

USER MANUAL HOSE CONTAINMENT SYSTEM (HCS-2L-XX) FOR USE WITH THE ABX-2L

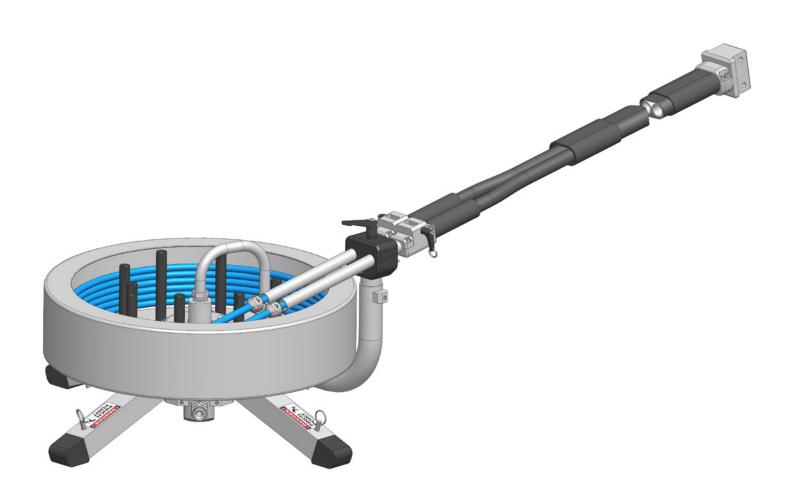


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MANUFACTURER'S INFORMATION

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Andrew Birt Consulting Ltd.

UK

This manual must be used in accordance with all applicable national laws. The manual shall be regarded as a part of the machine and shall be kept for reference until the final dismantling of the machine, as defined by applicable national law(s).

SPECIFICATIONS HOSE CONTAINMENT SYSTEM (HCS-2L-XX)

Assembly Weight (Less Snout & Hoses): Snout Weight:

Maximum Hose Bend Radius: Maximum Hose Length:

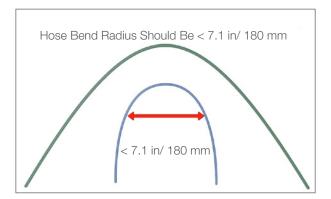
Two 6/4hoses:

42 lbs (19 kg) 11.5 lbs (5.2 kg)

7.1 in. (180 mm)

84 ft (26 m)

NOTE: Use of stiffer hose is not recommended and will result in additional drag on the AUTOBOX® ABX-2L and slower feed speeds. The graph below depicts the proper hose bend radius.



DESCRIPTION OF EQUIPMENT AND INTENDED USE

The Hose Containment System (HCS-2L-XX), is a lightweight accessory for the AUTOBOX® ABX-2L, which contains and securely stores hoses typically used for heat exchanger tube cleaning.

The Hose Containment System (HCS-2L-XX) is a simple system to setup and operate, and greatly increases job site safety by eliminating the potential for high pressure hoses to snag on structure, valves, or other objects.

It also increases hose life by reducing wear and makes it easy to store and transport hoses between jobs.

KEY FEATURES

- Max Storage: Two 6/4, 84 ft (26 m) long hoses.
- Includes 90 in. (228 cm) snout.
- 22k psi (1500 bar) max pressure.
- Built-in backout prevention for improved job site safety.
- Keeps job site clear of trip hazards.
- Helps manage hoses for easy transport and storage.
- Comes in two basic models the North American model is supplied with 'Type M' fittings, and the European model is supplied with metric and BSPP fittings.

WARNING AND SAFETY INSTRUCTIONS

OPERATOR TRAINING

Managers, Supervisors, and Operators MUST be trained in Health and Safety Awareness of High-pressure Water Jetting and hold a copy of the Water Jetting Association (WJA) Code of Practice, or equivalent (see www.waterjetting.org.uk).

Operators MUST be trained to identify and understand all applicable standards for the equipment supplied. Operators should be trained in manual handling techniques to prevent bodily injury.

Operators MUST read, understand, and follow the Operational and Training Requirements (Section 7.0) of WJTA-IMCA's Recommended Practices For The Use Of High-pressure Waterjetting Equipment, or equivalent.

Operators MUST read, understand and follow the Warnings, Safety Information, Assembly, Installation, Connection, Operation, Transport, Handling, Storage, and Maintenance Instructions detailed in this manual.

StoneAge has designed and manufactured this equipment considering all hazards associated with its operation. StoneAge assessed these risks and incorporated safety features in the design. StoneAge **WILL NOT** accept responsibility for the results of misuse.

IT IS THE RESPONSIBILITY OF THE INSTALLER/OPERATOR

to conduct a job specific risk assessment prior to use. Job specific risk assessment MUST be repeated for each different set up, material, and location.

The risk assessment MUST conform to the Health and Safety at Work Act 1974 and other relevant Health and Safety legislation.

The risk assessment MUST consider potential material or substance hazards including:

- Aerosols
- Biological and microbiological (viral or bacterial) agents
- · Combustible materials
- Dusts
- Explosion
- Fibers
- · Flammable substances
- Fluids
- Fumes
- Gases
- Mists
- Oxidizing Agents

PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

Use of Personal Protective Equipment (PPE) is dependent on the working pressure of water and the cleaning application. Managers, Supervisors, and Operators MUST carry out a job specific risk assessment to define the exact requirements for PPE. See Protective Equipment for Personnel (Section 6) of WJTA-IMCA's Recommended Practices For The Use Of High-pressure Waterjetting Equipment for additional information.

