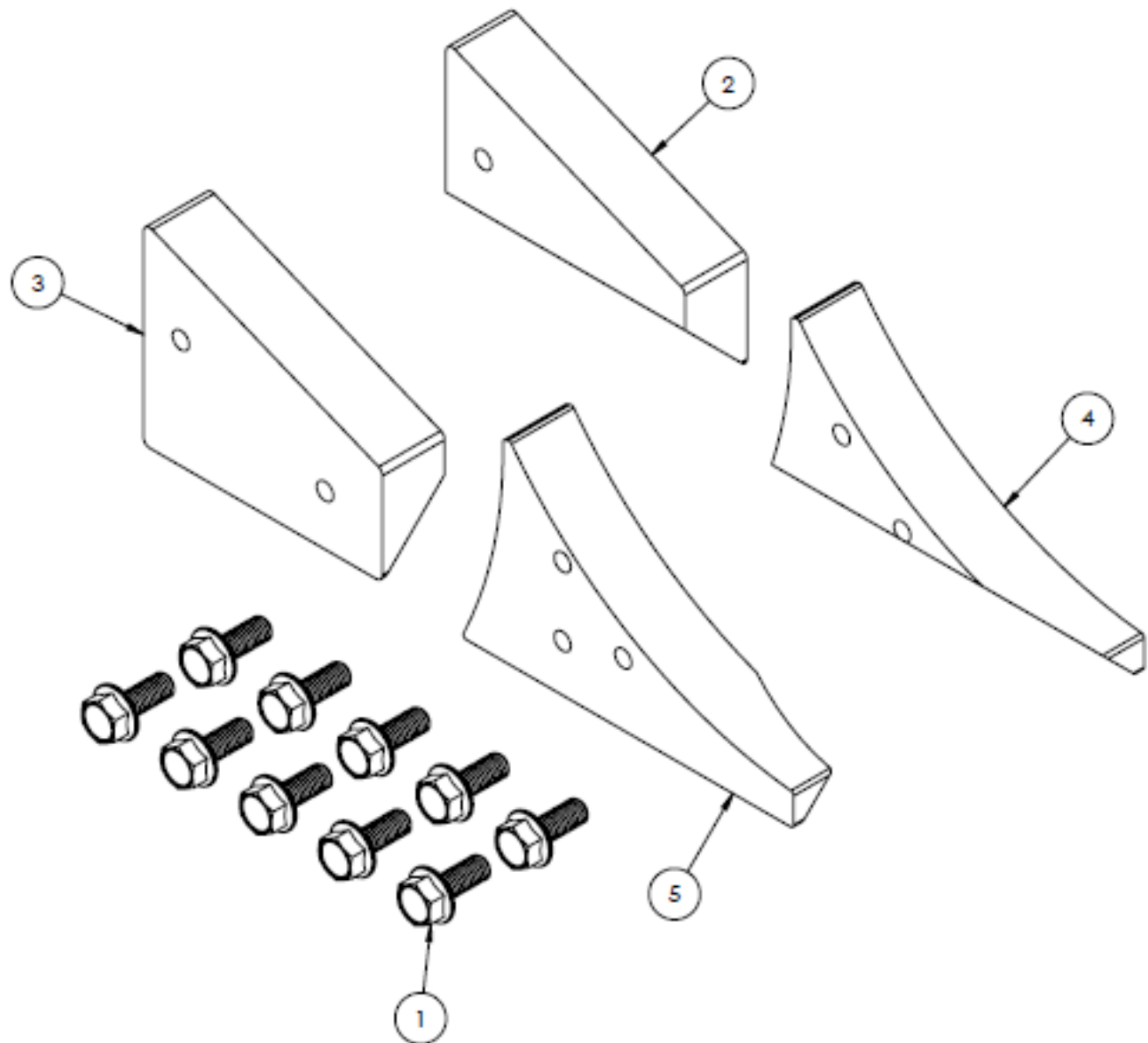
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BLT10289	FLANGE BOLT	4
2	SPL10001	PLUG	2

Bulb Seal Replacement Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PRT10787	FRAME SEAL	2
2	PRT10788	CONNECTION SEAL	3
3	PRT10789	DRIVE SIDE CONNECTION SEAL	1
4	PRT10983	IDLE SIDE CONNECTION SEAL	1

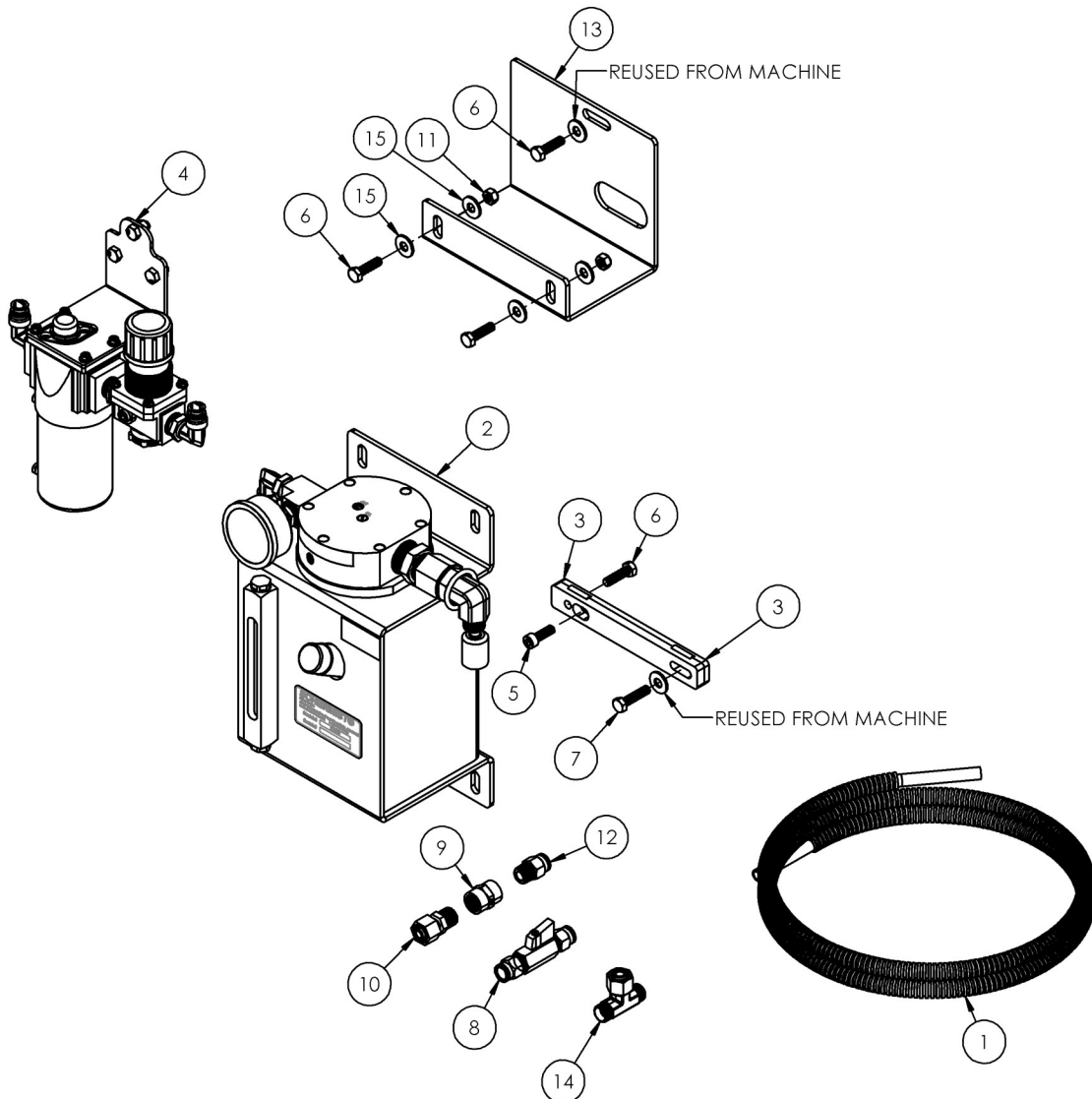
Cheek Plate Replacement Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BLT10190	FLANGE BOLT	10
2	PRT10757	TOP LEFT SIDE CHEEK PLATE	1
3	PRT10795	TOP RIGHT SIDE CHEEK PLATE	1
4	PRT10996	BOTTOM LEFT CHEEK PLATE	1
5	PRT10997	BOTTOM RIGHT CHEEK PLATE	1

