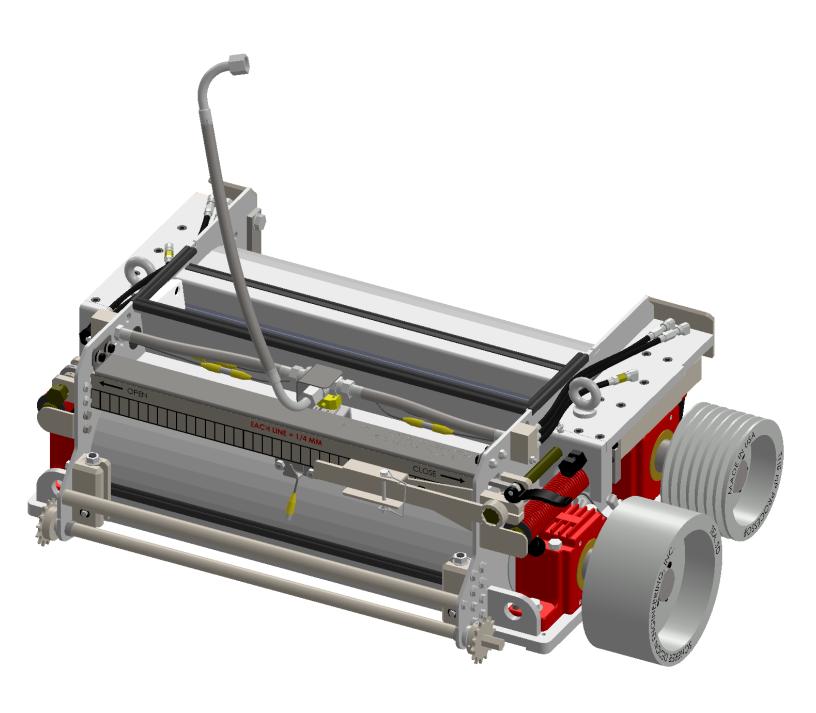
SCHERER PROCESSOR MODEL: HPM

U.S. Patent No. 7,681,384



Manual Part Number: MANHPM2019 REV-A



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SCHERER H.P.M. PROCESSOR

U.S. Patent No. 7,681,384
Other Patents Applied For

OPERATOR'S AND PARTS MANUAL

SCHERER DESIGN ENGINEERING, INC.

1-800-883-9790

FOREIGN PATENTS APPLIED FOR

Index

| Section | Page # |
|--|----------|
| Introduction | 1 |
| | 2-3 |
| Safety Installation | 2-3 4 |
| | 5 |
| Roll Gap Adjustment | |
| LubriMist Maintenance | 6 |
| Warranty | 7 |
| Complete Assembly View | 8 |
| Processor Accessory Parts List | 9 |
| Bottom Section Diagram | 10 |
| Bottom Section Parts List | 10A |
| Top Section Diagram | 11 |
| Top Section Parts List | 11A |
| Top Section Diagram | 12 |
| Top Section Parts Assemblies | 12A |
| Roller Diagram | 13 |
| Roller Parts List | 13A |
| Lubrication System Diagram | 14 |
| Lubrication System Parts List | 14A |
| 7- Groove Pneumatic Tension Drive System Diagram | 15 |
| 7-Groove Pneumatic Tension Drive System Parts List | 15A |
| 7-Groove Pneumatic Tension Drive System Diagram | 16 |
| 7-Groove Pneumatic Part Assemblies | 16A |
| Sentry System Diagram | 17 |
| Sentry System Parts List | 17A |
| Pneumatic System Install | 18-21 |
| 7-Groove Drive Kit Install | 22-23 |
| Roll Change Instructions | 24 |
| Bearing Removal & Installation | 25-28 |
| Common Torque Specifications | 29 |
| Maintenance Intervals | 30 |
| END OF YEAR MAINTENANCE | 31 |
| Sentry Operational Guidelines | 32 |
| Sentry Troubleshooting | 33 |
| Sentry Installation | 34-37 |
| Sentry Operation Notes | 38 |
| LubriMist Installation | 39-40 |
| Taper Lock Install/Removal | 41 |

Introduction

We would like to take this opportunity to thank you and welcome you to the fine group of Scherer Processor owners. You have selected one of the many high quality and precision built processors that Scherer Design Engineering has to offer. Due to the success of the Scherer H.D. and H.P. Processors, we have developed and manufactured the Scherer H.P.M. Processor. Therefore, after years of designing and in-field success, Scherer Design Engineering is proud to offer the 2014 Scherer H.P.M. Processor.

This instruction manual contains specific operating, maintenance, and parts information to help you obtain the most satisfactory performance from your processor. This manual describes how to operate, maintain, and repair your processor.

Proper long-term performance of this equipment is possible only with the cooperation and attention of adequately trained operators and well informed maintenance personnel.

The factory carefully assembled, inspected and tested your processor. Before putting the processor into operation, please read the instruction manual carefully and study the correct operating procedures and become familiar with the total operating process and related machinery.

We are always trying to improve our product as much as possible. If you have any suggestions or concerns about how to make this processor better, feel free to give us a call at any time, your feedback is always welcomed.

The Scherer Design Engineering Team

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 cutter.

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 hoisting equipment in good condition and **DO NOT** stand under objects being hoisted. 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 ever 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 serious injury.

Hearing Protection

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

Installation

Before lifting the processor into place in the cutter, ensure that the latch blocks are snug, 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. For ease of installation, remove the cross bar support that is bolted to the floor and to the discharge chute. Place processor in the cutter. If you have removed the cross bar support, please install it back into place at this time.

Slide the processor in the operating position, using the same clamping system that is in place for the original processor. Ensure the latch blocks on the processor are tight.

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 in the back of this manual.

The roll gap was set at 4 mm and the scale has been marked at the 4 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.

Install the provided oil mist system that came with your Scherer H.P.M. Processor. Connect all oil mister wiring. Finally, connect the oil mister to the processor, ensuring that the coupler is tight.

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 adjustment tool provided. Loosen the adjustment clamp lever on right side adjustment bolt. Rotate the bolt clockwise to open the gap, and counter-clockwise to close the gap. Return the adjustment tool to its original position. The adjustment tool is also a **lock for the roll position.** You will not be able to adjust the rolls closer than 1 mm (.040) 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. When adjusting, watch pointer move across scale. Use the scale to determine your roll gap. The Processor was set at the factory to 4mm. When the adjustment is complete, make sure that the adjustment clamp lever is hand tightened. 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, and the pointer moves onto or near the red marks on scale, 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.

LubriMist Maintenance



- Make sure to maintain an air pressure of 35psi at the LubriMist regulator.
- Oil fill is the plug located on the front of the LubriMist reservoir.
- Fill with oil until the oil level matches the full mark on the sight glass. DO NOT
 OVERFILL!! LUBRIMIST WILL NOT FUNCTION PROPERLY IF IT IS FILLED
 ABOVE THE FULL MARK!!
- We use Chevron Cetus HyperSyn oil. This is an ISO 32 100% synthetic oil (equivalent to SAE 10 weight). This is called turbine oil by some manufacturers. It is available from Scherer Design in one gallon and five 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 3 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 braided steel hose from the LubriMist exhaust port and plug the end of the hose to keep dirt out. Also cap off the LubriMist exhaust port and turn off the air supply to the LubriMist.
- THE LUBRIMIST SYSTEM SHOULD NOT BE PRESSURIZED IF THE EXHAUST PORT IS CAPPED OFF.

LIMITED WARRANTY FOR SCHERER H.P.M. KERNEL PROCESSOR

IT IS EXPRESSLY AGREED THAT THE FOLLOWING WARRANTY IS GIVEN BY SCHERER DESIGN ENGINEERING, INC. IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION OR LIABILITY ON OUR PART OF ANY KIND OR NATURE WHATSOEVER.

No representative of ours has any authority to waive, alter, vary or add to the terms hereof without prior approval in writing, to our customer, signed by an officer of our company. It is expressly agreed that the entire warranty given to the customer is embodied in this writing; that this writing constitutes the final expression of the parties' agreement with respect to warranties; and that it is a complete and exclusive statement of the terms of the warranty.

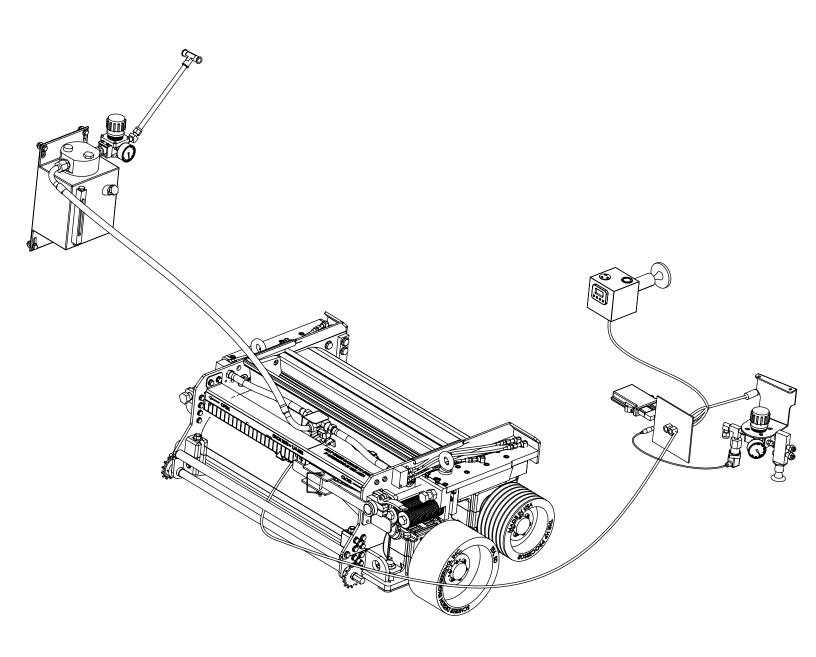
We warrant to our customers that all products manufactured by us will be free from any manufacturing defects at the time of shipment to our customer for a period of one (1) year from the date of shipment. All warranty claims must be submitted to us within ten days of discovery of defects within the warranty period, or shall be deemed waived. As to our products that are proven to have been defective at the time of shipment, and that were not damaged in shipment, the sole and exclusive remedy shall be repair or replacement of the defective parts or repayment of the proportionate purchase price for such products or parts, at our option. Replacement parts shall be shipped free of charge f.o.b. from our factory. This constitutes a full and complete statement of the warranty provided and the product is otherwise deemed to have been accepted AS IS and with all faults.

This warranty shall not apply to any product which has been subject to operator misuse; misapplication, neglect (including but not limited to improper maintenance and storage); accident; improper installation, modification (including but not limited to use of unauthorized parts or attachments), adjustment, repair or lubrication. Misuse also includes, without implied limitation, deterioration in the product or part caused by chemical action, wear caused by the presence of abrasive materials, improper lubrication, and failure to clean the processor area daily and to follow the lubrication instructions which are provided. Identifiable items manufactured by others but installed in or affixed to our product are not warranted by us but, bear only those warranties, express or implied, given by the manufacturer of that item, if any.

Responsibility for proper use, installation, and application of the Scherer H.P.M. Kernel Processor rests solely with customer and it is expressly agreed between the parties that our liability for any damages arising out of or related to this transaction, or the use of our product, whether in contract, tort, or based upon any state or federal claim whatsoever, is exclusively limited to the repair or replacement of the product, or the parts thereof by us, or to a refund of the proportionate purchase price. We will not be liable for any other injury, loss, damage or expense, whether direct or consequential, including but not limited to loss of use, income, profit, production, or increased costs of operation, or spoilage of or damage to material, arising in connection with the sale, installation, use of, inability to use, or the replacement of, or late delivery of, our product.

It is also expressly agreed that any cause of action for breach of any warranty must be brought within one year from the date of the breach. Nothing contained herein shall be deemed to abrogate any legal rights or defenses the Producer may have relative to this product.