Hygiene - Operators are advised to wash thoroughly after all waterjetting operations to remove any waterblast residue which may contain traces of harmful substances.

First aid provision - users MUST be provided with suitable first aid facilities at the operation site.

PPE may include:

- Eye protection: Full face visor
- Foot protection: Kevlar® brand or steel toe capped, waterproof, non-slip safety boots
- Hand protection: Waterproof gloves
- Ear protection: Ear protection for a minimum of 85 dBA
- Head protection: Hard hat that accepts a full face visor and ear protection
- Body protection: Multi-layer waterproof clothing approved for waterjetting
- Hose protection: Hose shroud
- Respiratory protection: May be required; refer to job specific risk assessment

WARNING AND SAFETY INSTRUCTIONS

AWARNING

Operations with this equipment can be potentially hazardous. Caution MUST be exercised prior to and during machine and water jet tool use. Please read and follow all of these instructions, in addition to the guidelines in the WJTA Recommended Practices handbook, available online at www.wjta.org. Deviating from safety instructions and recommended practices can lead to severe injury and/or death.

- Do not exceed the maximum operating pressure specified for any component in a system.
- The immediate work area MUST be marked off to keep out untrained persons.
- Inspect the equipment for visible signs of deterioration, damage, and improper assembly. Do not operate if damaged or improperly assembled, until repaired.
- · Make sure all threaded connections are tight and free of leaks.
- Users of the Hose Containment System (HCS-2L-XX) MUST be trained and/or experienced in the use and application of high-pressure technology and cleaning, as well as all associated safety measures, according to the WJTA Recommended Practices for the use of High-pressure Waterjetting Equipment.
- The Control Box should be located in a safe location where the Operator has good visibility of the pipe and hose. The Hose Containment System (HCS-2L-XX) and Control Box MUST be supervised at all times and should never be left unattended.
- Always de-energize the system before servicing or replacing any parts. Failure to do so can result in severe injury and/or death.

PRE-RUN SAFETY CHECK

Refer to WJTA-IMCA's, Recommended Practices For The Use Of High-pressure Waterjetting Equipment and/or The Water Jetting Association's, WJA Code of Practice for additional safety information.

- Complete a job specific risk assessment and act on the resulting actions.
- · Adhere to all site specific safety procedures.
- Ensure the waterblasting zone is properly barricaded and that warning signs are posted.
- Ensure the work place is free of unnecessary objects (e.g. loose parts, hoses, tools).
- Ensure all Operators are using the correct Personal Protective Equipment (PPE).
- Check that the air hoses are properly connected and tight.
- Check all hoses and accessories for damage prior to use. Do not use damaged items. Only high quality hoses intended for waterblast applications should be used as high-pressure hoses.
- · Check all high-pressure threaded connections for tightness.
- **Ensure that an anti-withdrawal device (back-out preventer), and all other applicable safety devices are installed on the equipment being used with the Hose Containment System (HCS-2L-XX) and set-up properly.**
- Test the Control Box before operating the Hose Containment System (HCS-2L-XX) with high-pressure water to verify the control valves move the hose in the intended direction, and that the dump valve and hose clamp are working properly.
- Ensure that Operators never connect, disconnect, or tighten hoses, adapters, or accessories with the high-pressure water pump unit running.
- Ensure no personnel are in the hydroblasting zone.

HIGH-PRESSURE HOSE

The Hose Containment System (HCS-2L-XX) is designed to be used with Parker Pro-Lance $^{\mathbb{R}}$ and/or Spir Star Blast-Pro $^{\mathbb{R}}$ hose ends. Standard hose ends may not fit into the AUTOBOX $^{\mathbb{R}}$ (ABX-2L-V2) Hose Tractor and/or Guide Tubes.

Note: MAXIMUM hose end diameter must NOT exceed .71 in. (18 mm)

- Only high quality hoses intended for waterblast applications should be used as high-pressure hoses. Pressure rating of high-pressure hoses
 MUST NEVER be exceeded.
- Verify that the high-pressure hose is properly installed in the back-out preventer. Operate the high-pressure hose and waterjet tool at full
 pressure to test the clamp force. Proper clamp force will provide good control of the hose in forward and reverse directions, and keep the hose
 running through the Drive Rollers.

NOTICE

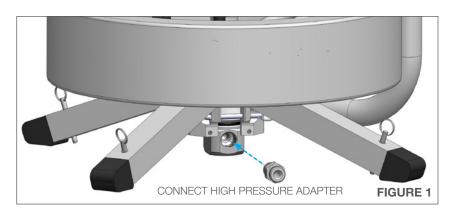
Do not use a shrouded hose or hose with a steel protective cover. This will cause severe damage to the Drive Rollers on the AUTOBOX® (ABX-2L-V2) Hose Tractor.

