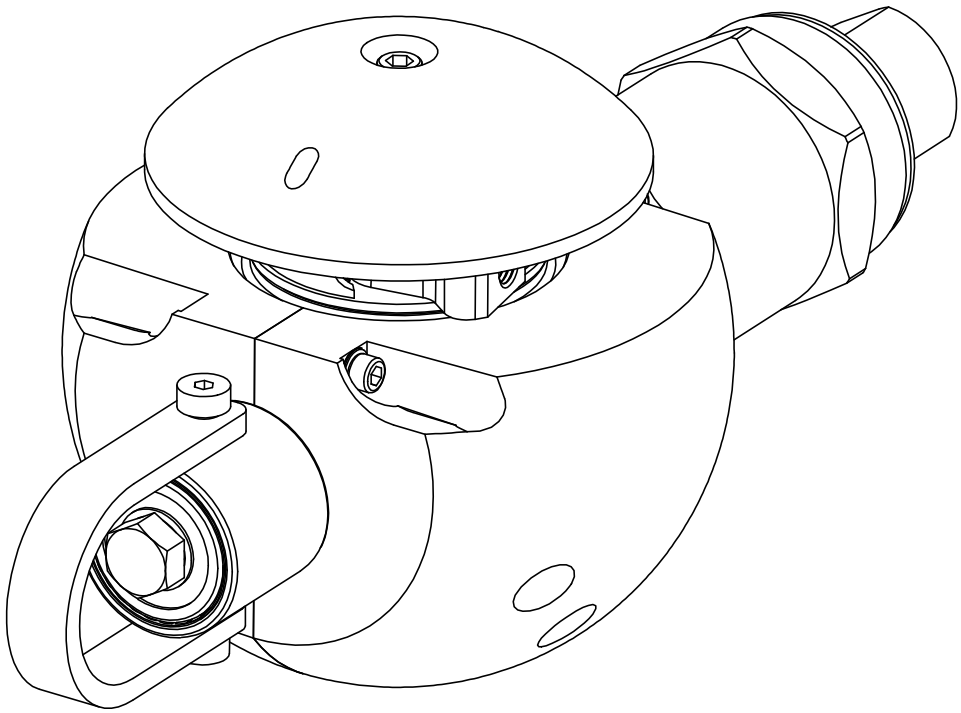
3D SELF ROTATING CLEANING TOOL

CYCLEAN

OPERATION AND MAINTENANCE MANUAL



StoneAge™
WATERJET TOOLS

54 Girard St. Durango, Colorado 81303 (970) 259-2869 Phone (970) 259-2868 Fax
www.stoneagetools.com sales@stoneagetools.com

11/02

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1.0 INTRODUCTION

This manual was prepared to provide the operator with the basic information needed to operate and service this equipment. The operating recommendations in the manual will ensure that you receive satisfactory performance. All operating personnel responsible for the care of this equipment should be familiar with the information in this manual.

If you have any questions or problems with this equipment, please contact the distributor you obtained the product from, or the manufacturer:

StoneAge, Inc.
54 Girard St.
Durango, CO 81303
970-259-2869 Phone 970-259-2868 Fax
www.stoneagetools.com

2.0 SAFETY WARNING

Operations with this equipment can be potentially dangerous if caution is not exercised prior to and during tool use. Please read and follow all of these instructions, in addition to the guidelines in the WJTA Recommended Practices handbook.

2.1 Only competent and trained persons should operate this equipment.
2.2 Do not exceed the maximum operating pressure specified for any component in a system.
2.3 This equipment should always be used with an operator controlled dump mechanism to release the high pressure water.
2.4 The immediate work area should be marked off to keep out untrained persons.
2.5 All personnel in the area should wear eye and hearing protection, as well as other protective clothing in accordance with specific conditions.
2.6 The tool should be securely supported. High thrust is created by waterjets and these forces can become unbalanced if a nozzle should plug.
2.7 Inspect the equipment for visible signs of deterioration, damage, or improper assembly. Do not operate until repaired. Make sure all threaded connections are tight and leak free.
2.8 Check to see that all control functions work properly before going to high pressure.
2.9 If it is necessary to have a person working near the cleaning jets, then it is this person who should have control of the pressure dump mechanism.
2.10 Waterjets can produce a static electricity charge. If the vessel being cleaned contains a combustible liquid or vapor having a risk of ignition, the tool should be properly grounded.