SCHERER H.P.M. PROCESSOR WITH ACCESSORIES



Processor Accessory Parts

A0001 H.D. Bearing Installation and Removal Tool

A0002 H.D. Bearing Removal Driver

A0003 Lift Chain

A0006 1 Gal. HyperSyn Oil

A0006.5 5 Gal. HyperSyn Oil

A0007 H.D. Track Extension

A0008 Laser Temp. Gun

A0010 H.P. Bearing Removal Tool

A0011 Laser Alignment Tool

A0015-1 Scherer Processor Brochure

A0015-2 HDS Owner's Manual

A0015-3 HP Owner's Manual

A0015-4 HPS Owner's Manual

A0015-5 HPM Owner's Manual

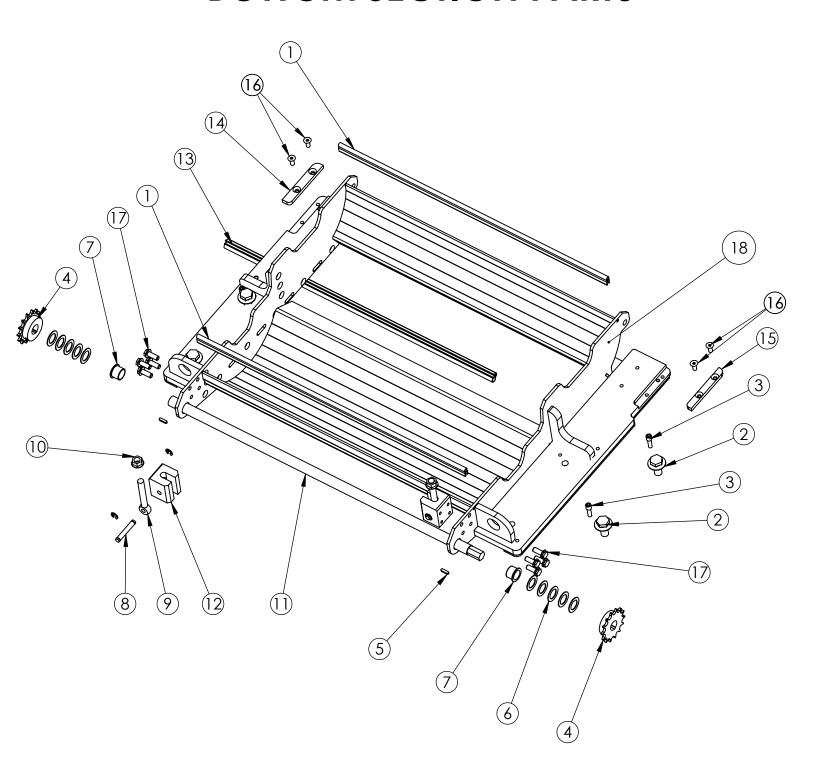
A0015-6 HPMS Owner's Manual

A0017 Dealer Pricing SD Card

A0019 Flash Drive

A0021 SKF Bearing Heater

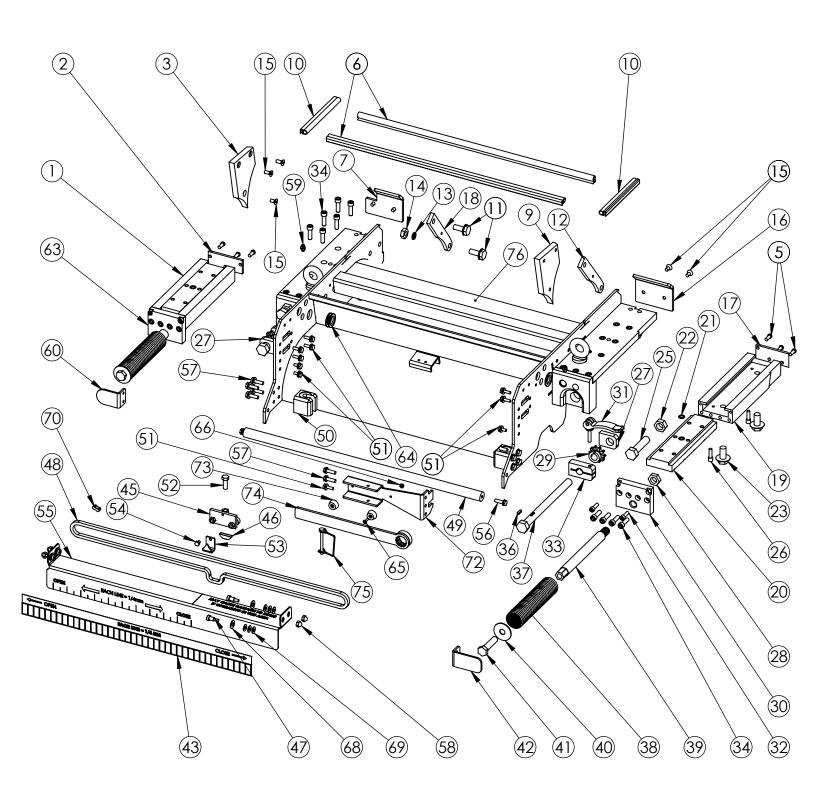
SCHERE H.P.M. PROCESSOR BOTTOM SECTION PARTS



SCHERER H.P.M. PROCESSOR BOTTOM SECTION PARTS LIST

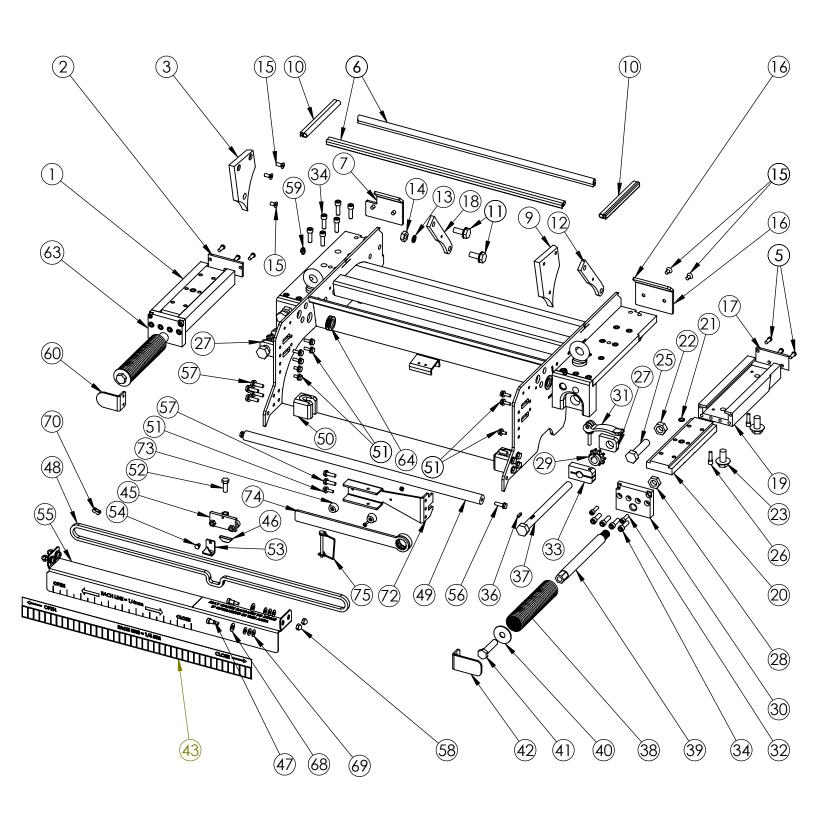
| | Part # | Qty. | Description |
|----|------------|------|---------------------------------|
| 1 | TB1043 | 2 | Front & Rear Shroud Seal |
| 2 | HPTB1010 | 4 | .625 x 1.5 Bearing Housing Bolt |
| 3 | TB1008 | 4 | .312 x 1 Bearing housing Bolt |
| 4 | B1027 | 2 | Position Drive Sprocket |
| 5 | B1016 | 2 | Кеу |
| 6 | B1029 | 10 | Sprocket Rod Washer |
| 7 | B1030 | 2 | Position Rod Bushing |
| 8 | B1036 | 2 | Latch Block Eye Pin With Clips |
| 9 | B1037 | 2 | Latch Block Eye Bolt |
| 10 | B1038 | 2 | Latch Block Eye Bolt Nut |
| 11 | B1039 | 1 | Position Drive Sprocket Rod |
| 12 | B1035 | 2 | Lower Latch Block |
| 13 | T1054 | 1 | .625 90 Degree Bulb Seal |
| 14 | HPMB1041 | 1 | Left Base Plate Adapter |
| 15 | HPMB1040 | 1 | Right Base Plate Adapter |
| 16 | HPT1004 | 4 | 5/16 x 3/4 Flat Head Boldt |
| 17 | TB1034 | 8 | Latch Block Bolts |
| 18 | HPMF1000.2 | 1 | Bottom Frame Member |