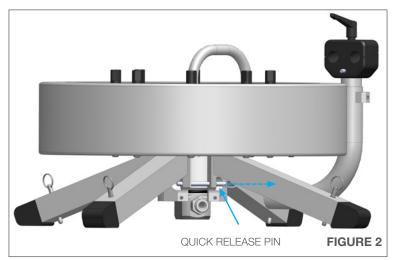
HOSE CONTAINMENT SYSTEM (HCS-2L-XX) AF 061-MP6 ADAPTER .75 TYPE M TO MP6 HCS 209 HCS 204-TM12TM12 HOSE DRUM SPIRSTAR STUB **ASSEMBLY** HOSES COLLET **BLOCKS** FITTINGS ARE BASED ON THE STANDARD OR METRIC ASSEMBLY FF 101-84 FIN FAN SPRING SNOUT **ASSEMBLY** HCS 202 MANIFOLD **TOP VIEW** HCS 211 SNOUT BLOCK SUPPORT ABX 119-12 GUIDE TUBES HCS 212 WELDMENT BASE FRAME SG-MP12K-62-90 HCS 218 SWIVEL QUICK RELEASE PIN FOR FOOT BASE **SIDE VIEW**

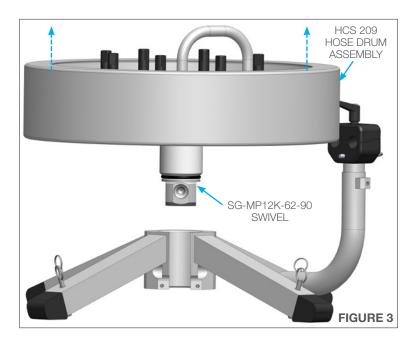
SWIVEL ADAPTER CONNECTION AT MAIN WATER INLET

The Hose Containment System (HCS-2L-XX) comes with a high pressure adapter installed at the swivel. Be sure it is installed securely. If replacement is necessary, install the high pressure adapter with Swagelok Blue Goop®, or equivalent (Figure 1).

When the swivel needs to be removed for maintenance, access is easy by pulling the quick release pin and lifting the drum off the base (Figures 2 & 3).





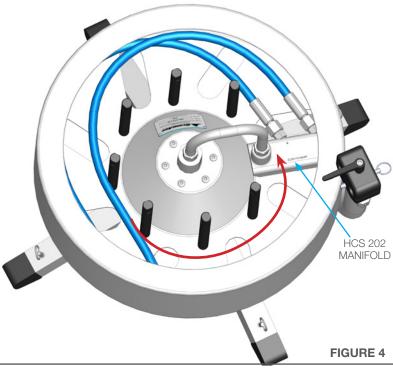


ASSEMBLY, INSTALLATION, AND CONNECTION

CONNECTING HOSE TO DRUM WITHOUT STUB HOSES

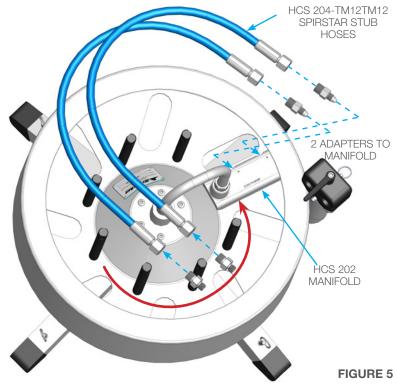
This method is for connecting high pressure hoses directly to the HCS 202 Manifold without using the provided stub hoses.

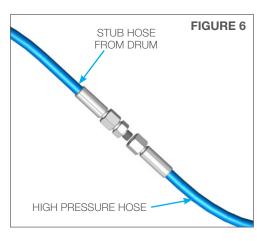
1. Thread the high pressure hoses onto the HCS 202 Manifold and wrap the remainder of the hoses around the rods, in the direction of the red arrow (**Figure 4**).



INSTALLING ADAPTER AND STUB HOSE CONNECTIONS TO DRUM

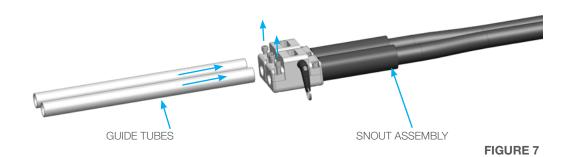
- 1. Thread one pair of hose adapters into the HCS 202 Manifold and the other pair onto the ends of the stub hoses. Thread the female stub hose ends onto the adapters that are installed in the manifold. **(Figure 5)**
- 2. Thread the high pressure hoses onto the ends of the stub hoses (Figure 6) and continue to wrap the remainder around the rods, in the direction of the red arrow. (Figure 5)



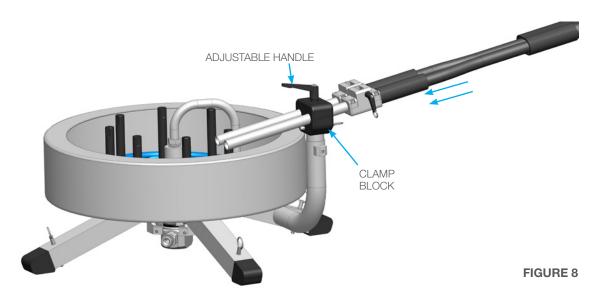


ATTACHING SNOUT ASSEMBLY AND GUIDE TUBES TO DRUM

1. Loosen the Allen screws and slide the guide tubes into the snout block until they stop. Tighten the Allen screws and pull on the guide tubes to make sure they are secured **(Figure 7)**.

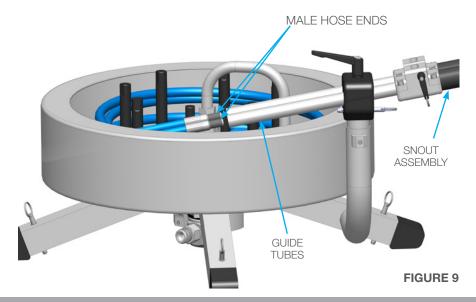


2. Loosen the Adjustable Handle on the Clamp Block and insert the Guide Tubes. Hand tighten the Adjustable Handle (Figure 8).