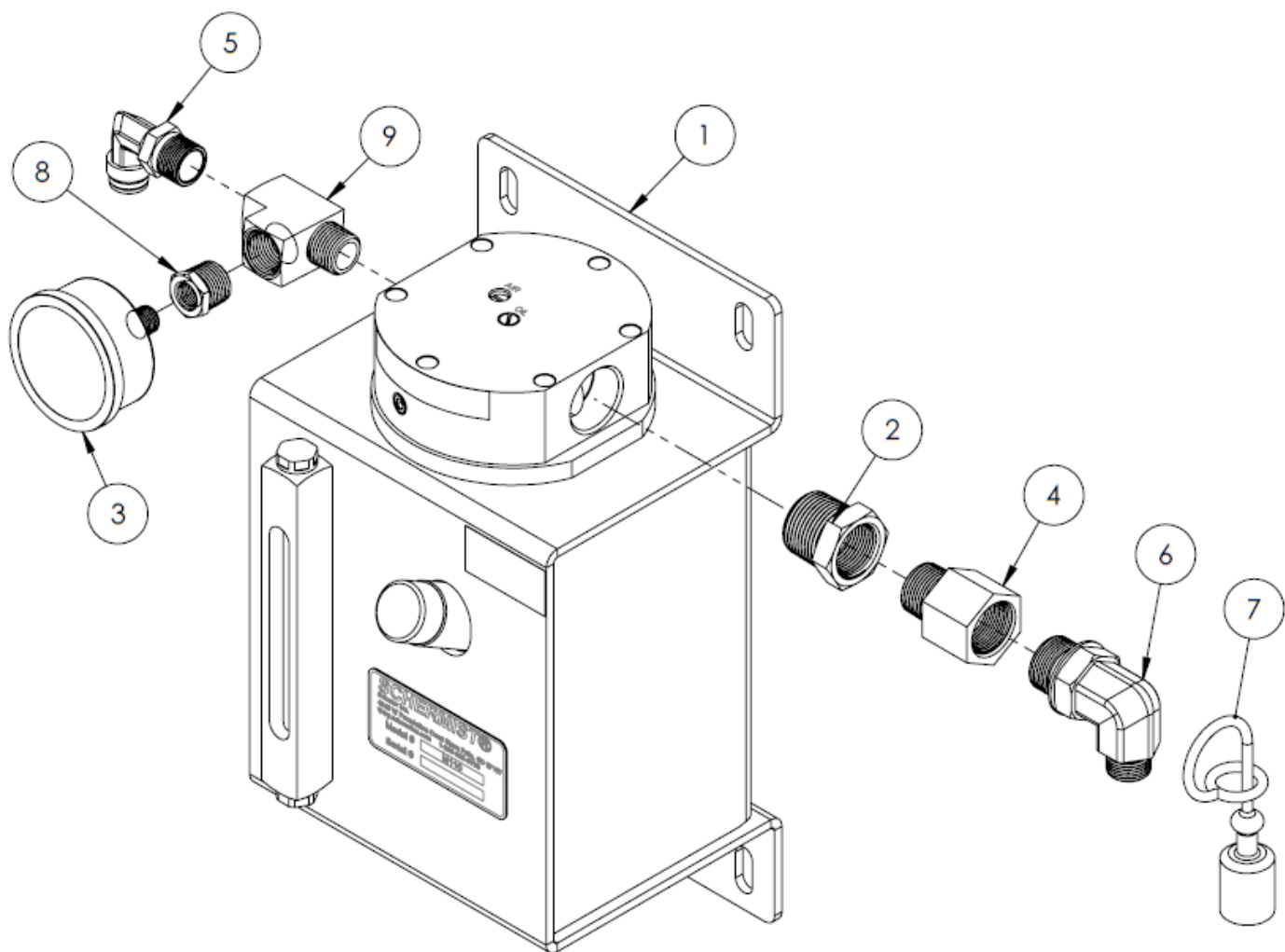
Schermist® Parts List - Air Lubrication

ASM10730



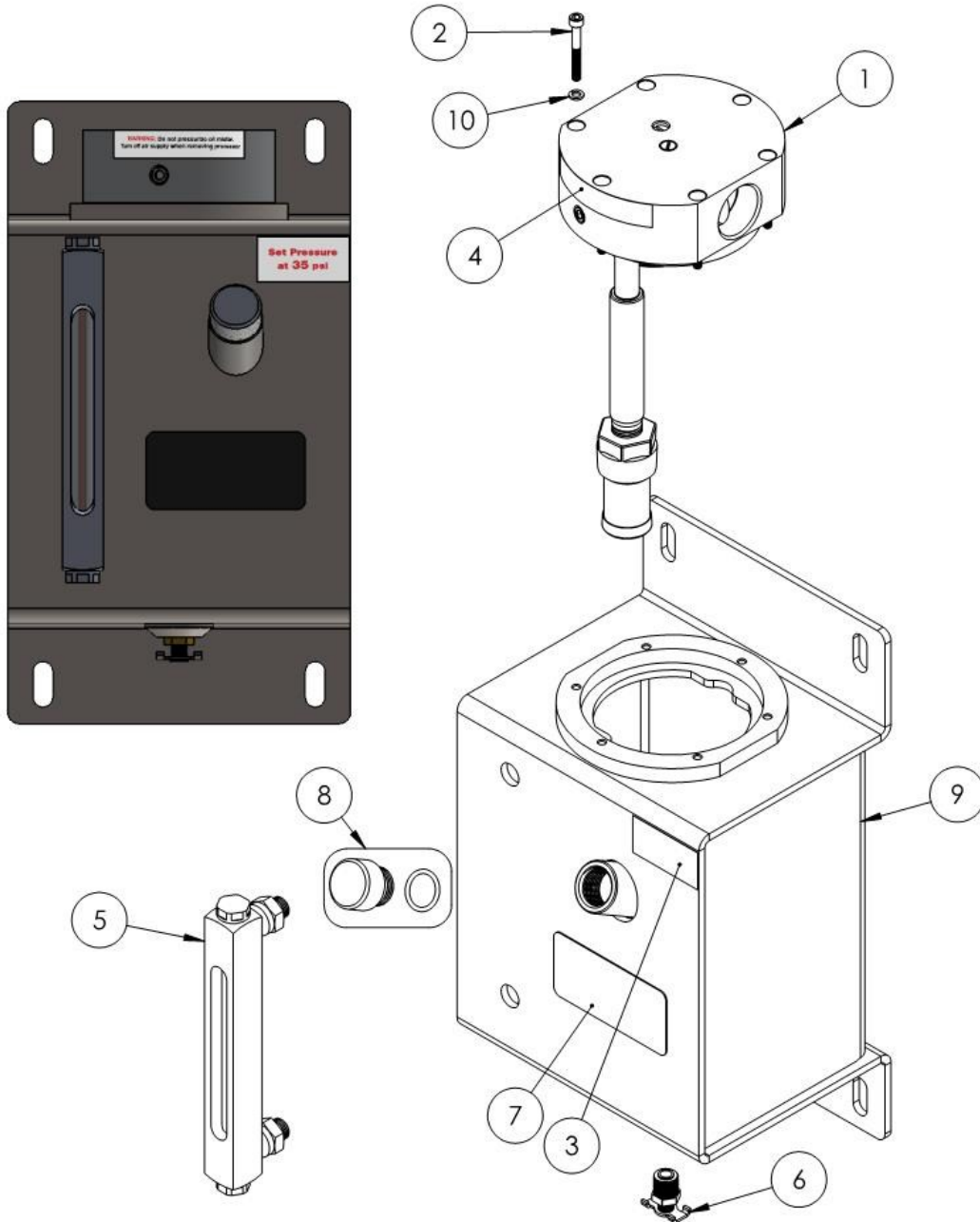
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10029	12mm HOSE AND LOOM	1
2	ASM10733	OIL TANK ASSEMBLY	1
3	ASM10734	1000 SERIES OIL TANK BOTTOM MOUNTING BRACKET	1
4	ASM10735	FILTER ASSEMBLY	1
5	BLT10015	SOCKET HEAD CAP SCREW	1
6	BLT10193	HEX HEAD BOLT	4
7	BLT10259	HEX HEAD BOLT	1
8	HPD1359	12MM VALVE ASSEMBLY	1
9	HPD1422	FEMALE PIPE UNION	1
10	HPD1423	CONVERSION FITTING	1
11	NUT10009	LOCK NUT	3
12	OM1025	PUSHLOCK FITTING	1
13	PRT11007	CLAAS 1000 SERIES OILER MOUNT	1
14	SPL10111	BRANCH TEE	1
15	WSH10005	FLAT WASHER	4