SCHERER H.P.M. PROCESSOR TOP SECTION PARTS



| PART# QTY | SCH | ERER H.P.M. PI | ROCESSO | OR TOP SECTION PARTS LIST |
|--|------------|---------------------|----------|--|
| 2 HPT1002 1 H.P. Leff Bearing Slide Front Cap 3 HPT1003 1 H.P. Leff Cheek Plate 5 HPT1005 6 Front Slide Cap Bolf 6 T1054 2 S25 90 Degree Bulb Seal 7 HPT1007 1 Left Roll Over Protection Bracket 10 HPT1001 2 H.P. 90 Degree Side Sulb Seal 11 HPT101 2 H.P. 90 Degree Side Sulb Seal 12 HPT101 2 H.P. 90 Degree Side Sulb Seal 13 HPT101 2 H.P. 100 Plate Bulb Seal 14 HPT101 2 H.P. 100 Plate Bulb Seal 15 HPT101 2 H.P. 100 Plate Bulb Seal 16 HPT101 1 H.P. 100 Plate Bulb Seal 17 HPT101 2 H.P. 100 Plate Bulb Seal 18 HPT101 3 Degree Side Sulb Seal 19 HPT101 1 H.P. 100 Plate Bulb Seal 19 HPT101 1 H.P. 100 Plate Bulb Seal 19 HPT101 1 H.P. 100 Plate Bulb Seal 10 Roll Over Protection Bracket Bolf 10 Roll Over Protection Bracket Bolf 11 H.P. 101 Plate Bulb Seal 12 H.P. 101 Plate Bulb Seal 13 HPT101 1 H.P. 101 Plate Bulb Seal 14 H.P. 101 Plate Bulb Seal 15 HPT101 1 H.P. 101 Plate Bulb Seal 16 HPT101 1 H.P. 101 Plate Bulb Seal 17 HPT101 1 H.P. 101 Plate Bulb Seal 18 HPT101 2 H.P. 101 Plate Bulb Seal 18 HPT102 1 H.P. 101 Plate Bulb Seal 19 HPT102 1 H.P. 101 Plate Bulb Seal 20 HPT102 1 H.P. 101 Plate Bulb Seal 21 HPM1105 2 Inner Slide O-Ring 22 HPST1025 1 Roll Seal 23 HPTB101 4 S/8 x 1 1 / 2" Bearing Housing Bolt 24 H.P. 101 Stop Bolf 25 HPST1025 2 H.P. 101 Spining Rod Lock Nut 26 Bl06 4 S/16 x 1 1 / 4" SHCS 27 HPT1031 1 Adjustment Bolf Guide 28 HPST1009 2 Spining Rod Lock Nut 29 Bl06 2 Plate Spining Rod Lock Nut 29 Bl06 2 Plate Spining Rod 30 HPT111 1 H.P. Bearing Slide Right Rear Cap 31 HPT1031 1 Adjustment Bolf Bolf 32 Bl06 2 Spining Rod 34 Bl06 1 Roll Seal 35 Bl06 1 Roll Seal 36 Bl06 1 Roll Seal 37 HPT103 1 Roll Seal 38 HPT103 2 Spining Rod 39 HPST1003 2 Spining Rod 30 Bl06 1 Roll Seal 30 Bl06 1 Roll Seal 31 HPT103 1 Roll Seal 32 Bl06 1 Roll Seal 33 Adjustment Claring Lever 34 HPT104 1 Roll Seal 35 Bl06 1 Roll Seal 36 Bl06 1 Roll Seal 37 HPT103 1 Roll Seal 38 HPT103 1 Roll Seal 39 HPST100 1 Roll Seal 30 Bl06 1 Roll Seal 30 Bl07 1 Roll Seal 31 HPT103 1 Roll Seal 32 Bl06 1 Roll Seal 33 Roll Seal 34 Bl06 1 Roll Seal 35 Bl06 1 Roll Se | 1 | PART# | QŢY. | DESCRITPTION Laborated to the control of the contro |
| 3 | 1 | HPITION | 1 | H.P. Left Outer Slide H.P. Left Regring Slide Front Cap |
| 5 HPT1005 6 Front Side Cap Bolt 6 T1054 2 2.625 90 Degree Bulb Seal 7 HPT1007 1 Left Roll Over Protection Bracket 9 HPT1009 1 H.P. Right Cheek Plate 10 HPT1010 2 H.P. 90 Degree Side Bulb Seal 11 HPT1011-1 4 1/2 x 1 1/4" Hinge Bolt 12 HPT1012R 1 H.P. Right Cheek Plate 13 HPT1013 2 H.P. Hinge Washer 14 HPT1014 2 H.P. Hinge Washer 15 HPT1015 10 Roll Over Protection Bracket Bolt 16 HPT1016 1 Right Roll over Protection Bracket Bolt 17 HPT1017 1 H.P. Right Bearing Side Front Cap 18 HPT1012L 1 H.P. Right Cheek Side Bolt 19 HPT1102 1 H.P. Right Cheek Side Bolt 19 HPT1102 1 H.P. Right Cheek Side Bolt 20 HPT1104 2 H.P. Right Cheek Side Bolt 21 H.P. Right Cheek Side Bolt 22 HPST102S. 1 2 Roll Stop Nul 23 HPRB1010 4 5/8 x 1.1/2 Bearing Housing Bolt 24 H.P. Right Cheek Side 25 HPST102S 2 H.P. Roll Stop Bolt 25 HPST102F 2 H.P. Roll Stop Bolt 26 Roll Side Bolt 27 HPT1027 3 Adjustment Bolt Guide 28 HPST1009 2 Spring Roll Lock Nul 29 B1067 2 Plate Bolt Side Side Roll Side Roll 30 HPT1111 1 H.P. Right Cheek 31 HPT1031 1 Adjustment Chemp 32 B1063 1 Adjustment Chemp 33 HPTB1033 2 H.P. Roll Side Bolt 34 B1023 20 Spring Roll Lock Nul 39 HPT1031 1 Adjustment Chemp 31 HPT1033 2 H.P. Roll Side Bolt 34 B1023 20 Spring Roll Lock Nul 35 HPT1034 2 H.P. Roll Side Bolt 36 B1060 2 Spring Roll Lock Nul 37 HPT1034 2 H.P. Roll Side Side Roll 38 HPT1038 2 H.P. Roll Side Side Roll 39 HPST1038 2 H.P. Roll Side Side Roll 30 HPT1111 1 H.P. Begring Side Roll Rear Cap 31 HPT1031 1 Adjustment Chemp 32 B1064 1 Side Roll Adjustment Bolt 33 H.P. Soring 34 B1055 1 Roll Roll Side Roll Adjustment Bolt 44 B1020 2 Spring Bolt 45 B1060 1 Side Roll Adjustment Pointer 46 B1060 1 Side Roll Adjustment Pointer 47 HPT1104 1 H.P. Adjustment Pointer 48 HPT1048 1 H.P. Adjustment Pointer 49 HPT1049 1 H.P. Begring Side Left Rear Cap 40 B1062 1 Roll Adjustment Pointer 41 HPT1031 1 H.P. Begring Bolt 42 B1064 1 T.P. Adjustment Pointer 43 B1065 1 HPT1069 1 HP | | | 1 | H. P. Loft Chook Plata |
| 6 | 5 | HPT1005 | 6 | Front Slide Cap Bolt |
| 7 HPI1007 Left Roll Over Protection Bracket 9 HPI1007 H.P. Right Cheek Plate 10 HPI1010 2 H.P. 90 Degree Side Bulb Seal 11 HPI1011-1 4 I.72 x 11 /4 Hinge Bolf 12 HPI1012R H.P. Right Hinge Bolf 13 HPI1012R H.P. Right Hinge Bolf H.P. Right Booring Side Front Cap H.P. Right Booring Side Front Cap H.P. Right Booring Side Front Cap H.P. Right Roll over Protein Bracket H.P. Right Booring Side Front Cap H.P. Right Booring Roll Cap | | | | |
| 9 HPT1009 1 H.P. Right Cheek Plate 10 HPT1010 2 H.P. 9D Degree Side Bulb Seal 11 HPT1011-1 4 1/2 x1 1/4" Hinge Bolf 12 HPT1013 2 H.P. Right Hinge 13 HPT1013 2 H.P. Right Hinge 14 HPT1014 2 H.P. Right Roll over Protection Bracket Bolf 15 HPT1015 10 Roll Over Protection Bracket Bolf 16 HPT1017 1 H.P. Right Rearing Slide Front Cap 17 HPT1017 1 H.P. Right Rearing Slide Front Cap 18 HPT1012 1 H.P. Right Bearing Slide Front Cap 19 HPT1102 1 H.P. Right Bearing Slide Front Cap 19 HPT1102 1 H.P. Right Bearing Slide Front Cap 19 HPT1105 2 H.P. Right Bearing Slide Front Cap 20 HPT1105 2 Inner Slide 21 HPMT105 2 Inner Slide 22 HPST1025.1 2 Roll Stop Nut 23 HPT81010 4 5/8 x 1 1/2" Bearing Housing Bolf 24 HPT Ling Slide 25 HPST1005.1 2 Roll Stop Bolf 26 TB 1008 4 Solf Slop Nut 27 HPT102 3 Adjustment Bolf Guide 28 HPST1009 2 Spring Rod Lock Nut 29 Blo67 2 Plated Spracket 30 HPT111 1 H.P. Bearing Slide Right Rear Cap 31 HPT103 1 Adjustment Clamp Lever 32 Blo24 4 Solf Slop Roll 33 HPT1037 2 H.P. Roll Shrocket 34 Blo23 20 Solf Roll Stop Roll 34 Blo23 20 Solf Roll Shrocket 36 Blo16 2 Spring Roll Washer 37 HPT1037 2 H.P. Adjustment Bolf 40 Blo02 2 Spring Bolf Washer 41 Blo01 2 Spring Bolf Washer 41 Blo01 2 Spring Bolf Washer 42 HPT104 1 Right Spring Gourd 43 Blo56 1 Roll Adjustment Reference Slicker 44 Blo20 1 Roll Shrower 45 Blo4 1 H.P. Roll Shrower 46 Blo60 1 Roll Adjustment Reference Slicker 47 HPT1117 4 Slicks 48 HPT104 1 Right Spring Gourd 49 HPT104 1 Right Spring Gourd 40 Blo02 2 Spring Bolf Washer 41 Blo01 2 Right Spring Gourd 42 HPT104 1 Right Spring Gourd 43 Blo56 1 Roll Adjustment Pointer 44 HPT104 1 Right Spring Gourd 45 Blo64 1 Right Spring Gourd 46 Blo60 1 Roll Adjustment Pointer 47 HPT1117 1 H.P. Bearing Slide Left Rear Cap 48 HPT104 1 Right Spring Gourd 49 HPT1059 2 Roll Roll Roll Roll Roll Roll Roll Ro | 7 | HPT1007 | 1 | |
| 10 | 9 | HPT1009 | i | H.P. Right Cheek Plate |
| 11 | | | 2 | H.P. 90 Degree Side Bulb Segl |
| 12 | | | | 1/2 x 1 1/4" Hinge Bolt |
| 13 | | | 1 | |
| 14 | | | 2 | |
| 15 | 14 | | | H.P. Hinge Nut |
| 17 | | HPT1015 | 10 | Roll Over Protection Bracket Bolt |
| 17 | | HPT1016 | 1 | Right Roll over Protetion Bracket |
| 19 | | | 1 | H.P. Right Bearing Slide Front Cap |
| 20 | 18 | HPT1012L | 1 | |
| 20 | 19 | HPT1102 | 1 | H.P. RightOuter Slide |
| 222 | 20 | | 2 | H.P. Inner Slide |
| 23 | 21 | HPMT1105 | | Inner Slide O-Ring |
| 25 HPST10025 2 H.P. Roll Stop Bolt 5/16 x 1"SHCS 27 HPT1027 3 Adjustment Bolf Guide 27 HPT1027 3 Adjustment Bolf Guide 28 HPST1009 2 Spring Rod Lock Nut 29 B1067 2 Flated Sprocket 30 HPT1111 1 H.P. Bearing Slide Right Rear Cap 31 HPT1031 1 Adjustment Clamp Lever 32 B1024 4 SJ./6 x 1 1/4"SHCS 33 HPT1033 1 Adjustment Clamp Lever 34 B1023 20 3/8x1 1/4"SHCS 34 B1023 20 3/8x1 1/4"SHCS 36 B1016 2 Key 37 HPT1037 2 H.P. Adjustment Bolt 38 HPT1038 2 H.P. Spring Rod 39 HPST1003L 2 Spring Rod 39 HPST1003L 2 Spring Rod 40 B1002 2 Spring Bolt Washer 41 B1001 2 Spring Bolt Washer 42 HPT1042 1 Right Spring Gaurd 43 B1056 Roll Adjustment Reference Sticker 45 B106 1 Chain Tensioner Rey 47 HPT1117 4 Right Spring Rod 50 T1057 2 Top Latch Block 51 HPT1048 1 H.P. Adjustment Chain Hersioner Rey 47 HPT1048 1 H.P. Adjustment Chain Hersioner Rey 51 HPT1048 1 H.P. Adjustment Chain Hersioner Rey 51 HPT1051 10 SJ./8 x 1"Shoulder Bolt HPT1045 1 Top Latch Block 51 HPT1055 1 HPT1055 1 HPT1055 1 HPT1055 1 HPT1055 1 HPT1055 1 HPT1059 2 Bumper Not HPT1059 2 Bumper Not HPT1059 2 Bumper Bolt 68 HPT1115 4 Top Start Street HPT1059 2 Bumper Bolt 68 HPT1115 4 Top Street Street Rey 69 HPT1059 2 Bumper Bolt 68 HPT1115 4 Top Street Rey Care Bumper Bolt 68 HPT1115 4 Top Street Bumper Bolt 68 HPT1107 2 Wrench Mount Pin Pin Street Parket Par | | | | Roll Stop Nut |
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| 28 | 25 | | 2 | H.P. Roll Stop Bolt |
| 28 | 26 | TB1008 | 4 | 5/16 x 1" SHCS |
| 29 | | | 3 | |
| 30 | 28 | | | |
| Second | | | 2 | |
| Section | | | 1 | H.P. Bearing Slide Right Rear Cap |
| 34 | 31 | | 1 | |
| 34 | 32 | B1024 | 4 | 5/16 x 1 1/4" SHCS |
| 37 | 33 | HP11033 | I | Adjustment Clamp |
| 37 | 34 | B1023 | 20 | 3/8X1 1/4" SHCS |
| Spring Rod Spring Rod Spring Rod Spring Rod Spring Rod Spring Rod Spring Bolt Spring Gaurd Spring Spring Gaurd Spring Gau | | D1010 | | |
| 39 | | | | |
| 40 B1002 2 Spring Bolf Washer 41 B1001 2 Spring Bolf | | HDCT1000 | | n.r. spiling |
| 41 | | | | Spring Rolf Washer |
| 42 | | | | |
| 43 B1056 1 Roll Adjustment Reference Sticker 45 B1061 1 Chain Tensioner Bracket 46 B1060 1 Chain Tensioner Bracket 47 HPT1117 4 3/8 x 1" Shoulder Bolt 48 HPT1048 1 H.P. Adjustment Chain 49 HPT1049 1 H.P. Liffing Rod 50 T1057 2 Top Latch Block 51 HPT1051 10 5/16 x 3/4" Bolt 52 B1064 1 7/16 x 1 1/4" Bolt 53 B1053 Roll Adjustment Pointer 54 B1065 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 H.P. Chain Gard 56 T1058 2 Liffing Rod Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Nut 66 HPT1109 1 Rubber Gronnector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1079 1 Adjustment Wrench Mount Pin 75 HPT1099 1 Wrench Mount Pin 75 HPT1099 1 Wrench Mount Pin | | | <u>Z</u> | |
| 45 | | | 1 | Right Spring Gaura |
| 47 HPT1117 4 3/8 x 1" Shoulder Bolt 48 HPT1048 1 H.P. Adjustment Chain 49 HPT1049 1 H.P. Lifting Rod 50 T1057 2 Top Latch Block 51 HPT1051 10 5/16 x 3/4" Bolt 52 B 1064 1 7/16 x 1 1/4" Bolt 53 B 1053 1 Roll Adjustment Pointer 54 B 1065 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 H.P. Chain Gard 56 T1058 2 Lifting Rod Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Nut 68 | 43 | B1036 | 1 | |
| 47 HPT1117 4 3/8 x 1" Shoulder Bolt 48 HPT1048 1 H.P. Adjustment Chain 49 HPT1049 1 H.P. Lifting Rod 50 T1057 2 Top Latch Block 51 HPT1051 10 5/16 x 3/4" Bolt 52 B 1064 1 7/16 x 1 1/4" Bolt 53 B 1053 1 Roll Adjustment Pointer 54 B 1065 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 H.P. Chain Gard 56 T1058 2 Lifting Rod Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Nut 68 | 45 | B1061 B1060 | 1 | |
| 48 HPT1048 1 H.P. Adjustment Chain 49 HPT1049 1 H.P. Lifting Rod 50 T1057 2 Top Latch Block 51 HPT1051 10 5/16 x 3/4" Bolt 52 B1064 1 7/16 x 1 1/4" Bolt 53 B1053 1 Roll Adjustment Pointer 54 B1065 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 1/4 x 3/8" Pointer Bolt 56 T1058 2 Lifting Rod Bolt 57 TB1034 10 Latch Block Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1106 2 Rubber Grommet 65 HPT108 2 Bumper Bolt 66 HP | | □ D1000 □ DT1117 | 1 | |
| 49 HPT1049 1 H.P. Lifting Rod 50 T1057 2 Top Latch Block 51 HPT1051 10 5/16 x 3/4" Bolt 52 B 1064 1 7/16 x 1 1/4" Bolt 53 B 1053 1 Roll Adjustment Pointer 54 B 1065 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 H.P. Chain Gard 56 T1058 2 Lifting Rod Bolt 57 TB1034 10 Latch Block Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Mout 68 HPT1115 | 48 | HPT1048 | 1 | H P Adjustment Chain |
| Top Latch Block Silent HPT1051 10 | | | i | |
| 51 HPT1051 10 5/16 x 3/4" Bolt 52 B1064 1 7/16 x 1 1/4" Bolt 53 B1053 1 Roll Adjustment Pointer 54 B1065 1 1/4 x 3/8" Pointer Bolt 55 HPT1055 1 H.P. Chain Gard 56 T1058 2 Lifting Rod Bolt 56 T1058 2 Lifting Rod Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1097 1 Adjustment Wrench Mount 72 HPT10 | | | 2 | |
| S3 B1053 1 Roll Adjustment Pointer | 51 | HPT1051 | | 5/16 x 3/4" Bolt |
| S3 B1053 1 Roll Adjustment Pointer | 52 | B1064 | 1 | 7/16 x 1 1/4" Bolt |
| 55 HPT1055 1 H.P. Chain Gard 56 T1058 2 Lifting Rod Bolt 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 53 | B1053 | 1 | Roll Adjustment Pointer |
| 56 11038 2 Lifting Rod Bolf 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 54 | B1065 | 1 | 1/4 x 3/8" Pointer Bolt |
| 57 TB1034 10 Latch Block Bolt 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1099 1 Wrench Mount Pin | 55 54 | HY11055 T1058 | 1 2 | H.Y. Chain Gara |
| 58 HPT1116 4 5/16" Acorn Nut 59 HPT1059 2 Grease Zerk 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 57 | TR1030 | | Latch Rlock Rolt |
| 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 58 | HPT1116 | | |
| 60 HPT1060 1 Left Spring Guard 63 HPT1112 1 H.P. Bearing Slide Left Rear Cap 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | <u>5</u> 9 | HPT1059 | 2 | Grease Zerk |
| 64 HPT1106 2 Rubber Grommet 65 HPT1108 2 Bumper Bolt 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 60 | HPT1060 | 1 | Left Spring Guard |
| 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | | | 1 | |
| 66 HPT1109 2 Bumper Nut 68 HPT1115 4 10mm SS Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 64 | | 2 | |
| 68 HPT1115 4 10mm \$\$S Washer 69 HPT1069 12 Rubber Washer 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | | | 2 | |
| 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | | HPITIO9 | | Bumper Nut |
| 70 B1070 1 Chain Connector Link 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 68 | HP11115 | 4 | 10mm SS Washer |
| 72 HPT1097 1 Adjustment Wrench Mount 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 57 70 | ПТ11067 R1070 | 1 1 | KUDDEL WUSHEL Chain Connector Link |
| 73 HPT1107 2 Wrench Mount Bumper 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | 72 | HPT1097 | 1 1 | Adjustment Wrench Mount |
| 74 HPT1098 1 Adjustment Wrench 75 HPT1099 1 Wrench Mount Pin | | | 2 | Wrench Mount Bumper |
| 75 HPT1099 1 Wrench Mount Pin | | | 1 | Adjustment Wrench |
| 76 HPMF1000.1 1 Top Frame Member | 75 | HPT1099 | i | Wrench Mount Pin |
| | 76 | HPMF1000.1 | 1 | Top Frame Member |