INSERTING HOSES INTO GUIDE TUBES AND SNOUT ASSEMBLY

1. Feed the hoses into the Guide Tubes and the Snout. (Figure 9).



ASSEMBLY, INSTALLATION, AND CONNECTION

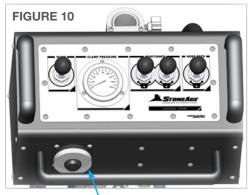
CONNECT SNOUT AND FEED HOSES THROUGH AUTOBOX® ABX-2L

1. The hose clamp pressure regulator on the Control Box MUST be turned to zero pressure to open the drive rollers for easy hose installation. (Figure 10) Insert the hose into the AUTOBOX® ABX-2L and attach the Snout using the two quick release pins on the AUTOBOX® ABX-2L mount. (Figure 11) Increase the pressure on the hose clamp pressure regulator to increase clamp force of the drive rollers and secure the hose. Close and lock the door before operating the AUTOBOX® (ABX-2L-V2). (Figure 12)

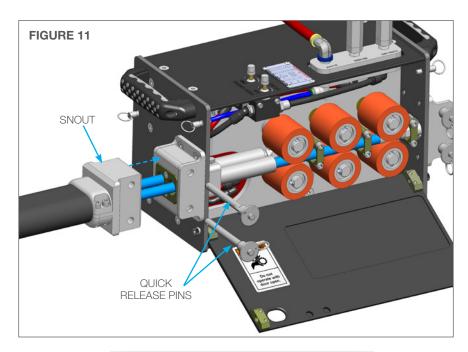
AWARNING

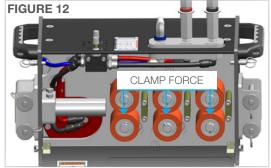
Do not fully release the hose clamp (decreasing pressure to zero) during operation, or the AUTOBOX® (ABX-2L-V2) will release the hose and may create a dangerous runaway hose condition, which can result in severe injury and/or death.

Crush Hazard. Keep hands, hair, and clothing clear of drive rollers and belts. Contact with moving parts can result in severe injury.



HOSE CLAMP PRESSURE REGULATOR

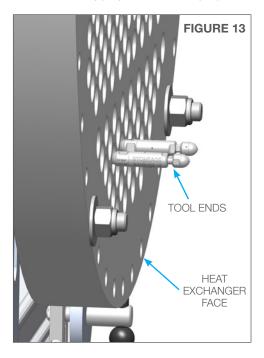


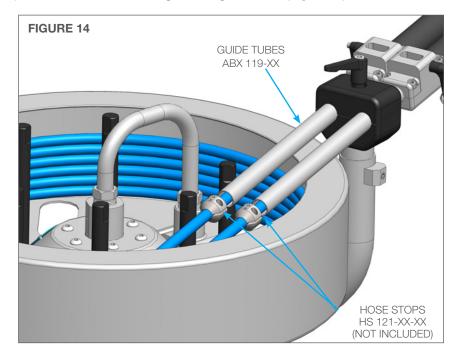


ASSEMBLY, INSTALLATION, AND CONNECTION

CONNECT HOSE STOPS TO HOSES

- 1. Attach the tools to end of the lances and run them down until they reach the far end of the heat exchanger. (Figure 13)
- 2. Install the appropriate Hose Stops (NOT INCLUDED) onto the hoses and locate against the guide tubes. (Figure 14)





OPERATION

SNOUT

Arrange the SNOUT to keep the curvature of the hose as gradual as possible to decrease wear on the hose and reduce drag on the AUTO-BOX® (ABX-2L-V2) motor.

WATER CONNECTION

· Connect your high pressure water hose to the inlet swivel on the Hose Containment System (HCS-2L-XX).

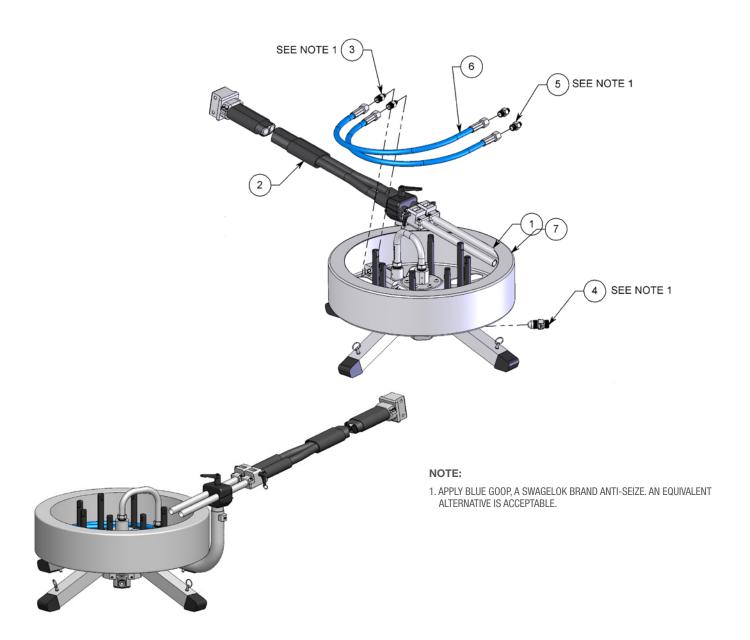
Once set up, the operation of the Hose Containment System (HCS-2L-XX) is automatic. It is driven by the feed power of the AUTOBOX® (ABX-2L-V2) to coil and uncoil hoses inside the drum.