ASM10733



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10086	SCHERMIST RETRO	1
2	OM1003	STRAIGHT ADAPTER	1
3	OM1015	PRESSURE GUAGE	1
4	OM1030	STRAIGHT ADAPTER	1
5	OM1033	90° SWIVEL FITTING	1
6	OM1034	90 DEGREE ADAPTER FITTING	1
7	SPL10027	FEMALE CAP	1
8	SPL10457	REDUCER	1
9	SPL10458	TEE FITTING	1

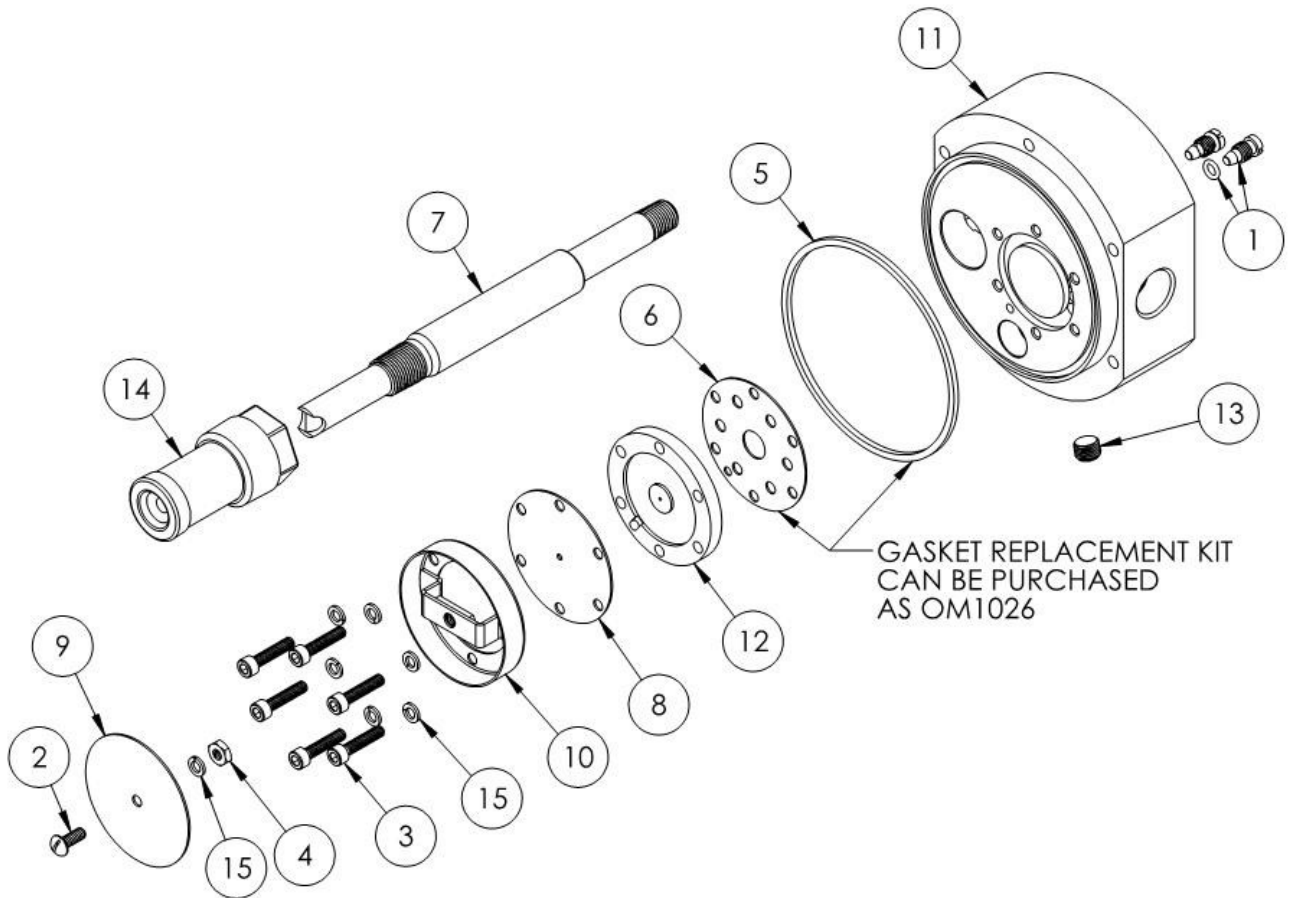
ASM10086



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10061	SCHERMIST HEAD ASSEMBLY	1
2	BLT10140	SOCKET HEAD SCREW	6
3	DEC1004	35PSI SET PRESSURE	1
4	DEC1007	WARNING : DO NOT OVER PRESSURIZE	1
5	OM1012	SIGHT GLASS	1
6	OM1039	STOP COCK DRAIN	1
7	OM1121	OIL TANK SERIAL PLATE	1
8	OM2026	CAP ASSEMBLY	1
9	OM5016	OIL RESEVOIR WLDMNT	1
10	WSH10006	LOCK WASHER	6