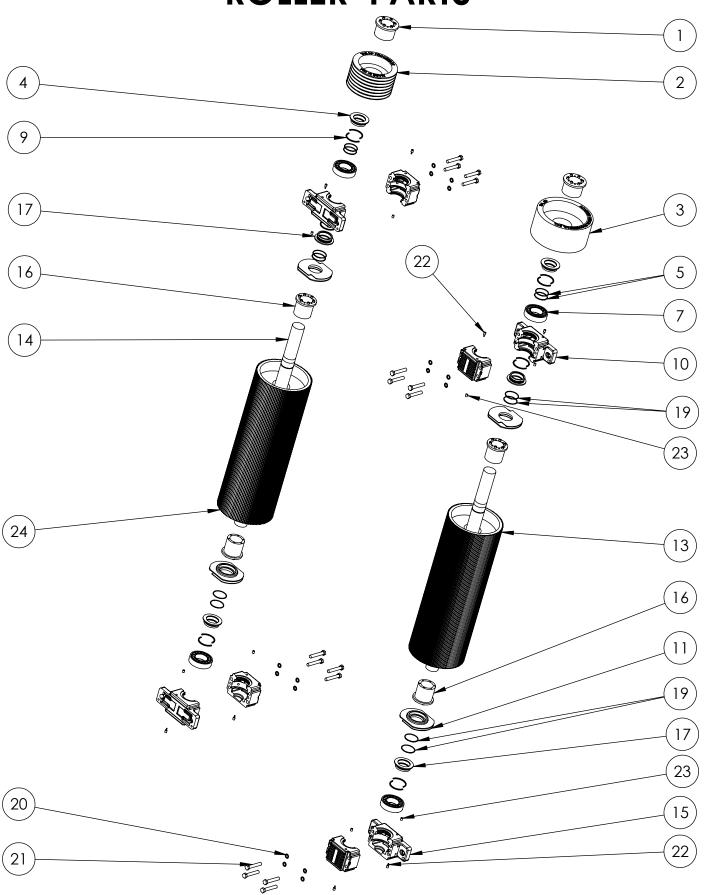
SCHERER H.P.M. PROCESSOR TOP SECTION PARTS



SCHERER H.P.M. PROCESSOR TOP SECTION ASSEMBLY LIST PART# QTY. **DESCRIPTION** * HPT1114L H.P. Left Bearing Slide Assembly HPT1114L INCLUDES THE FOLLOWING PARTS Left Outer Bearing Slide HPT1100 1 HPT1002 Left Bearing Slide Front Cap 1 Slide Assembly Front Cap Bolt 5 HPT1005 3 Inner Bearing Slide 20 HPT1104 1 Inner Bearing Slide O-Ring 21 HPMT1105 1 5/16 x 1" SHCS 32 B1024 2 B1023 3/8 x 1 1/4" SHCS 34 4 HPT1112 63 Left Bearing Slide Rear Cap HPT1114R 1 H.P. Right Bearing Slide Assembly HPT1114R INCLUDES THE FOLLOWING PARTS HPT1005 5 3 Slide Assembly Front Cap Bolt 34 4 3/8 x 1 1/4" SHCS B1023 32 B1024 2 5/16 x 1" SHCS 30 HPT1111 Inner Bearing Slide 1 19 HPT1102 1 Riaht Outer Bearina Slide Inner Bearina Slide HPT1104 20 Inner Bearing Slide O-Ring 21 HPMT1105 HPT1017 Right Bearing Slide Front Cap 17 1 HPT1039RL H.P. Cheek Plate Kit HPT1039RL INCLUDES THE FOLLOWING PARTS 3 HPT1003 Left Cheek Plate 15 5/8" Cheek Plate Bolt HPT1065 6 HPT1009 Right Cheek Plate **HPMTB1075** H.P.M. Bulb Seal Kit HPMTB1075 INCLUDES THE FOLLOWING PARTS 6 T1054 5/8" 90 Degree Bulb Seal 10 HPT1010 2 90 Degree Bulb Seal 2 8 TB1043 Shroud Seal

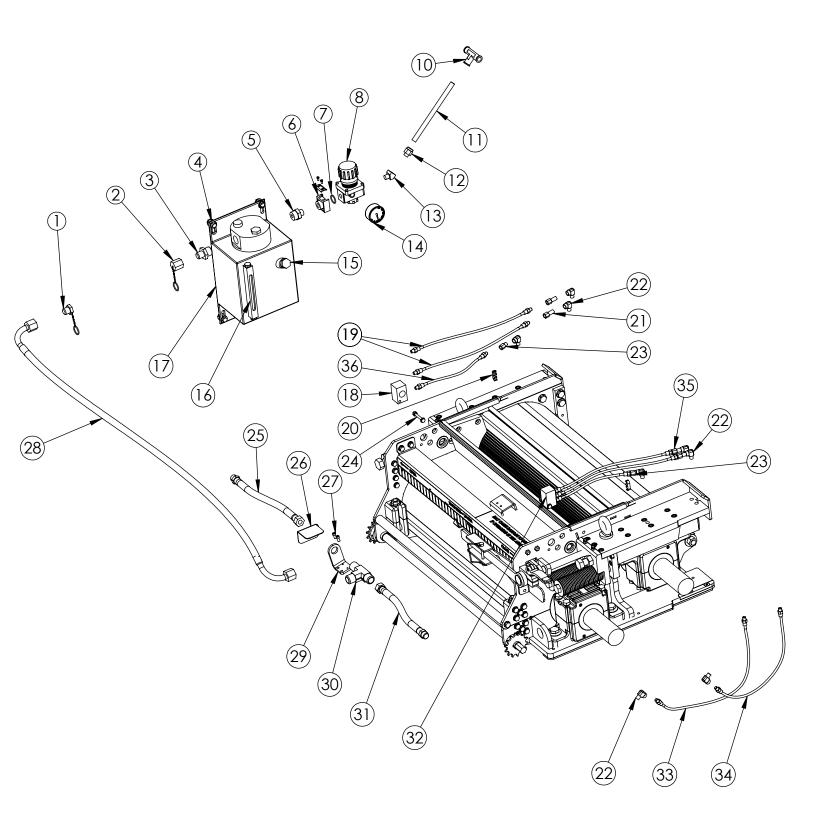
TB1043 SEALS BETWEEN THE TOP AND BOTTOM FRAME HALVES

SCHERER H.P.M. PROCESSOR ROLLER PARTS



| SCHERER H.P.M. PROCESSOR ROLL PARTS LIST | | | | |
|--|------------------|------|--|--|
| | Part # | Qty. | Description | |
| 1 | HPR1001 | 2 | Pulley Locking Hub | |
| 2 | HPR1002-7 | 1 | 7 Groove Pulley | |
| 3 | HPR1003-7 | 1 | 7 Groove Smooth Pulley | |
| 4 | HPR1004-54 | 2 | Outside Housing Seal | |
| 5 | HPR1005-54 | 4 | Outside Housing Seal O-Rings | |
| 7 | HPR1007 | 4 | Roller Bearing | |
| 9 | HPR1009 | 12 | Fiber Oil Seal | |
| 10 | HPR1010 | 2 | Drive Side Bearing Housing | |
| 11 | HPR1011 | 4 | Spool Seal | |
| 13 | HPR1000-145 | 1 | Rear Roll with Shaft | |
| 14 | HPR1014 | 2 | Roll Shaft | |
| 15 | HPR1015 | 2 | Idle Side Bearing Housing | |
| 16 | HPR1017 | 2 | Drive Side Roll to Shaft Locking Hub | |
| 17 | HPR1004-187 | 4 | Inside Housing Seal | |
| 19 | HPR1005-187 | 8 | Inside Housing Seal O-Rings | |
| 20 | R1231 | 16 | Bearing Housing Lock Washer | |
| 21 | R1230 | 16 | Bearing Housing Bolt | |
| 22 | R1236 | 8 | Magnetic Drain Plug | |
| 23 | R1235 | 16 | Drain Plug | |
| 24 | HPR1000-110 | 1 | Front Roll with Shaft | |
| * | HPR1000-110-C | 1 | H.P. 110 Tooth Roll with Seals, Bearings & Housings | |
| * | HPR1000-145-C | 1 | H.P. 145 Tooth Roll with Seals, Bearings & Housings | |
| * | HPR1000-165-C | 1 | H.P. 165 Tooth Roll with Seals, Bearings & Housings | |
| * | HPR1000-110-C-NH | 1 | H.P. 110 Tooth Roll with Seals & Bearings *No Housings | |
| * | HPR1000-145-C-NH | 1 | H.P. 145 Tooth Roll with Seals & Bearings *No Housings | |
| * | HPR1000-165-C-NH | 1 | H.P. 165 Tooth Roll with Seals & Bearings *No Housings | |
| ** | A0010 | 1 | Bearing Puller *Works with all 494 Series &H.D.S. Processors | |

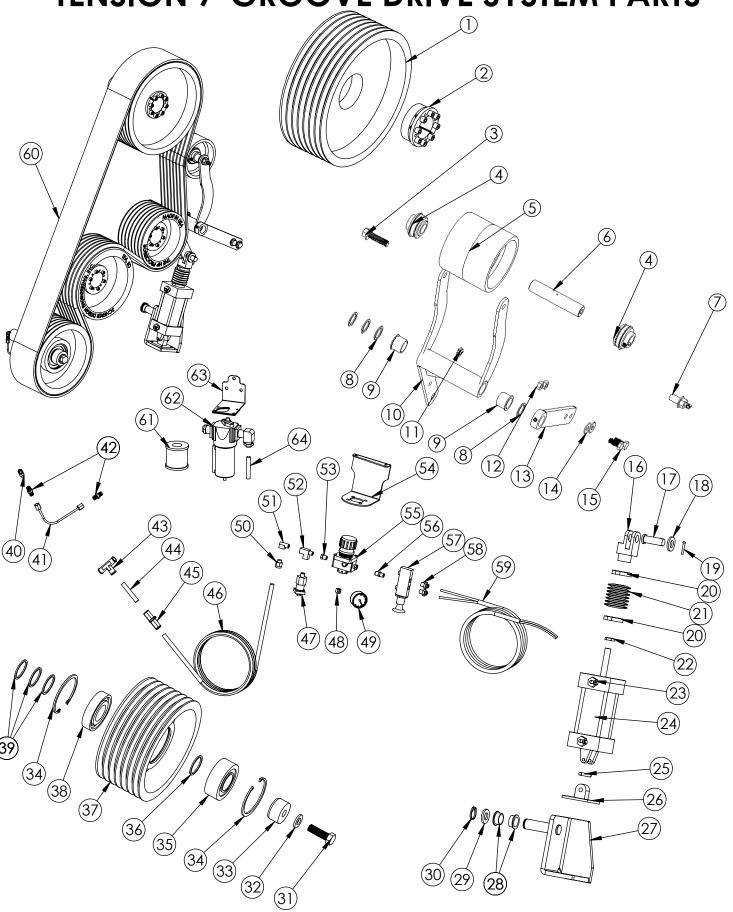
SCHERER H.P.M. PROCESSOR LUBRICATION SYSTEM PARTS