MAINTENANCE

Maintenance Item	Maintenance Required
Swivel	Grease the swivel after every 100 hours of use
High Pressure Seals	Deplace when high pressure each begin to leak
High Pressure Seals	Replace when high pressure seals begin to leak.

NORTH AMERICAN HOSE CONTAINMENT SYSTEM (HCS-2L-TM16)

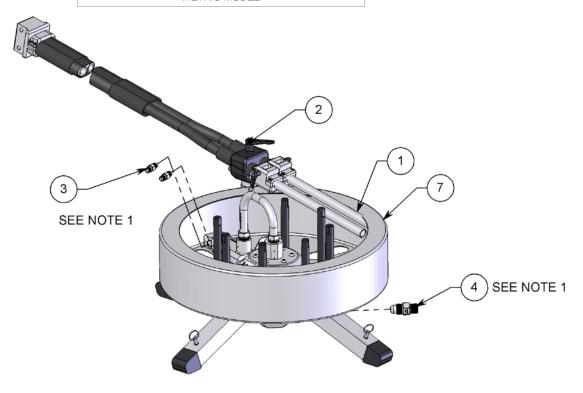
STANDARD MODEL



#	PART NUMBER	QTY.
1	ABX 119-XX GUIDE TUBE, .745 ID	2
2	FF 101-XX FIN FAN SPRING SNOUT ASSY	1
3	AF 061-MP6 ADAPTER .75 TYPE M TO MP6	2
4	AF 063-MP12 ADAPTER 1.00 TYPE M TO MP12	1
5	AF 060-061 ADAPTER .56 TYPE M TO .75 TYPE M	2
6	HCS 204-TM12TM12 SPIRSTAR STUB HOSE	2
7	HCS-2L.1 DRUM AND FRAME ASSY	1

EUROPEAN HOSE CONTAINMENT SYSTEM (HCS-2L-M24)

METRIC MODEL

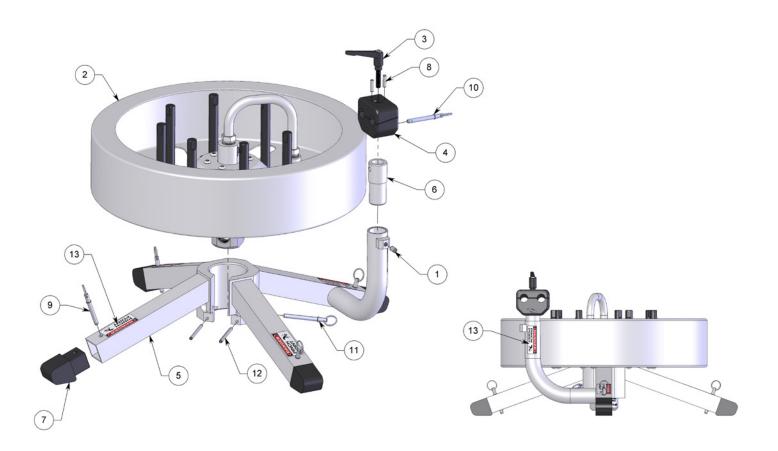




#	PART NUMBER	QTY.
1	ABX 119-XX GUIDE TUBE, .745 ID	2
2	FF 101-XX FIN FAN SPRING SNOUT ASSY	1
3	GP 255-MP6BSPP4C ADAPTER	2
4	GP 255-MP12M24C ADAPTER	1
7	HCS-2L.1 DRUM AND FRAME ASSY	1

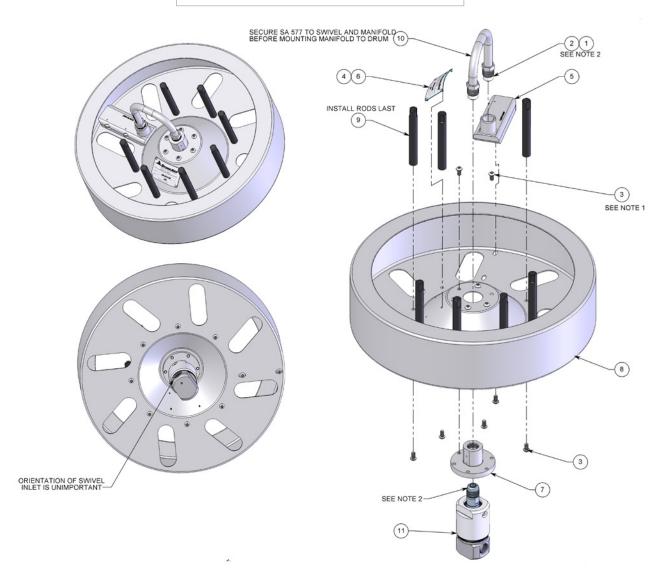
HOSE CONTAINMENT SYSTEM

(HCS-2L.1) DRUM AND FRAME ASSEMBLY



#	PART NUMBER	QTY.
1	GSS 337-16-62CU SET SCREW	1
2	HCS 209 DRUM ASSY	1
3	HCS 210 ADJUSTABLE HANDLE	1
4	HCS 211 BLOCK, SNOUT SUPPORT	1
5	HCS 212 WELDMENT, BASE FRAME	1
6	HCS 213 TUBE, SNOUT SUPPORT INNER	1
7	HCS 214 INSERT, LEG	4
8	HCS 215 DOWEL PIN .25 X 1.00	2
9	HCS 216 PIN, QUICK RELEASE .3120D X 1.75 LONG BALL DETENT	4
10	HCS 217 PIN, QUICK RELEASE .3120D X 2.00 LONG BALL DETENT	1
11	HCS 218 PIN, QUICK RELEASE .3120D X 2.50 LONG BALL DETENT	1
12	HCS 219 SPRING PIN, COILED .250D X 3.00	2
13	PL 160 PINCH POINT 1.5 X 3.0 DECAL	5