Schermist® Head Parts List

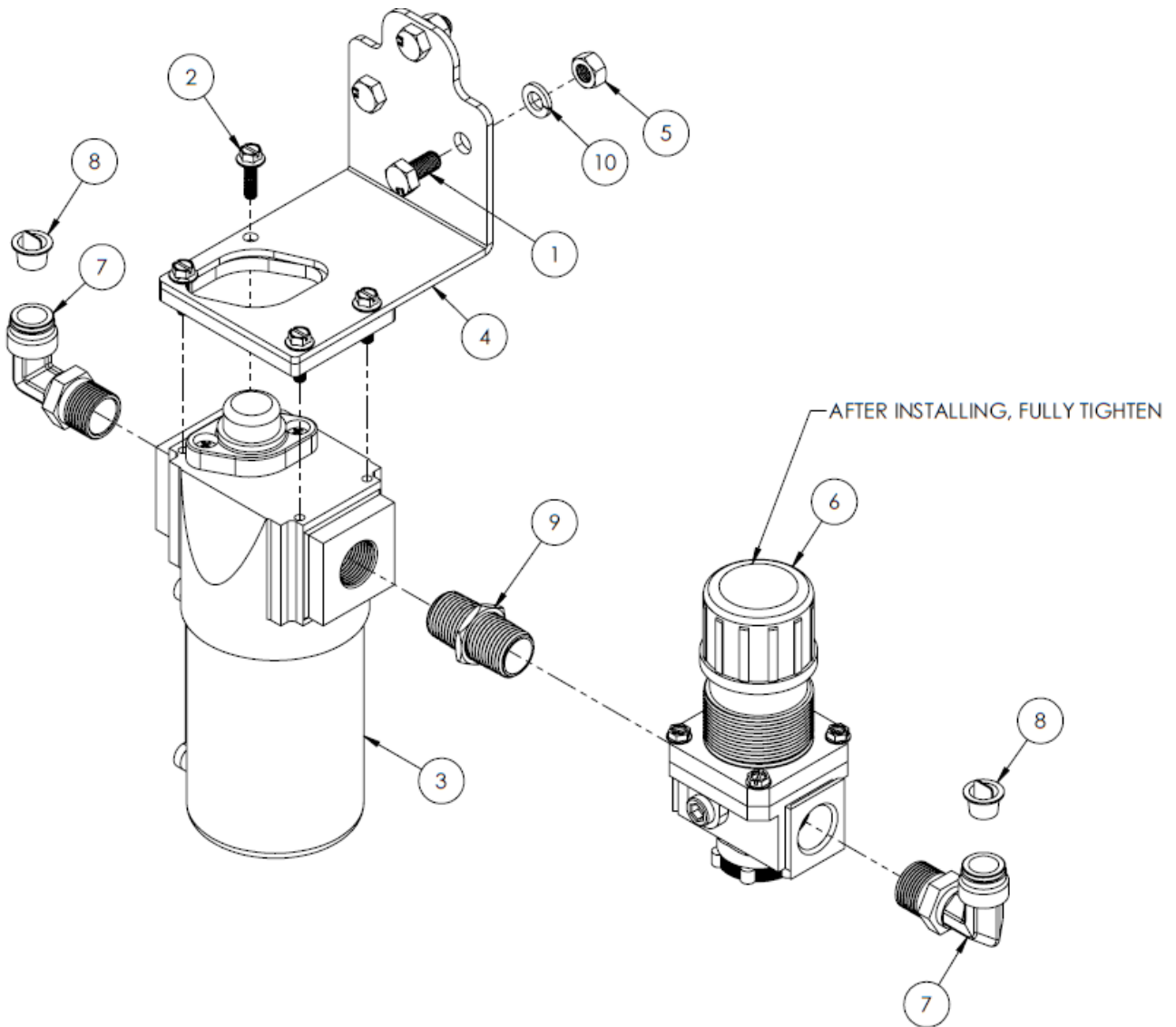
ASM10061



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	ASM10075	AIR SCREW ASSEMBLY	2
2	BLT10044	MACHINE SCREW	1
3	BLT10071	SOCKET HEAD CAP SCREW	6
4	NUT10011	MACHINE HEX NUT	1
5	OM1026.2	HEAD GASKET	1
6	OM1109	VENTURI GASKET	1
7	OM1114	STRAINER MNTG TUBE	1
8	OM2003	MISTER OIL PLATE	1
9	OM2008	IMPINGEMENT PLATE	1
10	OM2009	BAFFLE ASSEMBLY	1
11	OM2027	MISTER HEAD	1
12	PRT10262	VORTEX PLATE	1
13	R1235	PIPE PLUG	1
14	SPL10045	STRAINER	1
15	WSH10006	LOCK WASHER	7

FILTER ASSEMBLY

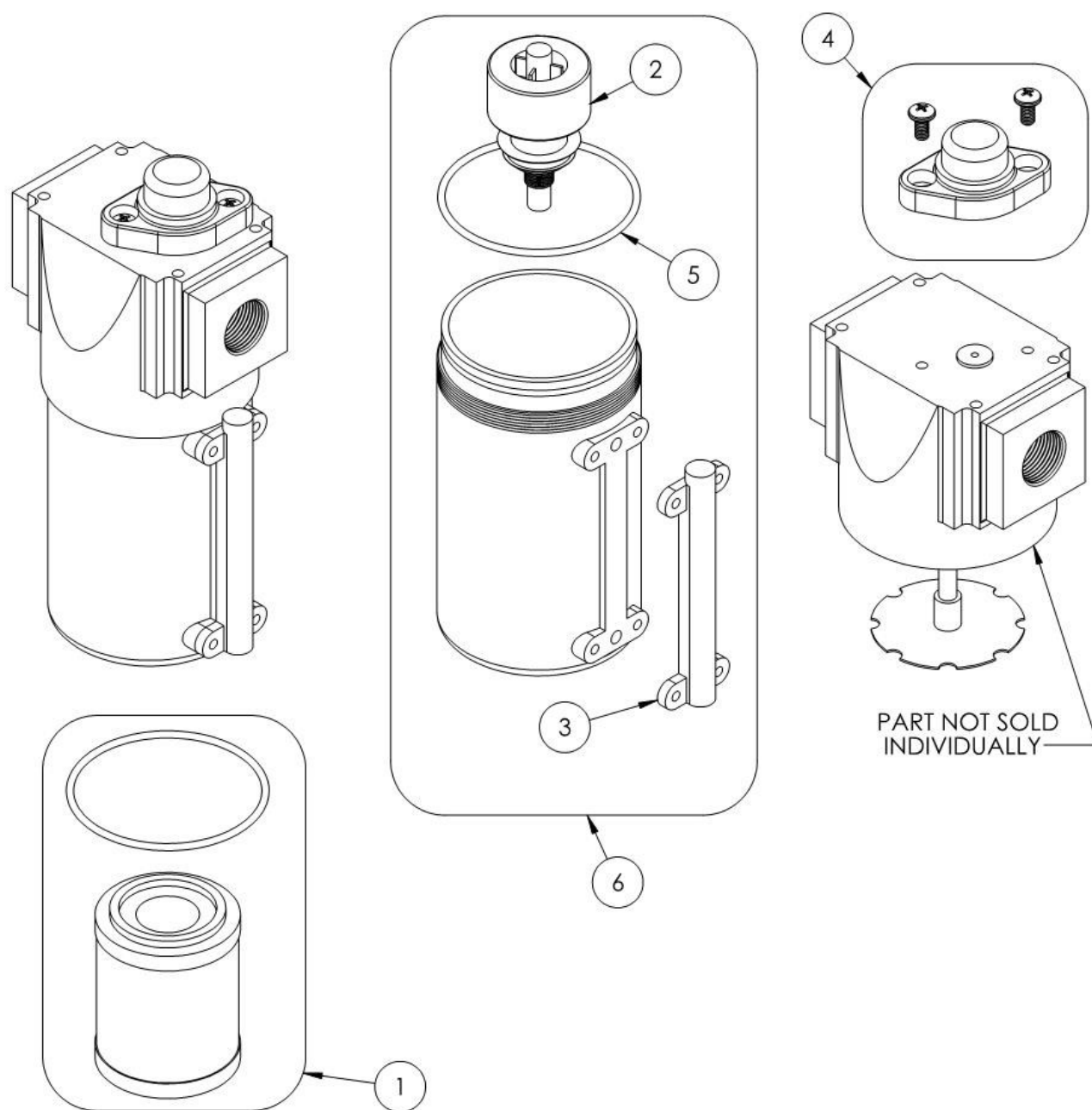
ASM10735



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	BLT10042	HEX HEAD BOLT	3
2	BLT10047	FLAT HEAD SCREW	4
3	HPD1411	FILTER	1
4	HPD1414	FILTER MOUNTING BRACKET	1
5	NUT10010	HEX NUT	3
6	OM1032	REGULATOR	1
7	OM1033	90° SWIVEL FITTING	2
8	SPL10161	FITTING PLUG	2
9	SPL10459	MALE UNION	1
10	WSH10002	LOCK WASHER	3