3.0 DESCRIPTION AND OPERATION

The **Cyclean** 3D Head was designed to convey high pressure fluid from a stationary line to a rotating head that cleans in a 3-D pattern. The unit incorporates a built-in viscous fluid governor to control the rotation speed. Jet reaction force propels rotation. The tool can be used for cleaning tanks, vessels, autoclaves and reactor interiors.

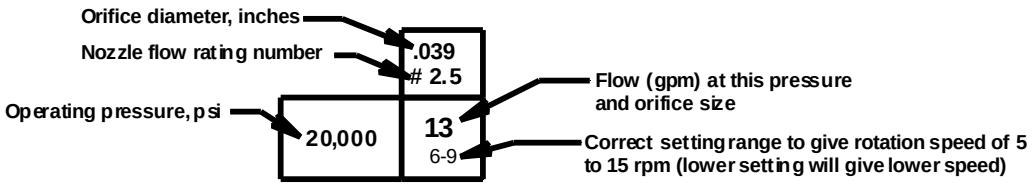
The Cyclean has a 3/4 Medium Pressure (Autoclave) female inlet, and can be supplied with an adapter to 1/2 female pipe thread. The swivel rotates on two axes, with one high pressure seal for each axis. **The Cyclean is capable of working pressures up to 20,000 psi and flow rates of 10 to 40 gpm.** The wide range of flow rates is accommodated by two nozzle arms capable of being set at different angles. The unit is filled with a thick fluid that controls rotation speed. The tool was designed for an operating rotation speed range of 5 to 30 rpm.

There are three important items in keeping the swivel in good working condition. First, always operate within the recommended speed range. Operating at higher rotation speeds is detrimental to the swivel components and will reduce their useful life. Second, keep the main body of the swivel full of viscous fluid. The viscous fluid provides bearing lubrication as well as speed control. An insufficient supply of fluid will cause the swivel to rotate too fast. Water in the viscous fluid will cause a loss of speed control and corrosion of the bearings. Third, blow out all internal water passages (nozzles, weep holes, inlet) with compressed air before storing the tool.

The adjustable nozzle arms allow the tool to handle different flow rates and pressures. **When the operating conditions of pressure or flow are changed, the setting must be adjusted to match the new conditions.** The chart below shows the correct settings determined by pressure and nozzle size. The following page illustrates how to change the setting. To increase the rotation speed, or if the swivel is not rotating, increase the setting number.

Nozzle Size

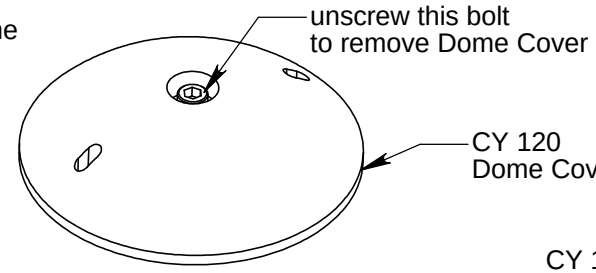
Pressure, psi	.039 # 2.5	.043 # 3.0	.047 # 4.0	.050 # 4.5	.055 # 5.5	.059 # 6	.062 # 7	.067 # 8	.073 # 9.5	.078 # 11	.089 # 14	.093 # 15
20,000	**13** 6-9	**15** 4.5-7.5	**18** 4-6	**20** 3.5-5	**24** 2.5-4	**27** 2.5-3.5	**30** 2-3	**34** 2-3	**39** 2-2.5			
17,500	**12** 6.5-9	**14** 5-8	**16** 4-6	**19** 3.5-5	**22** 3-4	**25** 2.5-3.5	**28** 2.5-3.5	**32** 2-3	**37** 2-3	**41** 2-2.5		
15,000	**11** 7-9	**13** 5-9	**15** 4-7	**17** 3.5-6	**21** 3-4.5	**23** 2.5-4	**26** 2.5-3.5	**29** 2-3	**34** 2-3	**38** 2-2.5		
12,500	**10** 7.5-9	**12** 6-9	**14** 4.5-8	**16** 4-7	**19** 3-5.5	**22** 3-4.5	**24** 2.5-4	**27** 2.5-3.5	**31** 2-3	**35** 2-3	**42** 2-2.5	
10,000		**11** 6.5-9	**13** 5-9	**14** 4.5-8.5	**17** 3.5-6.5	**19** 3-5.5	**21** 3-5	**24** 2.5-4	**28** 2.5-3.5	**31** 2-3	**38** 2-3	**40** 2-3
7,500			**11** 6-9	**12** 5-9	**15** 4-9	**17** 3.5-7.5	**18** 3-6.5	**21** 3-5.5	**24** 2.5-5	**27** 2.5-4	**33** 2-3.5	**34** 2-3.5
5,000					**12** 5.5-9	**14** 5-9	**15** 4-9	**17** 3.5-9	**20** 3-7	**22** 3-6.5	**27** 2.5-5.5	**28** 2.5-5