HCS 209 DRUM ASSEMBLY



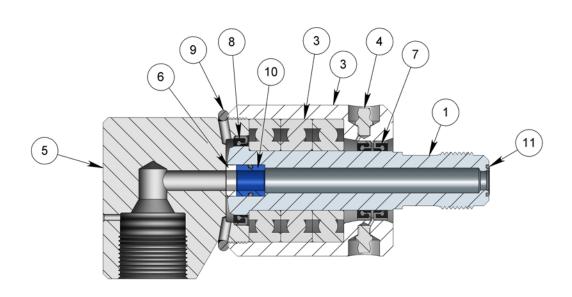
NOTE:

- 1. APPLY BLUE LOCTITE: PN 242 OR EQUIVALENT TO ALL THREADED HARDWARE.
- 2. APPLY BLUE GOOP, A SWAGELOK BRAND ANTI-SEIZE. AN EQUIVALENT ALTERNATIVE IS ACCEPTABLE.

#	PART NUMBER	QTY.
1	AF 070-MP12 GLAND	2
2	AF 071-MP12 COLLAR .75 MP	2
3	GSB 331-025 BHCS .31-18 X .62 LG SS	15
4	HCS 201 RIVET .125X .337	4
5	HCS 202 MANIFOLD, DRUM	1
6	HCS 203 SERIAL PLAQUE	1
7	HCS 205 DRIVE COUPLING, KMP12	1
8	HCS 206 HOSE DRUM	1
9	HCS 207 ROD, INNER DRUM	7
10	SA 577-MP12LMP12L-14.07-180	1
11	SG-MP12K-62-90 SWIVEL	1

SG-MP16K-62-90 SG SWIVEL





#	PART NUMBER	QTY.
1	SG 001-K-62 SHAFT	1
2	SG 009 BEARING (6206)	3
3	SG 003 BODY	1
4	FS 004-0 ZERK, STRAIGHT	2
5	SG 002-MP16-62-90 NUT	1
6	MJ 011-C SEAT, CARBIDE	1
7	SG 006 SEAL, SMALL	2
8	SG 007 SEAL, LARGE	1
9	SG 008 0-RING	1
10	HC 012-TO HP SEAL, ORING	1
11	FS 021-K 0-RING	1

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TERMS AND CONDITIONS

1. Acceptance of Terms and Conditions. Receipt of these Terms and Conditions of Sale ("Terms and Conditions") shall operate as the acceptance by StoneAge, Inc. ("Seller") of the order submitted by the purchaser ("Buyer"). Such acceptance is made expressly conditional on assent by Buyer to these Terms and Conditions. Such assent shall be deemed to have been given unless written notice of objection to any of these Terms and Conditions (including inconsistencies between Buyer's purchase order and this acceptance) is given by Buyer to Seller promptly on receipt hereof.

Seller desires to provide Buyer with prompt and efficient service. However, to individually negotiate the terms of each sales contract would substantially impair Seller's ability to provide such service. Accordingly, the product(s) furnished by Seller are sold only according to the terms and conditions stated herein and with the terms and conditions stated in any effective StoneAge Dealer Agreement or StoneAge Reseller Agreement, if applicable. Notwithstanding any terms and conditions on Buyer's order, Seller's performance of any contract is expressly made conditional on Buyer's agreement to these Terms and Conditions unless otherwise specifically agreed to in writing by Seller. In the absence of such agreement, commencement of performance, shipment and/or delivery shall be for Buyer's convenience only and shall not be deemed or construed to be an acceptance of Buyer's terms and conditions.

- 2. Payment/Prices. Unless other arrangements have been made in writing between Seller and Buyer, payment for the product(s) shall be made upon receipt of invoice. The prices shown on the face hereof are those currently in effect. Prices invoiced shall be per price list in effect at the time of shipment. Prices are subject to increase for inclusion of any and all taxes which are applicable and which arise from the sale, delivery or use of the product(s), and the collection of which Seller is or may be responsible to provide to any governmental authority, unless acceptable exemption certificates are provided by Buyer in accordance with applicable law. Buyer shall pay all charges for transportation and delivery and all excise, order, occupation, use or similar taxes, duties, levies, charges or surcharges applicable to the product(s) being purchased, whether now in effect or hereafter imposed by any governmental authority, foreign or domestic.
- 3. Warranty. SELLER MAKES NO WARRANTIES OR REPRESENTATIONS AS TO THE PERFORMANCE OF ANY PRODUCT EXCEPT AS SET FORTH IN THE STONEAGE LIMITED WARRANTY PROVIDED WITH THE PRODUCT.
- 4. **Delivery.** Seller is not obligated to make delivery by a specified date, but will always use its best efforts to make delivery within the time requested. The proposed shipment date is an estimate. Seller will notify Buyer promptly of any material delay and will specify the revised delivery date as soon as practicable. UNDER NO CIRCUMSTANCES SHALL SELLER HAVE ANY LIABILITY WHATSOEVER FOR LOSS OF USE OR FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM DELAY REGARDLESS OF THE REASON(S).