REPLACEMENT FILTER

HPD1411

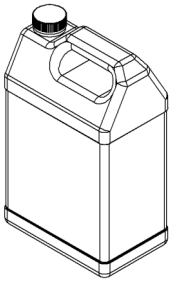


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	HPD1411.1	REPLACEMENT FILTER	1
2	HPD1411.4	FLOAT	1
3	HPD1411.5	COALESCING SIGHT GLASS KIT	1
4	HPD1411.6	INDICATOR POP-UP	1
5	HPD1411.7	BOWL O-RING	1
6	HPD1411.8	FILTER BOWL	1

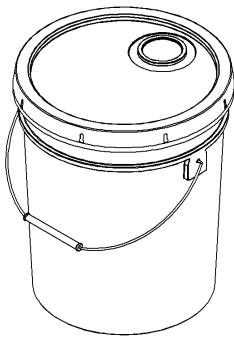
Scherer Equipped Decal



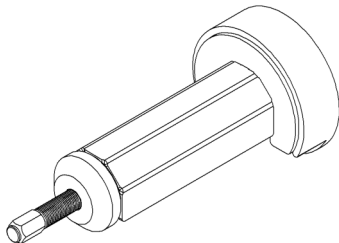
Accessory Parts



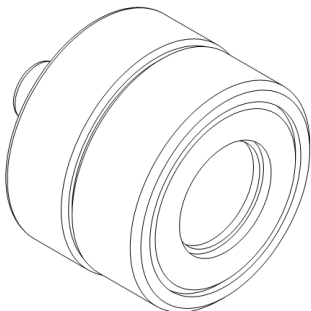
A0006 - 1 Gallon KP Oil



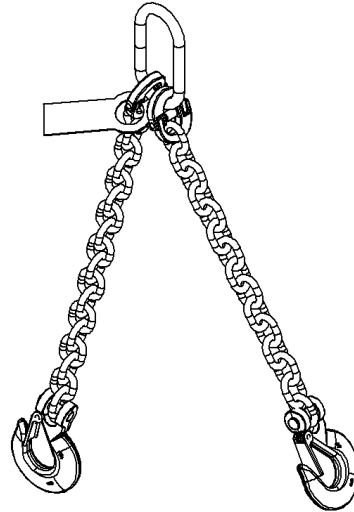
A006.5 - 5 Gallon KP Oil



A5002 - 70mm Bearing Puller



ASM10501 - Bearing Puller Tip



A0003 - KP Lifting Chain



A0011 - Laser Alignment Tool



A0021 - Bearing Heater

Important Torque Specifications

Part	Torque Ft-lbs	Torque Nm	Apply
Apply Anti-Seize			
BLT10015 (Bearing Housing Shear Bolt)	12	16	Anti-Seize
BLT10016 (Idler Bearing Mounting Bolt)	121	164	Anti-Seize
BLT10052 (Bearing Housing Mounting Bolt)	173	235	Anti-Seize
BLT10306 (Spring Rod Bolt)	173	235	Anti-Seize
JDBM1108 (Slide Stop Bolt)	N/A	N/A	Anti-Seize
PRT10995 (Adjustment Bolt)	N/A	N/A	Anti-Seize
Apply Loctite-271			
BLT10107 (Slide Bearing Cap Bolt)	24	33	Loctite-271
BLT10110 (Slide Bearing Cap Bolt)	47	64	Loctite-271
PRT10792 (Spring Rod)	330	447	Loctite 271/ SF 7649
No Application			
BLT100289 (Bearing Housing Bolt)	65	88	N/A
BLT10157 (Inner Slide Mounting Bolt)	65	88	N/A
BLT10071 (Baffle Cup Bolt)	3	4	N/A
BLT10140 (Schermist Head Bolt)	3	4	N/A
NUT10049 (Latch Block & Hinge Nut)	173	235	N/A

Maintenance Intervals

1) After your Scherer Processor is installed

- Set your roll gap (See “Roll Gap Adjustment” section)
- Pass product through the machine, at least 5 loads under full power.
- Adjust rolls to your processing needs; however, **The Scherer Processor is not intended to be run against the roll stops so adjust accordingly.**
- Check adjustments 5 to 10 hours later to ensure adjustments are holding at your desired position. Check pulley alignment and make sure locking hubs are firmly in place.
- If equipped with air tension kit, check air tension on drive belt and set air pressure according to specific model.

7-groove drive: 90 to 95psi

2) 50 Hours

- Grease adjustment bolt zerks on processor (2 pumps)
- Visually inspect for damage to springs, bolts, shafts, pulleys, wiring, oil lines, etc.

3) 250 Hours

- Visually inspect for damage to springs, bolts, shafts, pulleys, wiring, oil lines, etc.
- Roll back processor and visually inspect rolls, roll gap, and the overall condition of the processor.
- If roll gap is wider at one end, there is also a possibility that the rolls just need to be adjusted.
- If equipped with Scherer idle components, grease lower idle pulley on drive system, and tension pulley (2 pumps each)

4) End of Season (VERY IMPORTANT)

- End of season maintenance will help reduce bearing failures and greatly reduce down time while harvesting.
- Use air to clean off the Processor.

- If you decide to power wash the processor, **immediately dry the processor and open it to expose bearing housings and rolls after power washing.** There is a good possibility that water penetrated the seals of the bearing and bearing damage would be imminent. After power washing the processor, you can prevent bearing damage by immediately servicing the processor and following the next few steps.
- Remove the tops of the bearing housings with a soft mallet and inspect the condition of the oil and bearing. Be very careful with the mating surfaces of the castings since they are machined surfaces and keep the top half with the bottom half since they are machined as a mating pair and are numbered accordingly.
- If there is no contamination, clean bearing housings and replace the felt seals (HPR1009). (See “End of Year Roll Maintenance” section)
- If contamination is present, the bearing casting needs to be removed and cleaned thoroughly. The oil line and the temp sender should be removed in order to clean the casting. New felt can then be installed. The bearing may also need to be replaced if there is a substantial amount of contamination in the bearing casting. An inspection of the bearing rollers may also help determine if the bearing needs to be replaced.
- Make sure all bearings get fresh Scherer KP oil after they have been inspected or changed. See section “End of Year Roll Maintenance”.
- Inspect spool seal for wear.
- Rolls should be covered with a rust inhibitor to prevent corrosion. Corrosion on rolls may cause rolls to be out of tolerance, leading to vibration.