SCHERER H.P.M. PROCESSOR LUBRICATION SYSTEM PARTS LIST

| | Part # | QTY. | Description |
|----|-----------|------|-------------------------------|
| 1 | OM-1005 | 1 | Flared Plug |
| 2 | OM-1006 | 1 | Flared Cap |
| 3 | OM-1008 | 1 | Reducing Fitting |
| 4 | HPT-1092 | 4 | Oil Mister Mounting Hardware |
| 5 | OM-1022 | 1 | 3/4" to 1/2" Reducing Fitting |
| 6 | OM-1020 | 1 | Regulator Attachment |
| 7 | OM-1020.1 | 1 | Regulator Attachment O-ring |
| 8 | OM-1023 | 1 | Air Regulator |
| 10 | HPD-1349 | 1 | 12-mm Push-Loc Tee |
| 11 | OM-1014 | 1 | Air Supply Line |
| 12 | OM-1004 | 1 | 12mm Push-Loc x 1/4" male |
| 13 | OM-1017 | 1 | 45 degree fitting |
| 14 | OM-1015 | 1 | Regulator Gauge |
| 15 | OM-1016 | 1 | Oil Fill Plug |
| 16 | OM-1012 | 1 | Sight Glass |
| 17 | OM-1000 | 1 | Oil Mist Generator |
| 18 | HPT-1080 | 1 | Left Oil Mist Manifold |
| 19 | HPG-1117 | 4 | 16 3/8" Lubrication Line |
| 20 | G-1111 | 2 | Lubrication Line Clip |
| 21 | OM-1001L | 2 | Left Misting Reclassifier |
| 22 | HPT-1085 | 10 | 1/4 Street Elbow |
| 23 | OM-1002 | 2 | Condensing Reclassifier |
| 24 | HPT-1091 | 2 | Manifold Mounting Hardware |
| 25 | HPG-1121 | 1 | Left Oil Mist Hose |
| 26 | HPT-1087 | 1 | Stainless Bulkhead Guard |
| 27 | HPT-1093 | 2 | Tee Bracket Mountig Bolt |
| 28 | HPG-1122 | 1 | Main Oil Supply Hose |
| 29 | HPT-1090 | 1 | Tee Bulkhead Mounting Bracket |
| 30 | HPT-1082 | 1 | Bulkhead Tee |
| 31 | HPG-1120 | 1 | Right Oil Mist Hose |
| 32 | HPT-1081 | 1 | Right Oil Mist Manifold |
| 33 | HPG-1102 | 2 | 21 3/4" Lubrication Line |
| 34 | HPG-1110 | 2 | 163/4" Lubrication Line |
| 35 | OM-1001R | 2 | Right Mist Reclassifier |
| 36 | HPG-1119 | 2 | 10 1/8"Lubrication Line |
| 37 | OM-1026 | 1 | Gasket Kit |

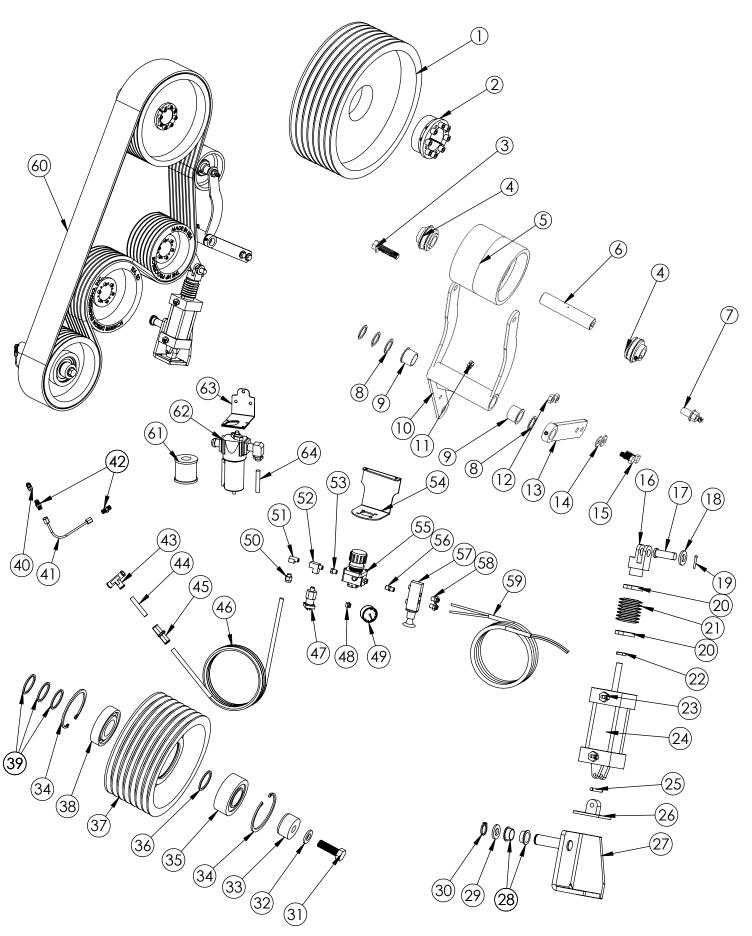
SCHERER H.P.M.S. PROCESSOR PNEUMATIC TENSION 7-GROOVE DRIVE SYSTEM PARTS



SCHERER H.P.M.S. PROCESSOR PNEUMATIC TENSION 7-GROOVE DRIVE PARTS LIST

| * | PART # | QŢY. | DESCRIPTION Considerable II P. Driver Kit /7 Crease Driver Systems) |
|----------|---|----------|--|
| * | HPD1300-7 | l | Complete H.P. Drive Kit (7 GrooveDrive System) |
| 1 | D1301-7 | 1 | Grooved Main Drive Pulley (For 7 Groove Belt) |
| 2 | D1302-7 | 1 | 55mm Locking Hub with Bolts |
| 3 | D1303 | 1 | 1/2 x 1" Bolt |
| 4 | D1304 | 2 | ER16 Bearing |
| 5 | D1305-7 | 1 | Tension Pulley (For 7 Groove Belt) |
| 6 | D1308-7 | 1 | Tension Pulley Shaft for 7 Groove |
| 7 | D1309 | 1 | 1/2 x 1" Bolt with Grease Fitting |
| 8 | D1312 | 4 | Tension Arm Washers |
| 9 | D1310 | 2 | Tension Arm Bushings |
| 10 | HPD1307-7 | 1 | Tensioner Arm for 7 Groove |
| 11 | D1307-7 D1313 HPD1375 HPD1373 HPD1376 HPD1374 HPD1353-7 | 1 | Tensioner Arm Grease Zerk |
| 12 | HPD1375 | 2 | M10 Nut |
| 13 | HPD1373 | 1 | Pivot Tube Brace |
| 14 | HPD1376 | 2 | 10mm Washer |
| 15 | HPD1374_ | 2 | M10 x 30 Bolt |
| 16 | HPD1353-/ | l l | Pneumatic Cylinder Fork for 7 Groove |
| 17 | HPD1314-/ | 1 | 5/8 x 1 3/4" Clevis Pin |
| 18 | D1316-7 | 1 1 | Clevis Pin Washer |
| 19 | D1315 | | Clevis Pin Cotter Key |
| 20 | HPD1399 | 2 | Bellow Clips |
| 21 22 | HPD1396 HPD1391 HPD1354 | | Bellow 1/0.00 James Nucl. |
| 23 | HPD 1391 | | 1/2-20 Jam Nut |
| | HPD1334 | 2 | 3/8" Swivel Fitting |
| 24 | HPD1341 | <u> </u> | 4" Pneumatic Tension Cylinder |
| 25 | HPD1343 | | Pneumatic Cylinder Pin with Snap Rings |
| 26 | HPD1344 | l | Pneumatic Cylinder Male Clevis |
| 27 28 | HPD1346-7 D1323 | 1 | Pneumatic Tension Arm Bracket |
| 28 | D1323 | 2 | Bracket Bushings |
| 29 30 | D1324 D1325-7 | 1 | Bracket Shaft Washer |
| 30 | D1325-7 | l | Bracket Shaft Snap Ring |
| 31 | D1326 | 1 | <u> 16 x 45mm Bolt</u> |
| 32 | D1327 | 1 | 16mm Washer |
| 33 | D1338-7 | l | Idler Shaft Cap for 7 Groove |
| 34 | D1329-7 | 2 | Idler Pulley Snap Ring |
| 35 | D1333-7 | 1 | 5308 Bearing |
| 36 | D1331-7 | 1 | Notched Spacing Washer for 7 Groove |
| 37 | D1332-7 | 1 | Idler Pulley (For 7 GrooveBelt) |
| 38 | D1330-7 | 1 | 6308 Bearing |
| 39 | D1334-7 | 3 | Hardened Spacer Rings |
| 40 | D1338 | 1 | Grease Fitting |
| 41 | | 1 1 | Grease Tube |
| 42 | D1337 D1336 | Ż | Grease Tube Male Adapter |
| 43 | HPD1349 | 1 | 12mm "T" Fitting |
| 44 | HPD1361 | 1 1 | Short 12mm Hose |
| 45 | HPD1359 | i | 12mm Valve Assembly |
| 46 | HPD1348 | 1 1 | H.P. Long 12mm Air Hose |
| 47 | HPD1370 | 1 1 | Air Pressure Sensor |
| 48 | OM1024 | i | 135 Degree Elbow |
| 49 | OM1015 | 1 1 | Air Pressure Gauge |
| 50 | HPD1358 | 1 1 | 1/4" - 12mm Fitting |
| 51 | HPD1402 | 1 1 | 90 Degree Fitting |
| 52 | HPD1371 | 1 | Air Pressure Sensor Tee |
| 53 | OM1021 | 2 | 1/2 to 3/8" Reducing Fitting |
| 54 | HPD1403 | 1 | Air Regulator Bracket |
| 55 | OM1023 | 1 1 | Air Pressure Regulator |
| 56 | HPD1408 | 1 1 | 3/8" Fitting |
| | | | J/O FIIIIIY |
| 57 | HPD1407 | | Air Actuator |
| 58 | HPD1406 | 2 | 3/8 to 1/4" Push-Loc Fitting |
| 59 | HPD1352 | | H.P. 1/4" Air Hose Assembly |
| 60 | HPD1337-7 | | H.P. 7 Groove Banded Drive Belt |
| 61 | HPD1411.1 | <u> </u> | Replacement Filter |
| 62 | HPD1411 | 1 | Air Cleaner Filter Assembly |
| /2 | HPD1414 | 1 | Air Filter Bracket |
| 63 64 | HPD1419 | | 12mm Air Cleaner Hose |

SCHERER H.P.M.S. PNEUMATIC ASSEMBLIES



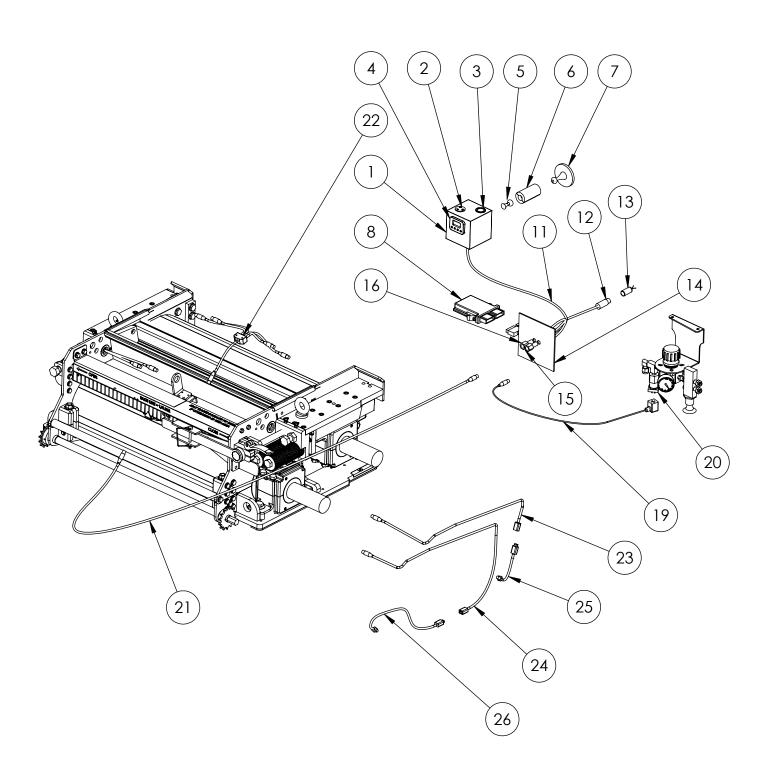
MANHPM2019 (REV A)