All product(s) will be shipped F.O.B. point of origin, unless specifically agreed otherwise, and Buyer shall pay all shipping costs and insurance costs from that point. Seller, in its sole discretion, will determine and arrange the means and manner of transportation of the product(s). Buyer shall bear all risk of loss commencing with the shipment or distribution of the product(s) from Seller's warehouse. Order shortages or errors must be reported within fifteen (15) business days from receipt of shipment to secure adjustment. No product(s) may be returned without securing written approval from Seller.

5. **Modification.** These Terms and Conditions are intended by Seller and Buyer to constitute a final, complete and exclusive expression of agreement relating to the subject matter hereof and cannot be supplemented or amended without Seller's prior written approval.

- 6. **Omission.** Seller's waiver of any breach or Seller's failure to enforce any of these Terms and Conditions at any time, shall not in any way affect, limit or waive Seller's right thereafter to enforce and compel strict compliance with every term and condition hereof.
- 7. **Severability.** If any provision of these Terms and Conditions is held to be invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of the other portions hereof.
- 8. Disputes. Seller and Buyer shall attempt in good faith to promptly resolve any dispute arising under these Terms and Conditions by negotiations between representatives who have authority to settle the controversy. If unsuccessful, Seller and Buyer shall further attempt in good faith to settle the dispute by nonbinding third-party mediation, with fees and expenses of such mediation apportioned equally to each side. Any dispute not so resolved by negotiation or mediation may then be submitted to a court of competent jurisdiction in accordance with the terms hereof. These procedures are the exclusive procedures for the resolution of all such disputes between the Seller and Buyer.
- 9. **Governing Law.** All sales, agreements for sale, offers to sell, proposals, acknowledgments and contracts of sale, including, but not limited to, purchase orders accepted by Seller, shall be considered a contract under the laws of the State of Colorado and the rights and duties of all persons, and the construction and effect of all provisions hereof shall be governed by and construed according to the laws of such state.
- 10. Jurisdiction and Venue. Seller and Buyer agree that the state or federal courts located within the City and County of Denver, Colorado shall have sole and exclusive jurisdiction over any litigation concerning any dispute arising under these Terms and Conditions not otherwise resolved pursuant to Section 9 as well as any alleged defects of any Products or damages sustained as a result of such alleged defects. Seller and Buyer further agree that should any litigation be commenced in connection with such a dispute, it shall only be commenced in such courts. Seller and Buyer agree to the exclusive jurisdiction of such courts and neither will raise any objection to the jurisdiction and venue of such courts, including as a result of inconvenience.
- 11. Attorney's Fees. If any litigation is commenced between Seller and Buyer, or their personal representatives, concerning any provision hereof, the party prevailing in the litigation shall be entitled, in addition to such other relief that is granted, to a reasonable sum as and for their attorneys' fees and costs in such litigation or mediation.

STONEAGE TRADEMARK LIST

View the list of StoneAge's trademarks and service marks and learn how the trademarks should be used. Use of StoneAge trademarks may be prohibited, unless expressly authorized.

http://www.StoneAgetools.com/trademark-list/

STONEAGE PATENT DATA

View the list of StoneAge's current U.S. patent numbers and descriptions.

http://www.sapatents.com

STONEAGE TERMS AND WARRANTY

View StoneAge's Terms and Warranty Conditions online.

http://www.stoneagetools.com/terms

http://www.stoneagetools.com/warranty

Warranties set forth herein extend only to End-Users, meaning customers acquiring, or that have previously acquired, a product manufactured by StoneAge ("Product") for their own use and not for resale, either directly from StoneAge Inc. ("StoneAge") or from a StoneAge Authorized Dealer or Reseller ("Dealer"). No warranty of any kind or nature is made by StoneAge beyond those expressly stated herein.

- 1. **LIMITED WARRANTY PERIOD.** Subject to the limitations and conditions hereinafter set forth, StoneAge warrants its Product to be free from defects in workmanship and material for a period of one (1) year from the date of purchase by the End-User, provided that the end of the limited warranty period shall not be later than eighteen (18) months from the date of shipment of the Product to the Dealer or the End-User by StoneAge ("Limited Warranty Period"). All replacement parts which are furnished under this Limited Warranty and properly installed shall be warranted to the same extent as the original Product under this Limited Warranty if, and only if, the original parts were found to be defective within the original Limited Warranty Period covering the original Limited Warranty Period. This Limited Warranty does not cover any component part of any Product not manufactured by StoneAge. Any such component part is subject exclusively to the component manufacturer's warranty terms and conditions.
- 2. **LIMITED WARRANTY COVERAGE.** StoneAge's sole obligation under this Limited Warranty shall be, at StoneAge's option and upon StoneAge's inspection, to repair, replace or issue a credit for any Product which is determined by StoneAge to be defective in material or workmanship. StoneAge reserves the right to examine the alleged defective Product to determine whether this Limited Warranty is applicable, and final determination of limited warranty coverage lies solely with StoneAge. No statement or recommendation made by a StoneAge representative, Dealer or agent to End-User shall constitute a warranty by StoneAge or a waiver or modification to any of the provisions hereof or create any liability for StoneAge.
- 3. WARRANTY SERVICE PROVIDERS. Service and repair of the Product is to be performed only by StoneAge authorized service representatives, including Dealers who are authorized repair centers, with StoneAge approved parts. Information about StoneAge authorized service representatives can be obtained through the StoneAge website at www.stoneagetools.com/service. Unauthorized service, repair or modification of the Product or use of parts not approved by StoneAge will void this Limited Warranty. StoneAge reserves the right to change or improve the material and design of the Product at any time without notice to End-User, and StoneAge is not obligated to make the same improvements during warranty service to any Product previously manufactured.
- 4. WARRANTY EXCLUSIONS. This Limited Warranty does not cover, and StoneAge shall not be responsible for the following, or damage caused by the following: (1) any Product that has been altered or modified in any way not approved by StoneAge in advance in writing; (2) any Product that has been operated under more severe conditions or beyond the rated capacity specified for that Product; (3) depreciation or damage caused by normal wear and tear, failure to follow operation or installation instructions, misuse, negligence or lack of proper protection during storage; (4) exposure to fire, moisture, water intrusion, electrical stress, insects, explosions, extraordinary weather and/or environmental conditions including, but not limited to lightning, natural disasters, storms, windstorms, hail, earthquakes, acts of God or any other force majeure event; (5) damage to any Product caused by any attempt to repair, replace, or service the Product by persons other than StoneAge authorized service representatives; (6) costs of normal maintenance parts and services; (7) damage sustained during unloading, shipment or transit of the Product; or (8) failure to perform the recommended periodic maintenance procedures listed in the Operator's Manual accompanying the Product.
- 5. **REQUIRED WARRANTY PROCEDURES.** To be eligible for warranty service, the End-User must: (1) report the Product defect to the entity where the Product was purchased (i.e. StoneAge or the Dealer) within the Limited Warranty Period specified in this Limited Warranty; (2) submit the original invoice to establish ownership and date of purchase; and (3) make the Product available to a StoneAge authorized service representative for inspection to