Coalescing Filter / Schermist®

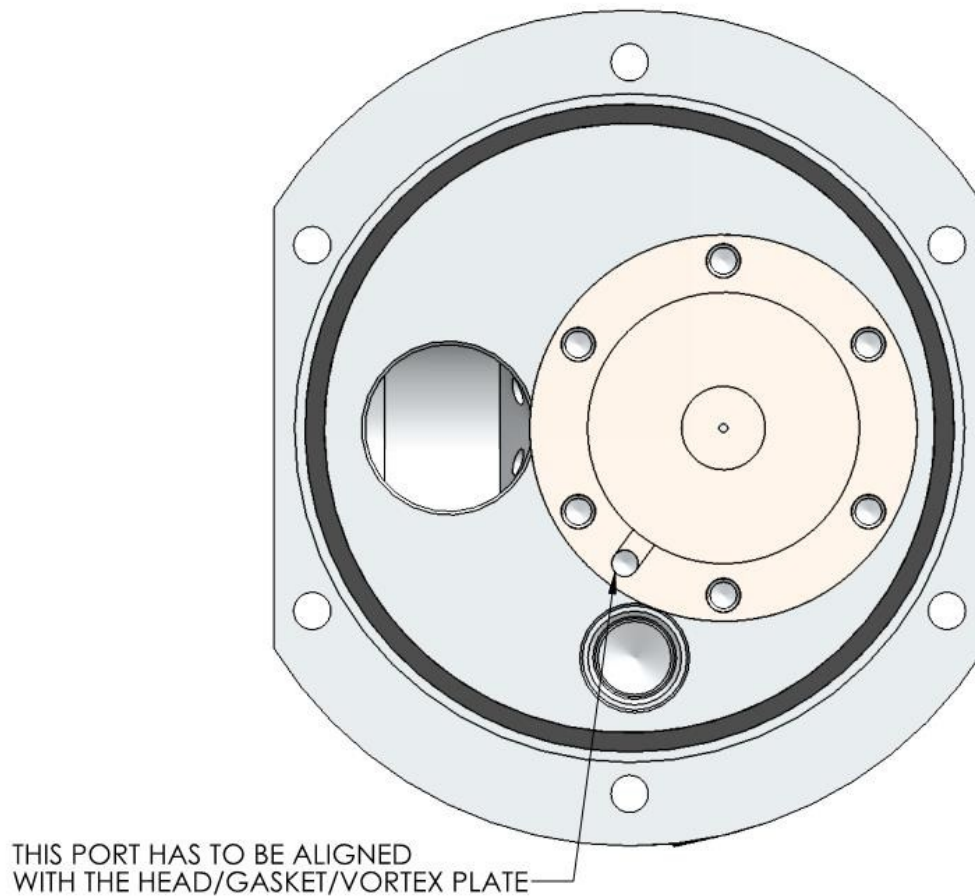
Inspect and/or replace filter element (HPD1411.1) after each season. (See Part Number HPD1411 Parts List section).

Replace Schermist® head gaskets every season (OM1026 — See Part Schermist® Head Rebuild section).

Recommended End of Year Parts Replacements

HPD1411.1	1X	Coalescing Filter & O-ring Kit
HPR1009	12X	Bearing Felt Seals
OM1026	1X	Schermist® Gasket Kit
ASM10746	1X	Cheek Plate Replacement Kit
ASM10747	1X	Bulb Seal Replacement Kit

Schermist® Head Rebuild



Cleaning Instruction:

1. After the oil tank head assembly has been removed from the oil tank reservoir, disassemble the parts as shown.
2. Clean all parts in a safe, clean solvent. Air dry after cleaning.
3. **CRITICAL ASSEMBLY FEATURE** Reassemble the parts as shown above. The oil port hole must align through all 3 components: Head / Venturi Gasket / Vortex Plate.
4. Reassemble head and torque the 6 screws to 3 Ft-lbs.
5. Install head gasket when installing the Schermist® head onto the oil reservoir.
6. If head is disassembled then venturi and head gasket have to be replaced. This kit can be purchased as OM1026

Roll Change Instructions

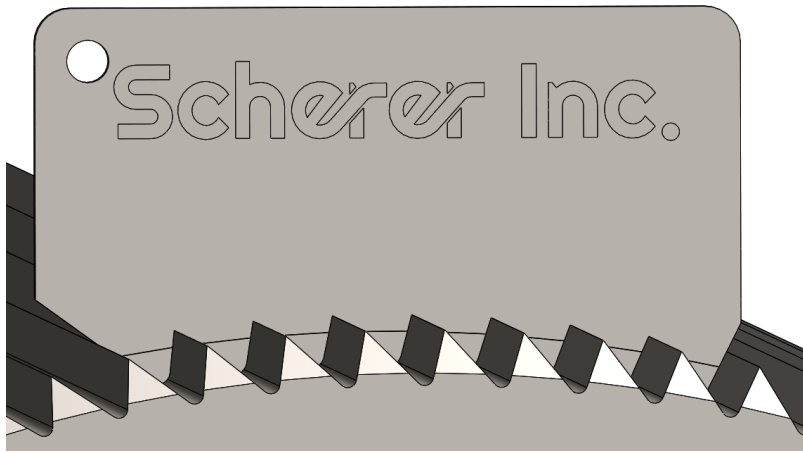
1. Remove processor from the forage harvester. An air wand will also help keep things clean and free from debris.
2. Take a measurement from the frame to the pulley on the roll to be replaced so you know where to place the pulley on the new roll since the pulley alignment is critical.
3. Clean the bolt heads of the locking hub and remove the pulley from the roll that needs to be replaced.
4. Open KP as per instructions on page 76.
5. Disconnect and remove the temp sensors and the oil line fittings from the bearing housings of the roll to be replaced.
6. Remove bearing housing bolts (BLT10052)
7. Install new roll using bearing housing shear bolts (BLT10015 apply anti-seize) torque - 12 ft-lbs. (16 Nm) to align the bearing housings. The drive side bearing housing will be locked in place, so align the drive side bearing first. The idle side bearing will slide within the bearing housings so the idle side bearing housing will be able to be slid into place and align with the bolt holes after the drive side is in place.
8. Install the bearing housing bolts (BLT10052 apply anti-seize) torque - 160 ft-lbs. (217 Nm).
9. Close the processor. Reverse steps from page 76. Watch oil lines and wires so they don't get pinched between the two KP halves of the frame.
10. Install middle hinge bolts and the nuts onto the bolt of the latch blocks (NUT10049), but do not torque. Snug all hardware. Torque all 8 hinge bolts (BLT10016) to 173 ft-lbs. (235 Nm). Torque latch block nuts (NUT10049) to 173 ft-lbs. (235 Nm).
11. Install oil fittings and oil lines as well as temp sensors if disconnected.

Roll Life Measurement

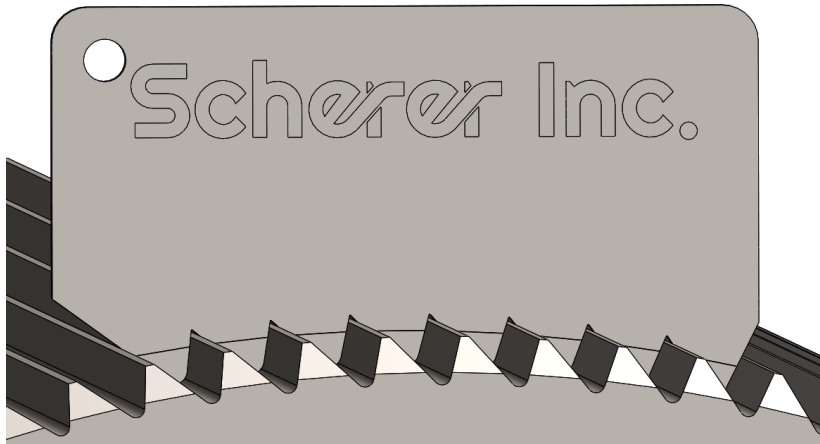
When servicing rolls at the end the season, roll profile gauges can be used to determine if the rolls have been worn out. When using the roll tooth gauges if the flat of the tooth is below the engraved line then the roll is past its recommend life.

The roll gauge PRT1 1025 can be purchased for the 1300SI.