Page 16

SCHERER H.P.M.S. PNEUMATIC ASSEMBLIES

| | PART # | QTY. | DESCRIPTION |
|--|---|----------------------------|--|
| * | HPD1300-7 | 1 | Complete Drive Kit (7 Groove Drive System) |
| | | | |
| | | | |
| | | | |
| | | | |
| * | HPD1398-7 | 1 | Complete 4" Penumatic Cylinder |
| | HPD13 | 98-7 INCLU | JDES THE FOLLOWING PARTS |
| 16 | HPD1353-7 | 1 | Pneumatic Cylinder Fork for 7 Groove |
| 20 | HPD1399 | 2 | Bellow Clips |
| 21 22 | HPD1396 HPD1391 | 1 | Bellow 1/2-20 Jam Nut |
| 23 | HPD1354 | 2 | 3/8" Swivel Fitting |
| 24 | HPD1341 | 1 1 | 4" Pneumatic Tension Cylinder |
| 25 | HPD1343 | 1 | Pneumatic Cylinder Pin with Snap Rings |
| 26 | HPD1344 | 1 | Pneumatic Cylinder Male Clevis |
| | | | |
| | | | |
| * | HPD1410-7 | 1 | Complete 7 Groove Idle Pulley |
| * | | | Complete 7 Groove Idle Pulley JDES THE FOLLOWING PARTS |
| * 34 | | | JDES THE FOLLOWING PARTS |
| 34 35 | HPD14 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing |
| 34 35 36 | D1329-7 D1333-7 D1331-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove |
| 34 35 36 37 | D1329-7 D1333-7 D1331-7 D1332-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) |
| 34 35 36 | D1329-7 D1333-7 D1331-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove |
| 34 35 36 37 | D1329-7 D1333-7 D1331-7 D1332-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) |
| 34 35 36 37 | D1329-7 D1333-7 D1331-7 D1332-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) |
| 34 35 36 37 | D1329-7 D1333-7 D1331-7 D1332-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) |
| 34 35 36 37 | D1329-7 D1333-7 D1331-7 D1332-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) |
| 34 35 36 37 | D1329-7 D1333-7 D1331-7 D1332-7 | 10-7 INCLU | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) |
| 34 35 36 37 38 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring |
| 34 35 36 37 38 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor |
| 34 35 36 37 38 * * | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow |
| 34 35 36 37 38 * * 47 48 49 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge |
| 34 35 36 37 38 * * 47 48 49 50 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting |
| * 47 48 49 50 51 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 HPD1402 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting 90 Degree Fitting |
| * 47 48 49 50 51 52 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 HPD1402 HPD1371 | 10-7 INCLU 2 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting 90 Degree Fitting Air Pressure Sensor Tee |
| * 47 48 49 50 51 52 53 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 HPD1402 HPD1371 OM1021 | 10-7 INCLU 2 1 1 1 1 1 1 1 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing '494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting 90 Degree Fitting Air Pressure Sensor Tee 1/2 to 3/8" Reducing Fitting |
| * 47 48 49 50 51 52 53 54 55 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 HPD1402 HPD1371 OM1021 HPD1403 OM1023 | 10-7 INCLU 2 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing Y494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting 90 Degree Fitting Air Pressure Sensor Tee 1/2 to 3/8" Reducing Fitting Air Regulator Bracket Air Pressure Regulator |
| * 47 48 49 50 51 52 53 54 55 56 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 HPD1402 HPD1371 OM1021 HPD1403 OM1023 HPD1408 | 10-7 INCLU 2 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing Y494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting 90 Degree Fitting Air Pressure Sensor Tee 1/2 to 3/8" Reducing Fitting Air Regulator Bracket Air Pressure Regulator 3/8" Fitting |
| * 47 48 49 50 51 52 53 54 55 | HPD14 D1329-7 D1333-7 D1331-7 D1332-7 D1330-7 HPD1385 HPD1370 OM1024 OM1015 HPD1358 HPD1402 HPD1371 OM1021 HPD1403 OM1023 | 10-7 INCLU 2 | JDES THE FOLLOWING PARTS Idle Pulley Snap Ring 5308 Bearing Notched Spacing Washer for 7 Groove Idler Pulley (For 7 GrooveBelt) 6308 Bearing Y494 Pressure Regulator and Actuator Assembly DES THE FOLLOWING PARTS Air Pressure Sensor 135 Degree Elbow Air Pressure Gauge 1/4" - 12mm Fitting 90 Degree Fitting Air Pressure Sensor Tee 1/2 to 3/8" Reducing Fitting Air Regulator Bracket Air Pressure Regulator |

Scherer Sentry System



| | Scherer Sentry System Parts List | | | | |
|----|----------------------------------|------|---|--|--|
| | PART # | QTY. | DESCRIPTION | | |
| 1 | PM3024 | 1 | Alarm Enclosure | | |
| 2 | PM3003 | 1 | Audible Alarm | | |
| 3 | PM3002 | 1 | Mute Button | | |
| 4 | PM2002 | 1 | Display Screen | | |
| 5 | PM1008 | 1 | Alarm Enclosure Mount | | |
| 6 | PM1006 | 1 | Enclosure Mounting Arm | | |
| 7 | PM1007 | 1 | Fixed Post Enclosure Mount | | |
| 8 | PM2003 | 1 | XM 500 Control Box | | |
| 11 | PM3028 | 1 | Main Cab Wire Harness | | |
| 12 | PM3001 | 1 | Male Main System Power Plug | | |
| 13 | PM3005 | 1 | Female Main System Power Plug | | |
| 14 | N/A | N/A | Fire Wall of Forage Harvester | | |
| 15 | PM3011 | 1 | 8-Pin Power Feed | | |
| 16 | PM3012 | 1 | 5-Pin Power Feed | | |
| 19 | PM3020 | 1 | Air Pressure Monitoring Cord | | |
| 20 | PM0011 | 1 | Air Pressure Monitor Switch | | |
| 21 | PM3014 | 1 | Kernal Processor Monitor Cord | | |
| 22 | PM3025 | 1 | Kernal Processor Bearing Monitor Splitter | | |
| 23 | PM3026 | 2 | Short Temp. Monitor Cord | | |
| 24 | PM3027 | 2 | Long Temp. Monitor Cord | | |
| 25 | PM2007 | 2 | Front Temp. Sender Assembly | | |
| 26 | PM2007.1 | 2 | Rear Temp. Sender Assembly | | |

Pneumatic System Install

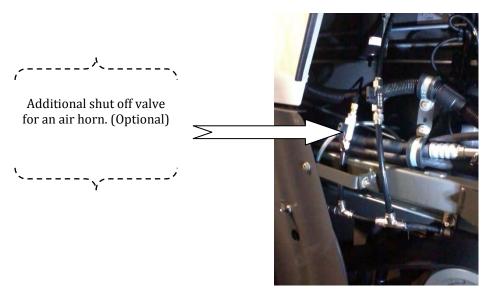
1. Install pneumatic cylinder with provided hardware as shown.



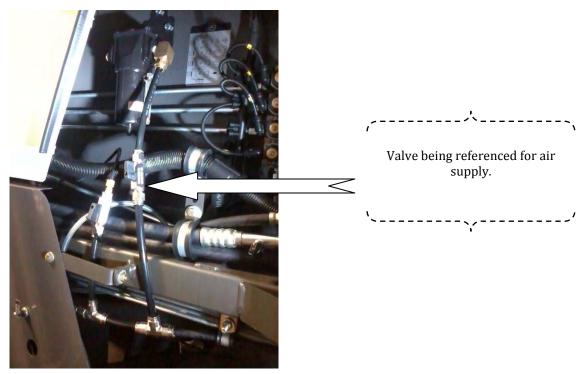
2. Install regulator mounting bracket (HPD1403) as shown on adjacent wall to right of chute. Route air hoses down to pneumatic cylinder. The ¼ inch hoses can be switched in order to get the desired position. Set pressure to 80-85 psi for 6-Groove Drives, 90-95 psi for 7-Groove.



3. Connect supply hose to the CLAAS air hose as shown, using provided "T" fitting (HPD1349). You will have to cut ¾" out of the CLAAS hose in order to install "T" fitting. Route supply hose up and between cab and chute using provided wire-ties in order to connect to the provided air pressure regulator.



4. If the CLAAS machine does not have urea system, an in line air filter (HPD1411) will need to be installed.



5. Use the air filter bracket (HPD1414) as a template inside the processor compartment. Start by measuring from an existing hexagon hole already in the sheet metal. Measure 7" back and 1.5" down for placement of the first hole. Drill the other two holes as needed.





6. Install filter assembly with provided hardware. Cut HPD1361 to length and connect ¼ turn valve assembly (HPD1359) to the air filter assembly (HPD1411) as shown.



7. Use provided cable ties to route supply hose (HPD1348) behind cab and over to the regulator assembly for the drive system (HPD1385). Splice into HPD1348 to provide air to the LubriMist system.





7-groove Drive Kit Install

- 1. Remove right front tire from the forage harvester.
- 2. Remove shield from wheel well.
- 3. Install grease tube (D1337) with the grease tube male adapters (D1336) to the base of the idler shaft on the forage harvester. Then install the grease fitting (D1338). The grease tube will need to be bent and formed by hand in order to fit correctly. Fill the grease tube with grease using a grease gun till the grease comes out of the hole on the shaft.
- 4. Install main drive idle pulley (D1332-7). The idle shaft will have to be cleaned and you may need to use emery cloth and a degreaser to ensure a smooth surface for the bearing to slide on. 3 spacers (D1334-7) are provided to be placed on the shaft prior to installing the idler pulley. The use of these spacers may depend on the alignment of the belt and pulley system. Spacers can be added or taken away as needed.
- 5. Install idler shaft cap (D1338-7) with a 16mm washer (D1327) and a 16 x 45mm bolt (D1326) and torque to 80 ft/lbs. After the pulley installed, give the grease zerk 2 pumps. The idler pulley comes pre-greased from the factory.
- 6. Install grooved main drive pulley (D1301-7) with a 55mm locking hub (D1302-7) on the accelerator shaft of the forage harvester. Again the shaft will need to be cleaned with a degreaser and emery cloth may need to be used to get a clean and smooth surface to ensure a secure lock to the pulley. While installing the main drive pulley, insert the locking hub completely into the center of the main drive pulley making sure that the shoulder of the locking hub is in contact with the center disc of the pulley. Place the main drive pulley onto the accelerator shaft with the locking hub still in place and align the main drive pulley to the lower idler pulley since the idler pulley is fixed. If proper alignment is not obtained, spacers (D1334-7) will need to be added or taken away to facilitate the proper alignment of the system. It is critical to obtain alignment ±1/16 in. After the pulleys have been properly aligned, the 55mm locking hub (D1302-7) will need to be tightened. Tighten bolts with the shoulder of the locking hub firmly pressed into the center disc of the pulley. Torque bolts to 35 ft/lbs. Torque bolts in a clockwise rotation and go around the locking hub 3 times to ensure proper torque. Alignment can also be made easier by using a laser alignment tool (A1010) available through our shop.
- 7. Install the tension arm (HPD 1307-7). The shaft may need to be cleaned and you may need to use emery cloth and a degreaser to ensure that the shaft is clean and smooth. The tension arm can be slid on to the shaft and washers (D1312) are provided for alignment as needed.

- 8. Install the pivot tube brace (HPD 1373).
- 9. Mount the tension arm bracket (HPD 1346-7) in place of the spring tension bracket on the forage harvester. Bushings (D1323), a washer (D1324), and a snap ring (D1325-7) are provided if needed.
- 10. Install the pneumatic tension cylinder (HPD 1341). The base of the cylinder should be connected to the tension arm bracket (HPD 1346-7) and the other end should be connected to the tension arm (HPD 1307-7). Make sure that the swivel fittings (HPD 1354) are facing the rear of the forage harvester when the pneumatic cylinder is installed. This allows for access to the cylinder and fittings from inside the forage harvester.
- 11. Set the processor pulleys to align with the drive system. Once the Scherer Processor is in place and properly aligned; the grooved processor pulley (HPR1002-7) should be loosened and aligned with the main drive grooved pulley (D1301-7) and the idler pulley (D1332-7). This alignment is very critical and should be within $\pm 1/16$ in. After the grooved processor pulley (HPR 1002-7) is in place, the smooth processor pulley (HPR 1003-7) can be aligned to the rest of the drive system. The locking hubs on the processor should be tightened the same way as the main drive pulley locking hub making sure that the shoulder of the locking hub is pressed firmly against the center disc of the pulley. Torque the locking hubs to 30 ft/lbs(Page 41). Torque in a clockwise motion and go around tightening every bolt 3 times. This will ensure all bolts are at the appropriate torque.