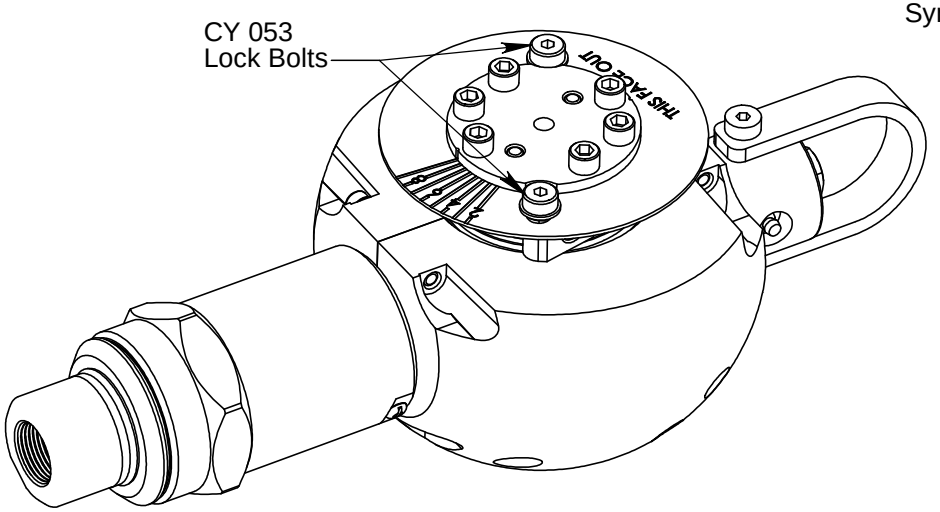


3.1 CYCLEAN SETTING ADJUSTMENT

1. Unscrew Bolt that holds Dome Cover (CY 120) to the Head.

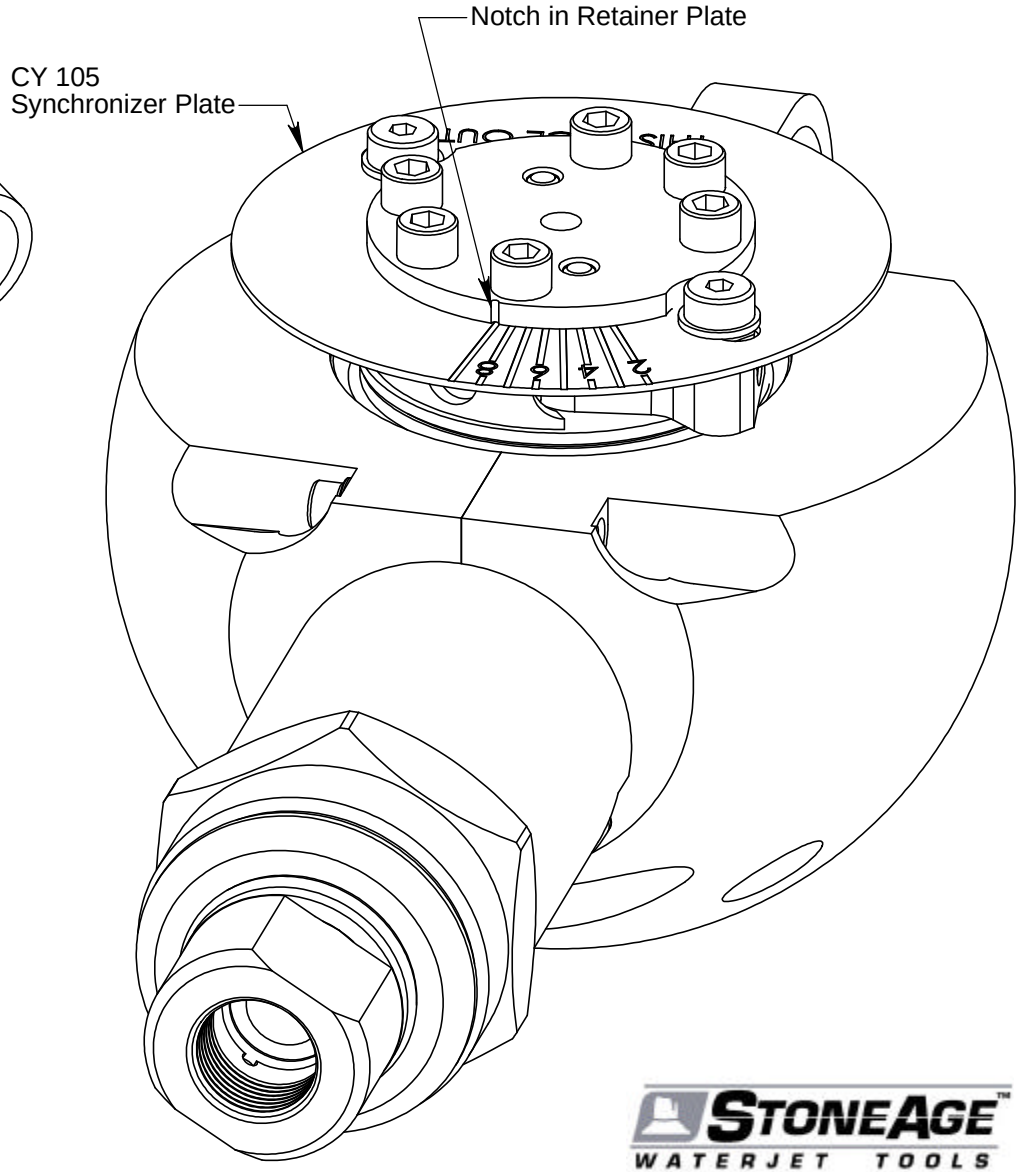
2. Loosen but do not remove the two Lock Bolts (CY 053).





3. Read the number setting by the notch in Retainer Plate. Turn the Synchronizer Plate (CY 105) to the correct number setting to match the orifice size and pressure from chart. Rotation speed can also be increased or decreased by changing the setting. The higher the number, the faster the tool will rotate.