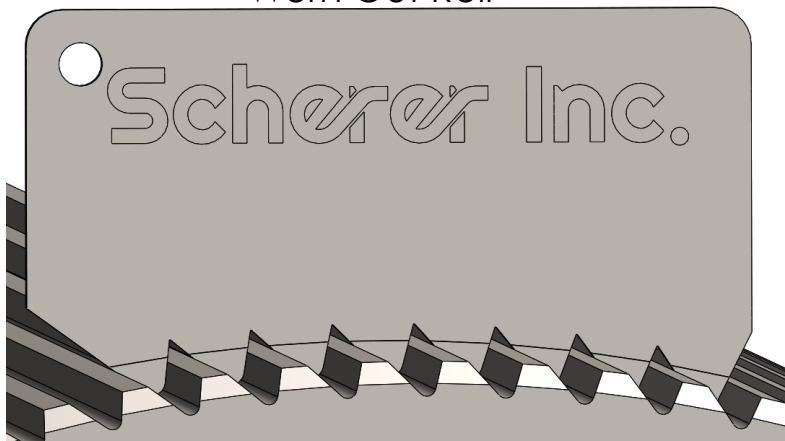
New Roll



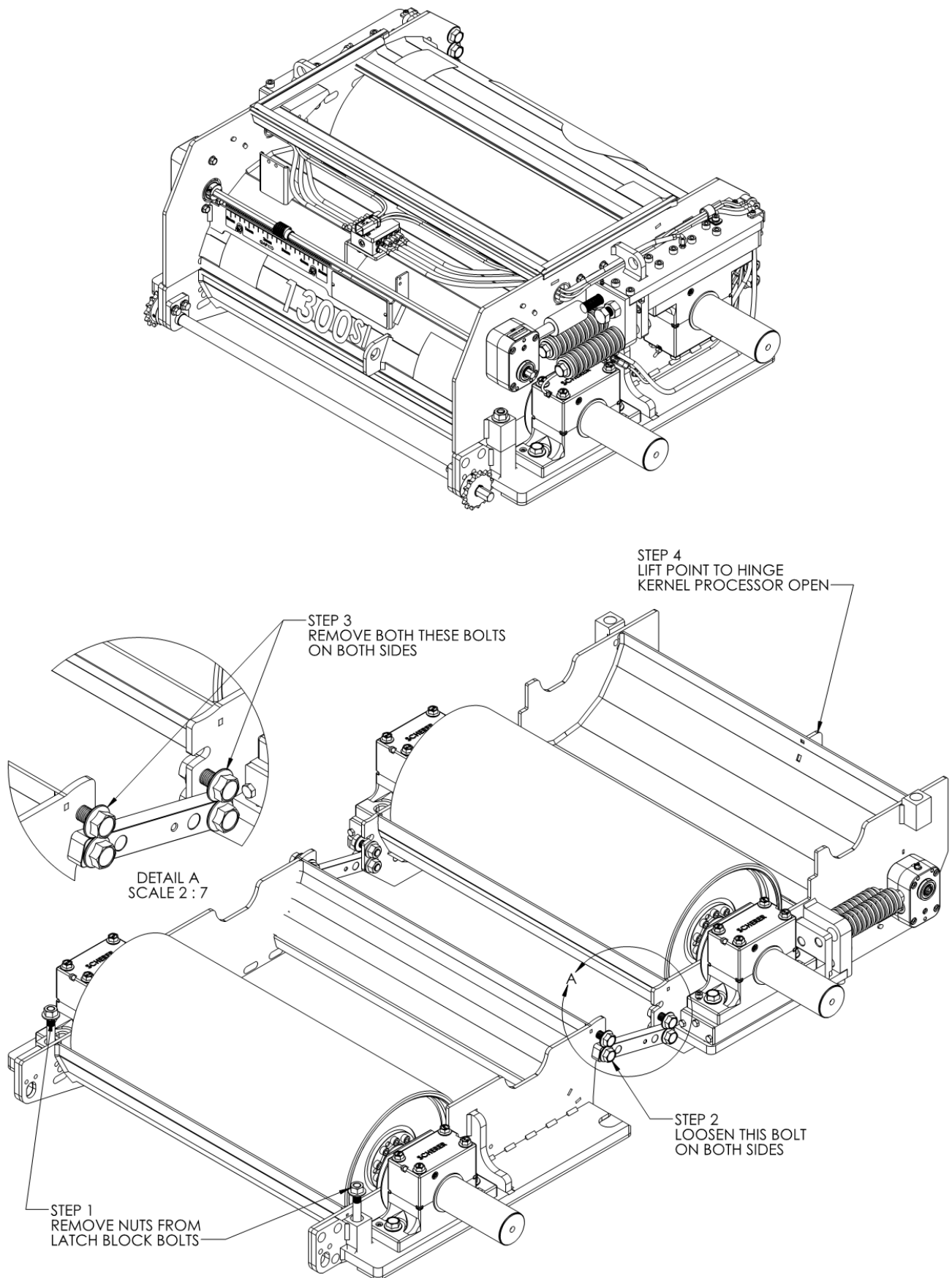
Used Roll



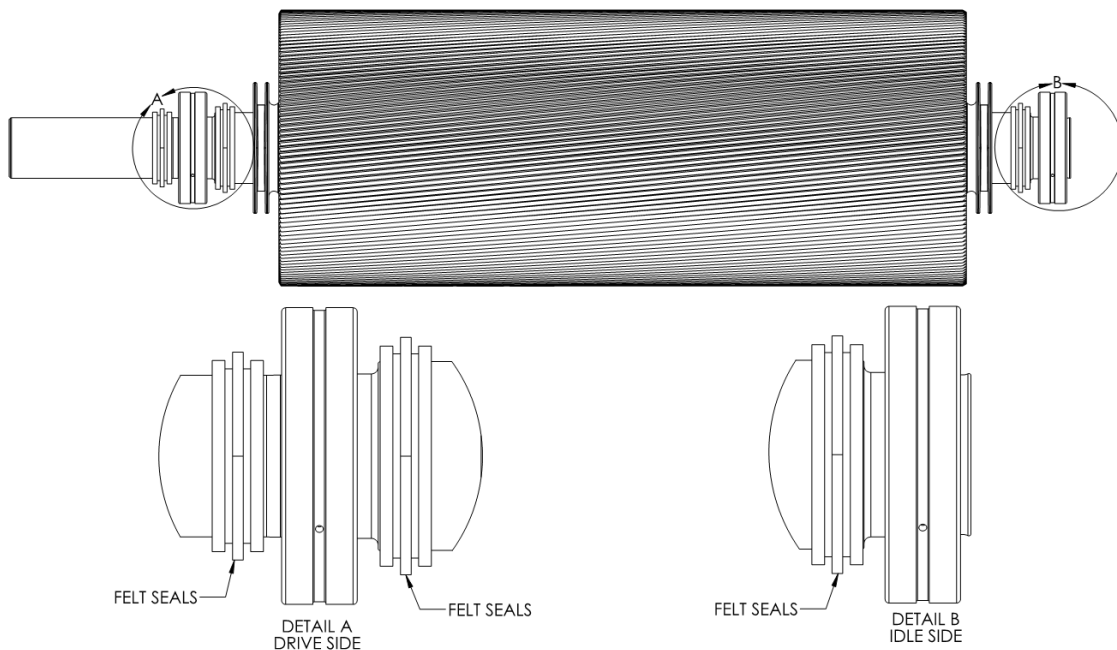
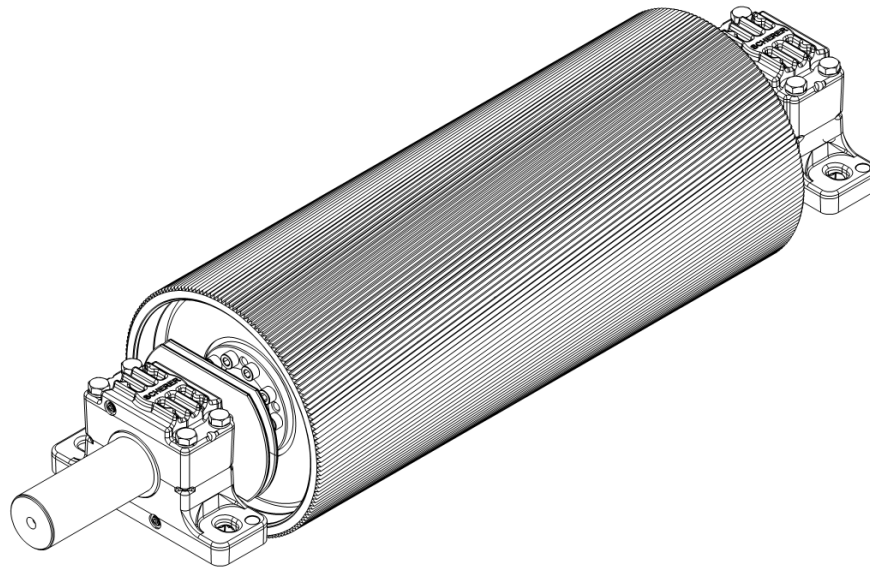
Worn Out Roll