H.P.M. Roll Change Instructions

- 1. Remove processor from the forage harvester. A quick power wash 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 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. Loosen the two latch block eye bolts (B1037).
- 5. Loosen the four hinge bolts (HPT1011).
- 6. Open processor so the rolls are exposed.
- 7. Disconnect and remove the temp. senders and the oil line fittings from the bearing castings of the roll to be replaced. If you have problems getting the oil fittings loose, the female end of a ½" ratchet extension can be slid over the oil fitting and may be used to loosen the oil fitting.
- 8. Remove bearing housing bolts (TB1008) and (HPTB1010).
- 9. Remove old roll and clean the bearing casting surface on the frame of the processor from debris.
- 10. Install new roll and use bearing housing bolts (TB1008) to align the bearing castings and torque to 18 ft/lbs. The drive side bearing casting will be locked in place so align the drive side bearing casting first. The idle side bearing casting will slide in the casting so the idle side bearing casting will be able to be slid into place and align with the bolt holes after the drive side is in place.
- 11. Install bearing housing bolts (HPTB1010) and torque to 170 ft/lbs.
- 12. Install oil fittings and oil lines as well at the temp. senders.
- 13. Close the processor and watch oil lines and wires so they don't get pinched between the two halves of the frame.
- 14. Tighten 1/2" hinge bolts (HPT1011) and torque to 70 ft/lbs.
- 15. Tighten latch block eye bolts (B1037) and torque to 65 ft/lbs.

Instructions for H.P.M. Bearing Removal and Installation

Bearing Removal

1. To disassemble housing, in order to remove bearing, remove the 4 bolts on housing as seen in Fig. 1A. Tap on feet of housing with a soft mallet to separate the two halves.

***Note: Keep the 2 halves of housing together as they are machined in pairs and are numbered accordingly.



2. To remove bearing, place the bearing removal tool(A1009) over bearing and shaft and remove bearing as shown in Fig. 2A (If there is a snap ring present, be sure to remove it prior to pulling bearing)

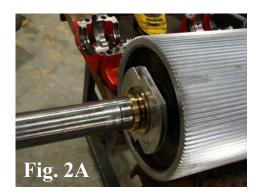


Bearing Installation

Please follow these instructions and SKF Bearing instructions to get the optimum performance from your bearings.

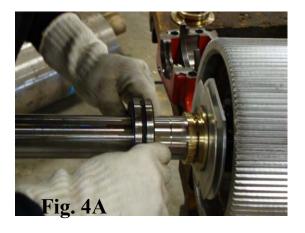
- 3. Slide on spool seal, hub side in. You can use a small amount of grease on shaft and be sure your spool seal is in good condition (See Fig. 1A).
- 4. Slide on 2 3/16" bearing housing seal, using grease and making sure 2 "O" rings are in place. (See Fig. 2A).





- 5. Heat bearing to 230 degrees F. (See Fig. 3A)
- 6. Slide bearing onto shaft all the way to the relief groove. If the bearing gets jammed, pull the bearing off again with the removal tool and re-heat the bearing. (See Fig. 4A)





Bearing Installation

- 7. Slide on 54 mm bearing housing seal. (Fig. 5A)
- 8. On short end you will not use an outside seal, as the housing end is closed as seen in 9B.



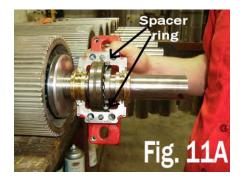




9. The housings are next. In <u>Drive End Housing</u>, place spacer ring in groove opposite of small alignment hole (See Fig. 9A). In <u>Short End Housing</u>, no spacer ring is required (See Fig. 9B). Install fiber oil seals as shown in Fig. 9A and Fig. 9B. **Install with marked side facing toward roll shaft.** Trim off any excess fiber material with utility knife.

Bearing Installation

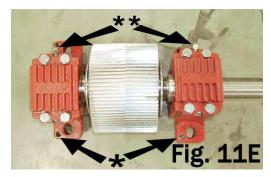
- 10. Bearing housings are machined as matched and numbered pairs. THE TOP AND BOTTOM OF HOUSING MUST HAVE THE SAME NUMBER.
- 11. Install lower housing. Install cap on lower housing by tapping in place with a soft mallet. (See Fig. 11A, 11B & 11E for drive end installation. See Fig. 11C, 11D & 11E for short end install.)











* With Drive End of shaft on right side, be sure alignment hole location corresponds with the location shown

- 12. Tighten bolts and check for free movement of bearing within the housing. After bolts are tight, on short shaft end, you should be able to slide the entire bearing housing in and out 3/8 of an inch by hand. **THIS MOVEMENT IS IMPORTANT.**
- 13. Fill bearing housing with 3 oz. of oil by using a squirt bottle, small funnel, 15 pumps with manual oiler, or whatever method you find suitable. Repeat this with all housings

Common Torque Specs

| Bearing Housing Bolt (HPTB1010) | 170 ft-lbs | 230 N-m |
|--|------------|---------|
| Bearing Housing Bolt (TB1008) | 12 ft-lbs | 16 N-m |
| Bearing Housing Bolt (R1230) | 75 ft-lbs | 100 N-m |
| Spring Rod (B1003) | 220 ft-lbs | 300 N-m |
| Spring Bolt (B1001) | 210 ft-lbs | 285 N-m |
| Latch Block Eye Bolt Nut (B1038) | 65 ft-lbs | 88 N-m |
| Hinge Bolt (HPT1011) | 70 ft-lbs | 95 N-m |
| Idler Pulley Bolt (D1326) | 80 ft-lbs | 108 N-m |
| Taper Locking Hub (HPR1001,HPR1016) _{Page 41} | 30 ft-lbs | 41 N-m |

Common H.D. Torque Specs

| Bearing Housing Bolt (TB1010) | 170 ft-lbs | 230 N-m |
|----------------------------------|------------|---------|
| Bearing Housing Bolt (TB1008) | 12 ft-lbs | 16 N-m |
| Bearing Housing Bolt (R1230) | 75 ft-lbs | 100 N-m |
| Spring Rod (B1003) | 220 ft-lbs | 300 N-m |
| Spring Bolt (B1001) | 210 ft-lbs | 285 N-m |
| Latch Block Eye Bolt Nut (B1038) | 65 ft-lbs | 88 N-m |
| Hinge Bolt (B1048) | 50 ft-lbs | 68 N-m |
| Idler Pulley Bolt (D1326) | 80 ft-lbs | 108 N-m |

Maintenance Intervals

1. After your Scherer Processor is installed

- -Set your roll gap (See roll gap adjustment on page 5)
 - -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 desired position. Check pulley alignment and make sure locking hubs are firmly in place.
 - -Check air tension on drive belt and set air pressure according to specific model.

6-groove drive: 80 to 85psi

7-groove drive: 90 to 95psi

2. 50 Hours

- -Grease adjustment bolt zerks on processor (2 pumps)
- -Grease lower idler bearings on drive system (D1338) and tensioner pulley (D1309) 2 pumps each.
- -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, this could be an indication of a bearing failure or other unknown problems. There is also a possibility that the rolls just need to be adjusted.

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 castings 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 castings 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, simply remove the old oil and replace the felt seals (HPR1009).
 - -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 3 oz. of fresh Chevron Cetus HyperSyn ISO 32 oil after they have been inspected or changed.
 - -Inspect spool seal (HPSR1011) for wear.

-Coalescing Filter

Inspect and/or replace filter element (hpd1411.1) after each season.

Scherer Sentry Operational Guidelines



- 1) The Sentry is set up to have 2 levels of alarm: warning and shutdown.
- 2) Warnings will only provide an amber light on the left corner of the display and an alarm screen with a description of the alarm.
 - **Warnings** bearing temps $> 180^{\circ}$ but $< 200^{\circ}$ F.
- 3) Shutdown alarms will provide an alarm screen with a description of the alarm, a red light at the top right corner of the display, and an audible alarm.

 Shutdown bearing temps > 200°F, oil alarm > 1 minute, system air pressure < 85 PSI.
- 4) To silence the audible alarm depress the lit button next to the horn on top of the display. The audible alarm will be silenced for 5 minutes. If another alarm comes in during the 5 minutes you will not receive another audible alarm.
- 5) To clear the alarm screen so you can resume monitoring bearing temps press the 'Enter' button on the display.
- 6) Normal operating range (after break-in) is 120°-175°F.
- **NOTE** The sentry will display a description screen for every warning or alarm received even if the issue has been resolved. If neither the amber nor red light on top of the Sentry is illuminated there is **no longer** an alarm situation. It makes you acknowledge the alarm screen so you know at one time there was an issue.

Scherer Design Engineering, Tea SD 1-800-883-9790

After hours: Bob 605-201-1926 Jim 605-940-6356 Jason 605-941-3458 Lyndon 605-941-0502

The initial start-up screen for the Scherer Sentry lists an after hour.

$\underline{TROUBLESHOOTING\ THE\ SCHERER\ SENTRY}^{\tiny TM}$

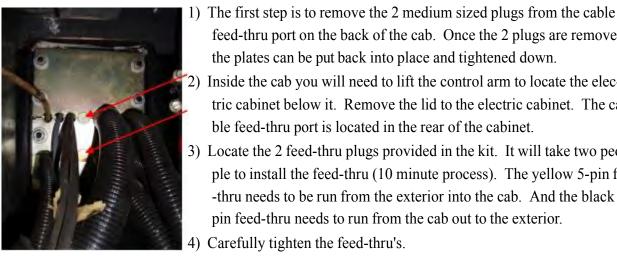
| Issue | Cause | Solution |
|---|--|--|
| Some bearing temps are reading NO DATA | Wire harness has a loose connection | Make sure all threaded connections (inside firewall, outside firewall, at the processor, and after the splitter) are finger tight. |
| Low air pressure alarm will not turn off | Too high of setting on air sensor or low system air pressure | Check system air pressure. With the actuator cylinder RETRACTED adjust the belt tensioning pressure up to 120 psi. If there is 120 PSI available the sensor needs adjustment, contact Scherer Design. A temporary fix is to unplug the sensor. |
| Running a new processor and the bearing temps are above normal operating temp | Bearings are breaking in | New processor bearings need to "break-in". Normal break-in temps may be up to 200°F. Within 30-40 hours bearing temps should return to normal operating range (120°-175°F). |
| Some bearing temps are reading NO DATA | Temp sender may be faulty or temp is above 275° | Replace temp sender if faulty. |
| Display reads "CAN BUS FAILURE" | Bad harness connection between display and XM 500 control module | The XM 500 is mounted in the cabinet under the arm rest. Make sure both plugs are firmly seated in the module. Next, access the back of the display and ensure the plug in firmly seated. If not resolved contact Scherer Design. |
| Display reads "0.00 H" | Display is set up as "1-up" display | Press 'Menu', scroll to highlight 'GO TO 4-UP DISPLAY', press 'Enter' |
| Display reads in Degrees F | Menu is set to English units | Press 'Menu', scroll down to highlight 'SELECT UNITS', press 'Enter', scroll to highlight your unit of measure, press 'Enter', press 'Menu' twice to return to 4-up display. |

Sentry Installation Instructions

1) Installing Feed-thru Plugs

feed-thru port on the back of the cab. Once the 2 plugs are removed

Exterior View



- - 2) Inside the cab you will need to lift the control arm to locate the electric cabinet below it. Remove the lid to the electric cabinet. The cable feed-thru port is located in the rear of the cabinet.

the plates can be put back into place and tightened down.

- 3) Locate the 2 feed-thru plugs provided in the kit. It will take two people to install the feed-thru (10 minute process). The yellow 5-pin feed -thru needs to be run from the exterior into the cab. And the black 8pin feed-thru needs to run from the cab out to the exterior.
- 4) Carefully tighten the feed-thru's.
- 5) Attach the splitter to the yellow 5-pin.
- 6) Secure the protective caps provided for the exterior connections.



Interior View

Feed Thru's installed







2) Installing XM 500 Module

- 1) Locate and clean the location for the XM 500 (module) next to the fuse box (pictured below). The plugs on the module need to face the rear of the chopper.
- 2) You may plug the harness in prior to mounting in place.
- 3) Mount module with supplied velcro.