determine eligibility for coverage under this Limited Warranty. This Limited Warranty shall not extend to any person or entity who fails to provide proof of original purchase from StoneAge or a Dealer. No Product may be returned for credit or adjustment without prior written permission from StoneAge.

- 6. DISCLAIMER OF IMPLIED WARRANTIES AND OTHER REMEDIES.
 EXCEPT AS EXPRESSLY STATED HEREIN (AND TO THE FULLEST EXTENT ALLOWED UNDER APPLICABLE LAW), STONEAGE HEREBY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY AND ALL WARRANTIES, REPRESENTATIONS OR PROMISES AS TO THE QUALITY, PERFORMANCE OR FREEDOM FROM DEFECT OF THE PRODUCT COVERED BY THIS LIMITED WARRANTY. STONEAGE FURTHER DISCLAIMS ALL IMPLIED INDEMNITIES.
- 7. LIMITATION OF LIABILITY. End-User specifically acknowledges that the Product may be operated at high speeds and/or pressures, and that as such it may be inherently dangerous if not used correctly. End-User shall familiarize itself with all operation materials provided by StoneAge and shall at all times use and require its agents, employees and contractors to use all necessary and appropriate safety devices, guards and proper safe operating procedures. In no event shall StoneAge be responsible for any injuries to persons or property caused directly or indirectly by the operation of the Product if End-User or any agent, employee, or contractor of End-User: (1) fails to use all necessary and appropriate safety devices, guards and proper safe operating procedures; (2) fails to maintain in good working order such safety devices and guards; (3) alters or modifies the Product in any way not approved by StoneAge in advance in writing; (4) allows the Product to be operated under more severe conditions or beyond the rated capacity specified for the Product; or (5) otherwise negligently operates the Product. End-User shall indemnify and hold StoneAge harmless from any and all liability or obligation incurred by or against StoneAge, including costs and attorneys' fees, to or by any person so injured.

TO THE FULL EXTENT ALLOWED BY APPLICABLE LAW, STONEAGE SHALL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES (INCLUDING WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF GOODWILL, DIMINUTION OF VALUE, WORK STOPPAGE, INTERRUPTION OF BUSINESS, RENTAL OF SUBSTITUTE PRODUCT, OR OTHER COMMERCIAL LOSS EVEN TO THE EXTENT SUCH DAMAGES WOULD CONSTITUTE DIRECT DAMAGES), WITH RESPECT TO THE COVERED STONEAGE PRODUCT, OR OTHERWISE IN CONNECTION WITH THIS LIMITED WARRANTY, REGARDLESS OF WHETHER STONEAGE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IT IS UNDERSTOOD THAT STONEAGE'S LIABILITY, WHETHER IN CONTRACT, IN TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL NOT EXCEED THE AMOUNT OF THE PURCHASE PRICE PAID BY THE END-USER FOR THE PRODUCT. STONEAGE'S MAXIMUM LIABILITY SHALL NOT EXCEED, AND END-USER'S REMEDY IS LIMITED TO EITHER (1) REPAIR OR REPLACEMENT OF THE DEFECTIVE WORKMANSHIP OR MATERIAL OR, AT STONEAGE'S OPTION, (2) REFUND OF THE PURCHASE PRICE, OR (3) ISSUANCE OF A CREDIT FOR THE PURCHASE PRICE, AND SUCH REMEDIES SHALL BE END-USER'S ENTIRE AND EXCLUSIVE REMEDY.

YOU, THE END-USER, UNDERSTAND AND EXPRESSLY AGREE THAT THE FOREGOING LIMITATIONS ON LIABILITY ARE PART OF THE CONSIDERATION IN THE PRICE OF THE STONEAGE PRODUCT YOU PURCHASED.

Some jurisdictions do not allow the limitation or exclusion of liability for certain damages, so the above limitations and exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction. If any provisions of this Limited Warranty is held to be invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of the other portions hereof.