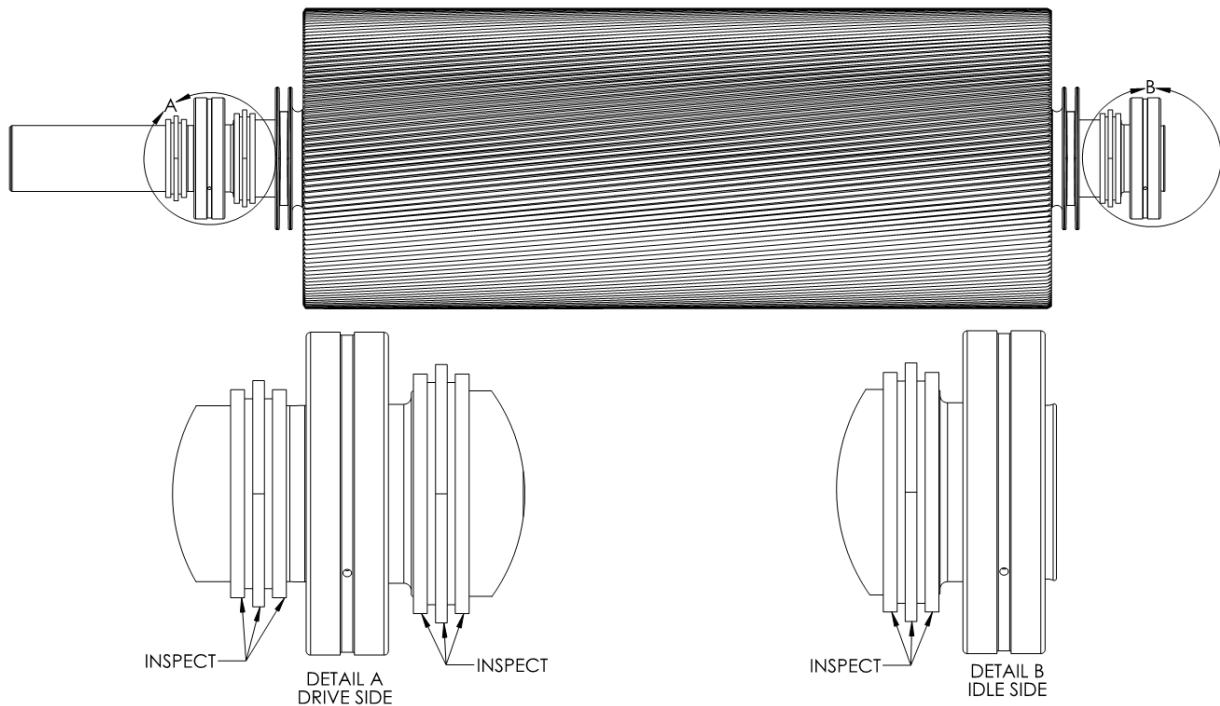
Processor Opening Process



End of Year Roll Maintenance



- At the end of the season it is highly recommended that KP roll housings are disassembled and inspected for debris and unusual wear.
- Located on the brass seals there are 6 felt seals (HPR1009). At the end of the season these need to be removed and replaced. **IF SERVICING A GREASE KP ROLL THERE WILL BE NO FELT SEALS. GREASE KP'S DO NOT USE FELT SEALS. THIS IS DONE TO ALLOW THE GREASE TO PURGE DURING OPERATION.**



- With the felt seals removed inspect the brass seal surfaces for excessive wear or galling. If either excessive wear or galling is found, replace the components.
- The edges of the housings where the brass seals sit need to be inspected for wear and galling as well.
- With ISO 32 oil flush out the bearing housing cavity and the two roll bearings.
- After removal of the felt seals and inspection of the components the roll assembly can be rebuilt.
- Prior to installing the new felt seals soak them in ISO 32 oil.
- The new felt seals can be pressed into place with a flat screw driver. The green face of the felt will be facing out so that it contacts the brass seal. The ends of the felt can be trimmed with a utility knife so that the felt is flush with the edge of the housing.
- The housings can be reassembled and filled with 14.75 CC's of Scherer KP oil. This is equivalent to ISO 32 oil.
- Apply a thin coat of oil or some type of rust inhibitor to the roll corrugation to avoid corrosion.

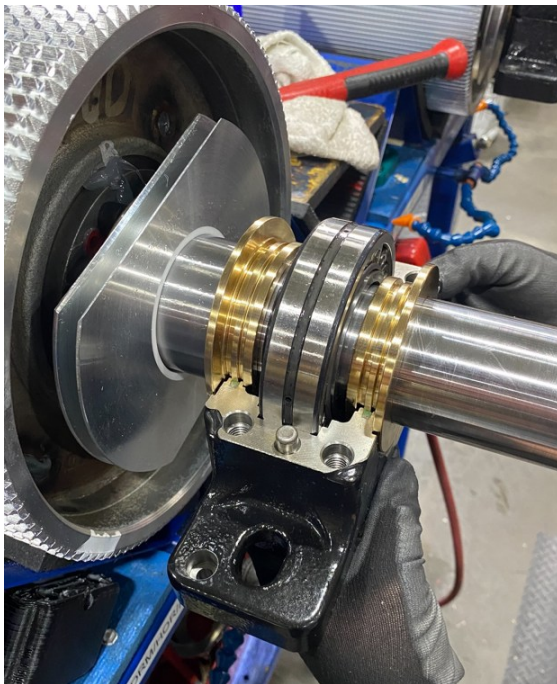
Roll Bearing Removal and Installation

1. To remove the roll bearing, the housing must be disassembled. Remove the 4 bolts on top of the housings. Tap on the feet of the lower housing with a soft mallet to separate the two halves.

***NOTE*: Housings are machined as matched sets. The two halves are engraved to show parity.**



2. Remove the outer brass seal and then use the bearing removal tool (A5002) to remove the bearing.



2. Remove inner brass housing seal and aluminum spool seal. Clean and inspect. Replace if any components show improper wear. Make sure to install the brass housing seal dry. **NO LUBRICANT**



3. Using the bearing heater (A0021) heat the bearing to 230 degrees F (110 degrees C). Using proper PPE (Personal Protective Equipment) take the bearing and slide it onto the shaft until it hits the machined step. If the bearing gets jammed, pull the bearing off again with the removal tool (A5002) and re-heat the bearing and install again. Reassemble the bearing housing and torque the housings bolts to 65 Ft-lbs (88Nm).