4. Tighten the Lock Bolts (CY 053), install the Dome Cover.



StoneAge™ WATERJET TOOLS

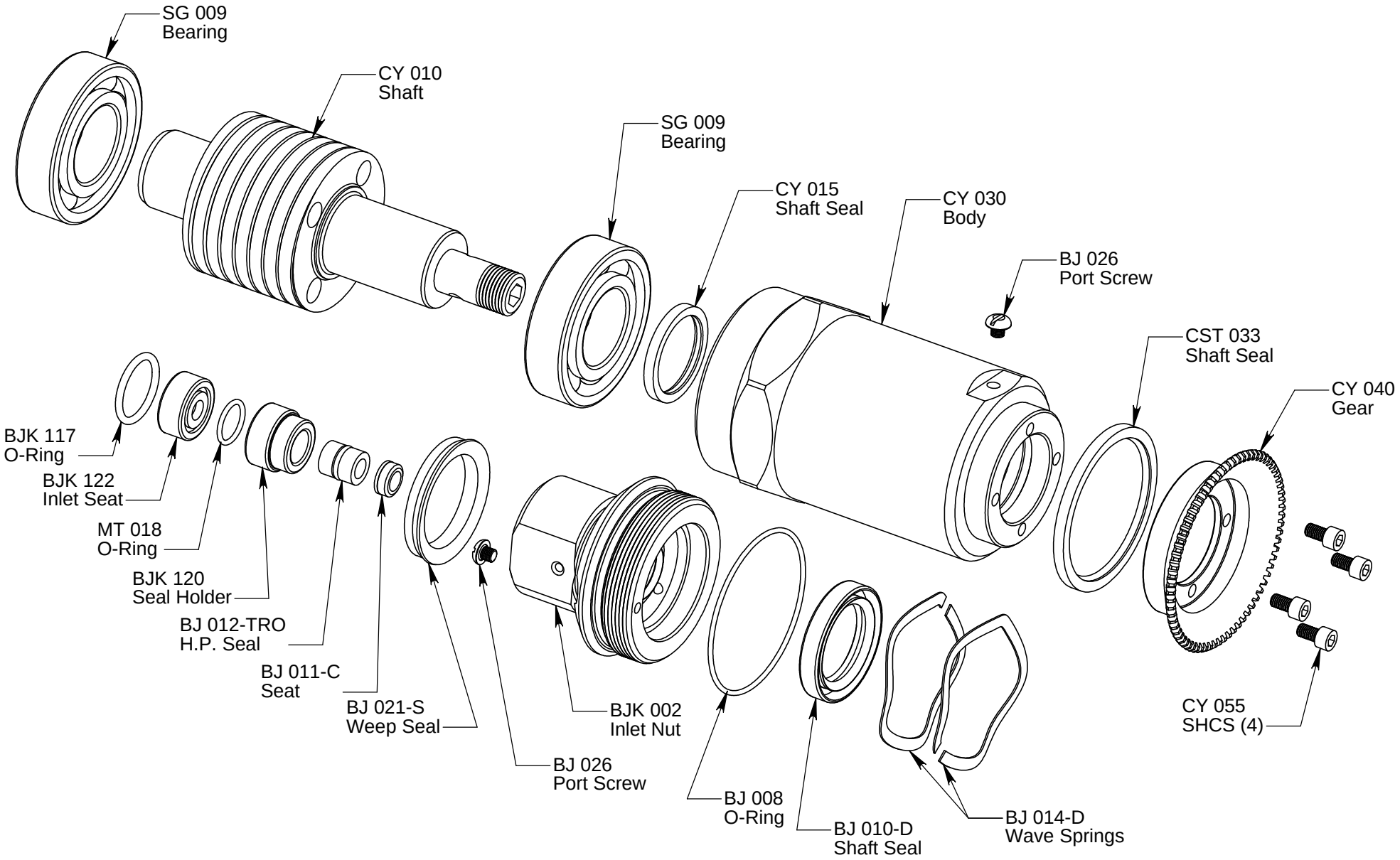
4.0 PARTS LIST

Part #	Description	Qty
BC 053	SHCS, 1/4-20x1	7
BJ 008	O-Ring	1
BJ 010-D	Shaft Seal	1
BJ 011-C	Seat, carbide	2
BJ 012-TRO	High Pressure Seal	2
BJ 014-D	Wave Spring	2
BJ 021-S	Weep Seal	1
BJ 026	Port Screw	2
BJK 002	Inlet Nut	1
BJK 117	O-Ring	1
BJK 120	Seal Holder	1
BJK 122	Inlet Seat	1
CST 033	Shaft Seal	1
CY 009	Bearing	3
CY 010	Shaft	1
CY 015	Shaft Seal	3
CY 030	Body	1
CY 040	Gear, small	1
CY 045	Gear, large	1
CY 050	Washer	2
CY 051	Jam Nut	2
CY 053	Shoulder Bolt	2
CY 054	Washer	2
CY 055	Screw, gear	4
CY 058	Washer	9
CY 059	Screw, cover, long	2
CY 060	Angle Block	1
CY 070	Cross Shaft	1
CY 071	Seal Ring	4
CY 072	O-Ring	4
CY 073	Spacer	1
CY 080	Cross Body	1
CY 088	Wave Spring	1
CY 089	Seal, U-Cup	1
CY 090	Head	1
CY 097	O-Ring	4
CY 100	Plate, Retainer	1
CY 102	Bolt, Head	6
CY 103	Bolt, Dome Cover	1
CY 105	Plate, Synchronizer	1
CY 110	Block, Pulling	1
CY 115	Washer, Dome Cover	1
CY 116	Washer	6
CY 120	Dome Cover	1
CY 121-1	Cover Half	1
CY 121-2	Cover Half	1
CY 130	Elbow	2
CY 132	Sleeve, Inlet	2
CY 135	Tube, Vane	2
HC 041	Ring Standoff	1
HC 090	Pulling Ring Assembly	1
MT 018	O-Ring	1
SG 009	Bearing	2