Module mounted in cabinet





3) Installing display and wire harness

Pillar mount option



- 1) Decide if you would like to mount the display on the window with the suction mount or fixed onto the pillar.
- 2) For suction mount please refer to instructions provided with the mount for proper attachment. Attach the display to the suction base using the mounting arm. Alcohol wipes are included to clean the window prior to attaching.
- 3) For pillar mount first attach the 4 hole mounting base to the display with the mounting arm and choose the best location for your operation. Use the 4 hole mounting base as a template to mark out the location and attach the base with the provided screws. No pre-drilling is necessary.
- 4) Depending on mounting location choose the best routing to run the cable back to the power accessory ports. Adhesive backed cable clamps are provided to secure the cable along the pillar. Use alcohol wipes to clean surface before applying clamps.
- 5) Route the harness by running both the grey and black 12 pin connectors through the electric cabinet down to the XM 500 module.
- 6) Attach black and grey 12 pin connectors to their respective ports on the module. They are keyed to only install one way.
- 7) Attach the grey 5 pin and 8 pin cords to their respective feed-thru plugs.
- 8) Plug the power cord into the <u>switched</u> port on the back pillar of the cab
- 9) Run the display cable up the back pillar along with the power cord and replace the lid to the electrical cabinet.

Suction Mount



5 pin cable attached to feed-thru





4) Attach cords to sensors (exterior)

- 1) The Air monitoring cable (single plug) will attach to the 5-pin splitter (either port) on the firewall and terminate at the air pressure sensor on the Pneumatic belt tension system control. Be sure to secure the plug to the sensor with the screw to ensure connectivity.
- 2) The Oiler cable will attach to the other port on the 5-pin splitter and attach to the processor oiler. Be sure to secure the plug using the screws.
- 3) The Processor extension cable will attach to the 8-pin feed-thru on the firewall with the right-angled end terminating at the processor. Route wire in a secure path and keep in mind that the accellerator of the forage harvester will suck up any loose wires.
- 4) While the cord is attached to the processor mate the 2 protective caps together to reduce contamination.
- 5) Should you receive a reading of 1 degree for any bearing the system is not connected. Be sure all electrical connections are hand tight.



Operation Notes

- 1) When powered up the Sentry will automatically display the 4 temps from the processor bearings. If the display has been switched to another mode simply enter the menu by pressing the left button on the display and scroll to select "4-up display" and select using the right button.
- 2) The Sentry is set up to have 2 levels of alarm: warning and shutdown.
- 3) Warnings will only provide an amber light on the left corner of the display and an alarm screen with a description of the alarm. Warnings include: bearing temps > 180 but < 200 degrees F. (to switch to degrees Celsius enter the menu screen by pressing the left button, scroll down to "Select Units", press the right button, scroll down to "Metric BAR". Press the right button to select, then press the left button twice to exit.)
- 4) Shutdown alarms will provide an alarm screen with a description of the alarm, a red light at the top right corner of the display, and an audible alarm. Shutdown alarms include: bearing temps > 200 degrees F, oil alarm > 1 minute, system air pressure < 85 PSI.
- 5) To silence the audible alarm depress the lit button next to the horn on top of the display. The audible alarm will be silenced for 5 minutes. If another alarm comes in during that 5 minutes you will not receive another audible alarm.
- 6) To clear the alarm screen so you can resume monitoring bearing temps press the right button on the display.

Scherer Design Engineering, Tea SD 1-800-883-9790

After hours: Bob 605-201-1926 Jim 605-940-6356

Jason 605-941-3458 Lyndon 605-941-0502

The initial start-up screen for the Scherer Sentry lists an after hour.

LUBRIMIST INSTALL



- Place LubriMist oiler on the left side of the kernel processor compartment towards the front of the machine as shown.
 - Be sure to place the oiler far enough forward so it is out of the way so the large guard over the feed roll drive can still be removed.
 - This position of the oiler also allows for quick removal of the kernel processor through the top of the chopper.
- Drill four holes to mount the LubriMist to the wall. BE CAREFUL AND CONSCIOUS OF STEEL HYDRAULIC LINES BEHIND THIS WALL.

- Splice into the air line that feeds the air cylinder for the kernel processor drive belt. Use the "T" and air line provided.
- Connect oil hose on the kernel processor to the LubriMist.
- Remove plug from the front of the LubriMist reservoir and fill with oil.
- DO NOT OVERFILL!!!!!
- Overfilling will restrict the mist head and the system will not work properly.
- Start the forage harvester engine and allow the air system to charge.
- If the system is working properly, you will see what appears to be smoke or fog coming from the bearing housings and the bearing slides.
- Set the LubriMist regulator to 35 psi.

The regulator also has a water separator. This automatically drains itself periodically. The regulator will freeze and break if it is not drained at the end of season.

INSTALLATION AND REMOVAL INSTRUCTIONS FOR B-LOC™ LOCKING ASSEMBLY SERIES B106 & B103

Thank you for purchasing a **B-LOC™** Keyless Frictional Locking Device. **B-LOC™** keyless connectors 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.

(i) WARNING (i)

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

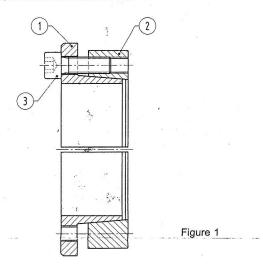
- Be sure that all power switches are locked out before installing or removing B-LOC™ products.
- Eye protection is required when installing or removing B-LOC™ products

 please wear safety glasses and protective clothing.

INSTALLATION

(Refer to Figure 1)

B-LOC™ Series B103 and B106 Locking Assemblies 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 <u>not</u> to use Molybdenum Disulfide (e.g., Molykote, Never-Seeze or similar lubricants) in any Locking Assembly installation.

- Make sure that locking screw, taper, shaft and bore contact areas are clean and lightly oiled and that all collar slits are aligned.
- 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).
- After inserting Locking Assembly into hub bore, relocate locking screws used for separating Parts 1 and 2.
- 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 counter clockwise 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 overtorque 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 overtorquing, an infinite number of passes would be needed to reach specified tightening torque.

 Reset torque wrench to specified torque (M_A) and check all locking screws. No screw should turn at this point, otherwise repeat Step 6 for 1 or 2 more passes. It is not necessary to re-check tightening torque after equipment has been in operation.

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

INSTALLATION OF B-LOC™ LOCKING ASSEMBLIES OVER SHAFT KEYWAYS

The Locking Assembly should be positioned so that slits in Locking Assembly 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 Locking Assembly collars. Even after 1/4 turns can no longer be achieved, it is important to continue to use equal turning angles for every screw until the specified tightening torque is reached.

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 Locking Assembly, shaft or any mounted components.

IMPORTANT! Make sure ends of locking screws used for removal are ground flat and are slightly chamfered to prevent damage to screw and collar threads during push-off.

- 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.
- Relax all locking screws by approx. four (4) complete turns and transfer screws to all pushoff threads located in flange of collar Item 1.
- Release connection by evenly tightening all push-off screws (not exceeding 1/4 turns) in a diametrically opposite sequence.

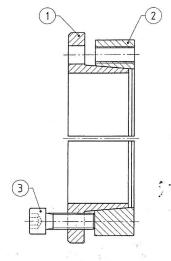
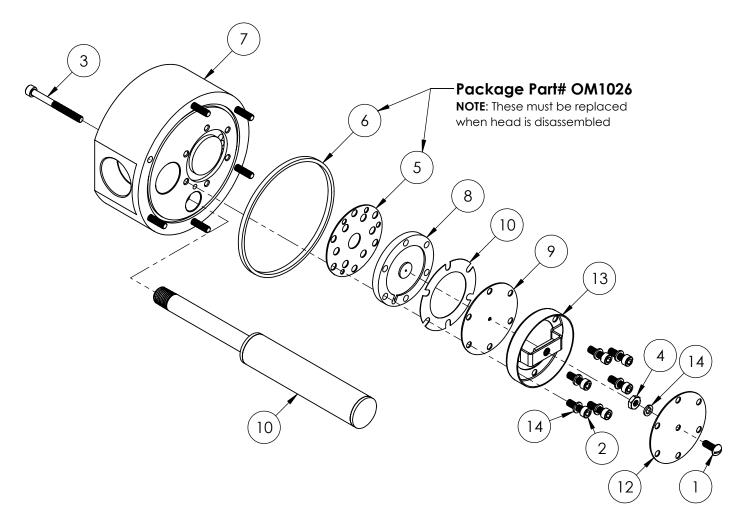


Figure 2

| Metric Series | | Inch Series | | Tightening Torque M _A (ft-lbs) | | Screw Size | Hex Key Size (mm) | | | |
|---------------|-------|-------------|-----|---|----|---------------|----------------------------|------|------|----------|
| | | | | | | | B106 | B103 | | (111111) |
| 20 x · 4 | 7 to | 40 x | 65 | 3/4 | to | 1-1/2 | 12 | 10 | -M 6 | 5 |
| 45 x 7 | 5 to | 65 x | 95 | 1-5/8 | to | 2-9/16 | 30 | 25 | M 8 | 6 |
| 70 x 1 | 10 to | 95 x | 135 | 2-11/16 | to | 3-3/4 | 60 | 50 | M 10 | 8 |
| 100 x 1 | 45 to | 120 x | 165 | 3-15/16 | to | 4-3/4 | 105 | 90 | M12 | 10 |
| 130 x 18 | 80 to | 200 x | 260 | 4-15/16 | to | 8 | 166 | 135 | M 14 | 12 |
| 220 x 28 | 85 to | 260 x | 325 | | | | 257 | 219 | M 16 | 14 |
| 280 x 3 | 55 to | 300 x | 375 | | | | 350 | 290 | M 18 | 14 |
| 320 x 40 | 05 to | 340 x | 425 | | | | 500 | 420 | M 20 | 17 |
| 360 x 45 | 55 to | 400 x | 495 | | | | 675 | 560 | M 22 | 17 |

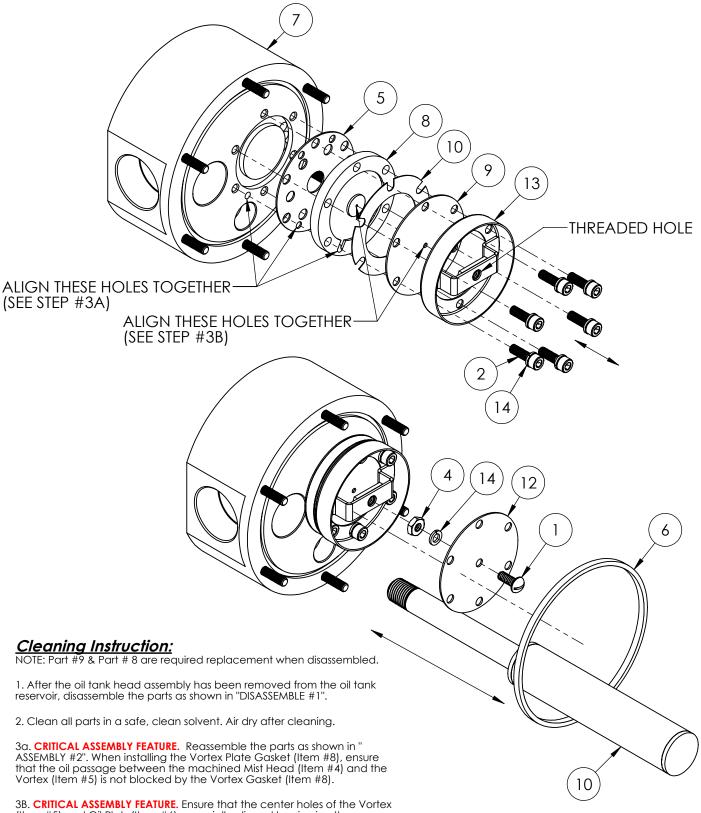
SCHERER OIL TANK HEAD ASSEMBLY

COMPLETE ASSEMBLY: PART# OM2000



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-----------------------|------|
| 1 | BLT10044 | MACHINE SCREW | 1 |
| 2 | BLT10045 | SOCKET HEAD CAP SCREW | 6 |
| 3 | BLT10048 | SOCKET HEAD CAP SCREW | 6 |
| 4 | NUT10011 | MACHINE HEX NUT | 1 |
| 5 | OM1026.1 | VORTEX PLATE GASKET | 1 |
| 6 | OM1026.2 | HEAD GASKET | 1 |
| 7 | OM2001 | MIST HEAD | 1 |
| 8 | OM2002 | VORTEX PLATE | 1 |
| 9 | OM2003 | MISTER OIL PLATE | 1 |
| 10 | OM2004 | OIL PLATE SPACER | 1 |
| 10 | OM2007 | SIPHON TUBE | 1 |
| 12 | OM2008 | IMPINGEMENT PLATE | 1 |
| 13 | OM2009 | BAFFLE ASSEMBLY | 1 |
| 14 | WSH10006 | LOCK WASHER | 7 |

SCHERER OIL TANK HEAD CLEANING



- 3B. CRITICAL ASSEMBLY FEATURE. Ensure that the center holes of the Vortex (Item #5) and Oil Plate(Item #6) are axially aligned by viewing them through the threaded hole of Baffle Assembly (Item #12).
- 4. Once the assembly is aligned, torque the 6 screws (Item #2) to 22 in-lbs.
- 5. Install the Impingement Plate (Item #11) as shown in "ASSEMBLY #3".
- 6. Install Head Gasket (Item #2) when installing the Mist Head onto the oil reservoir.