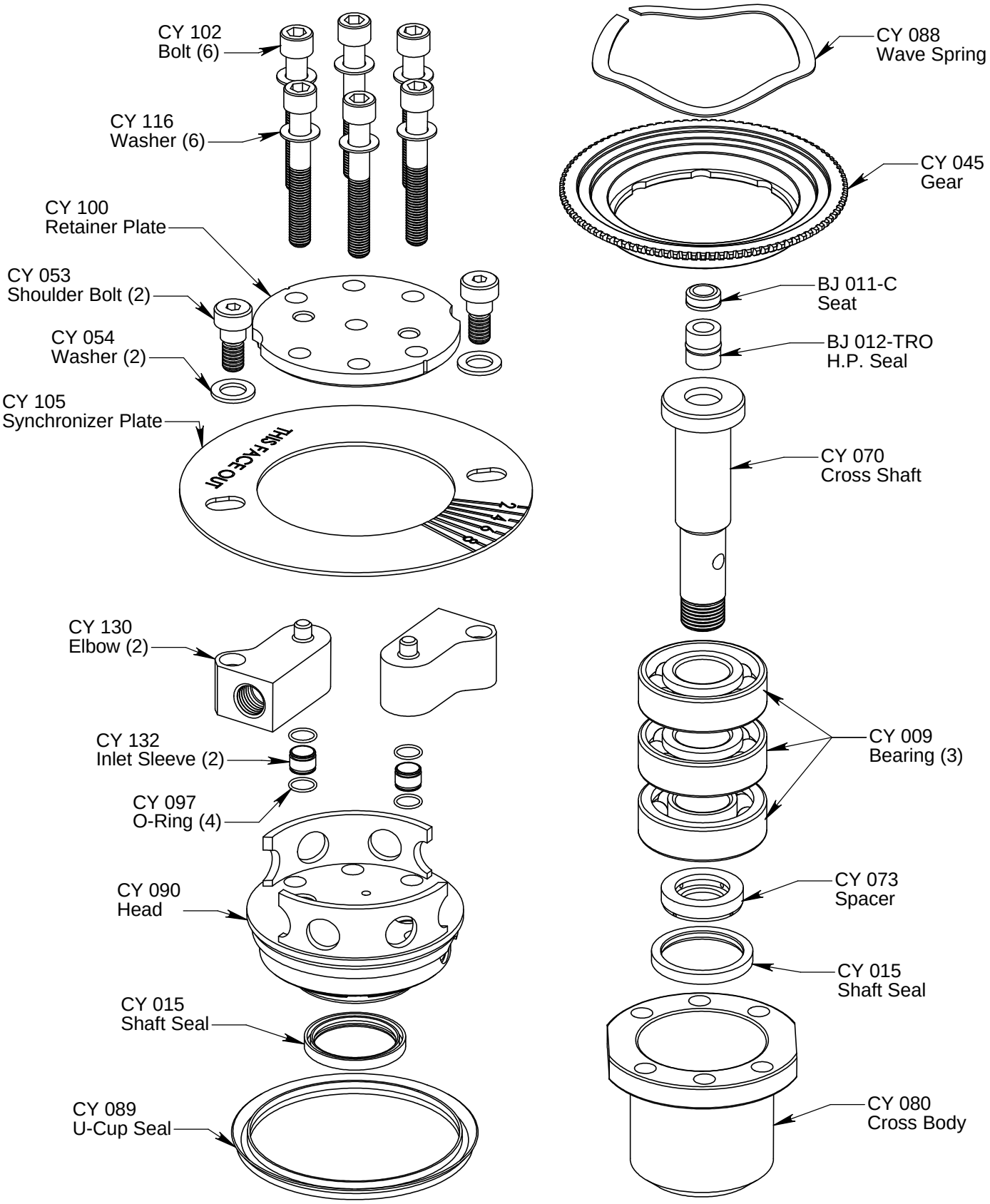
Also available separately:

CY 600	Service Kit	(Includes items needed for maintenance)
CY 602	Seal Kit	(Includes parts needed for one seal change)
CY 610	Overhaul Kit	(Includes parts needed for tool rebuild)
CY 612	Tool Kit	(Includes tools to aid assembly)

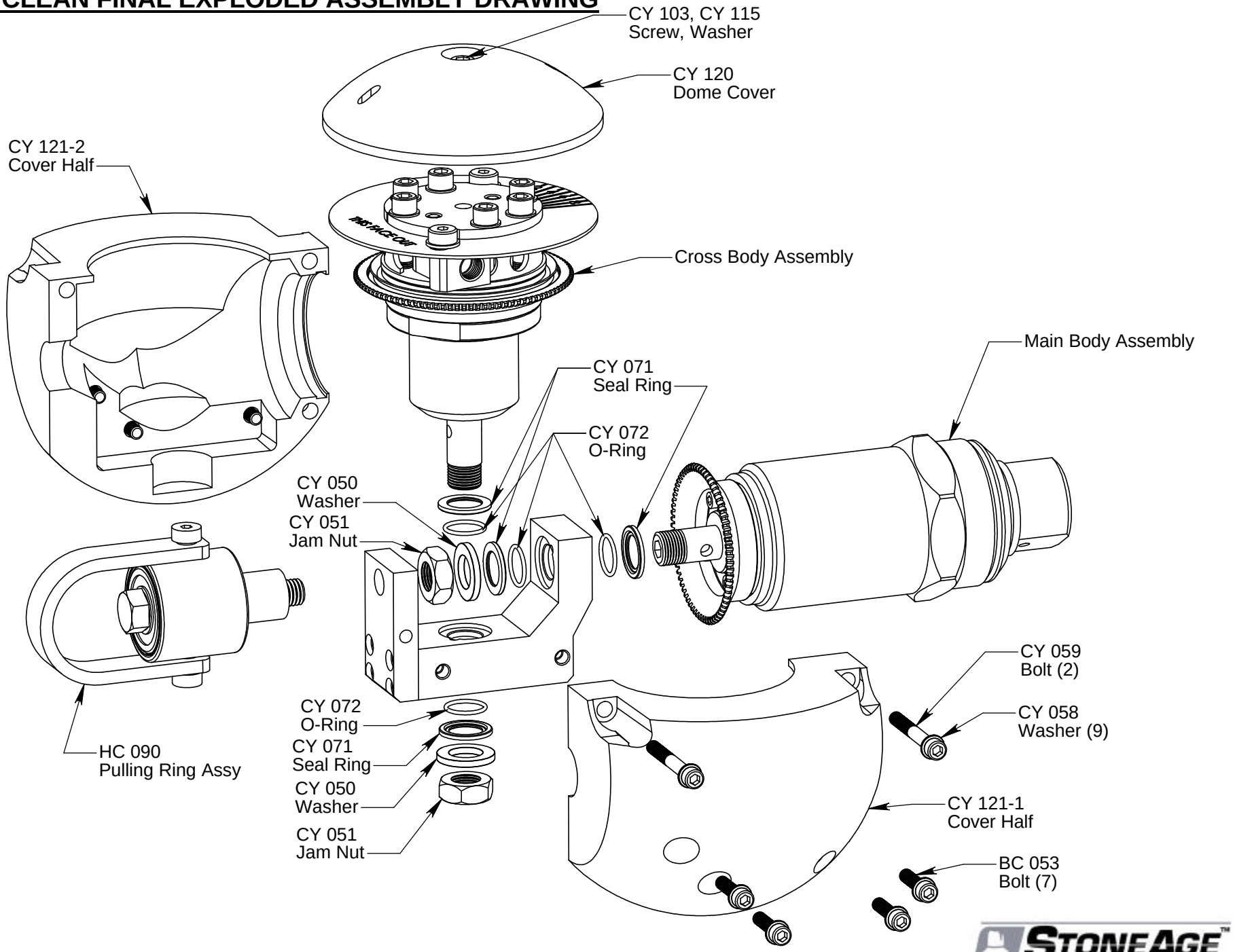
5.0 CYCLEAN MAIN BODY EXPLODED ASSEMBLY DRAWING



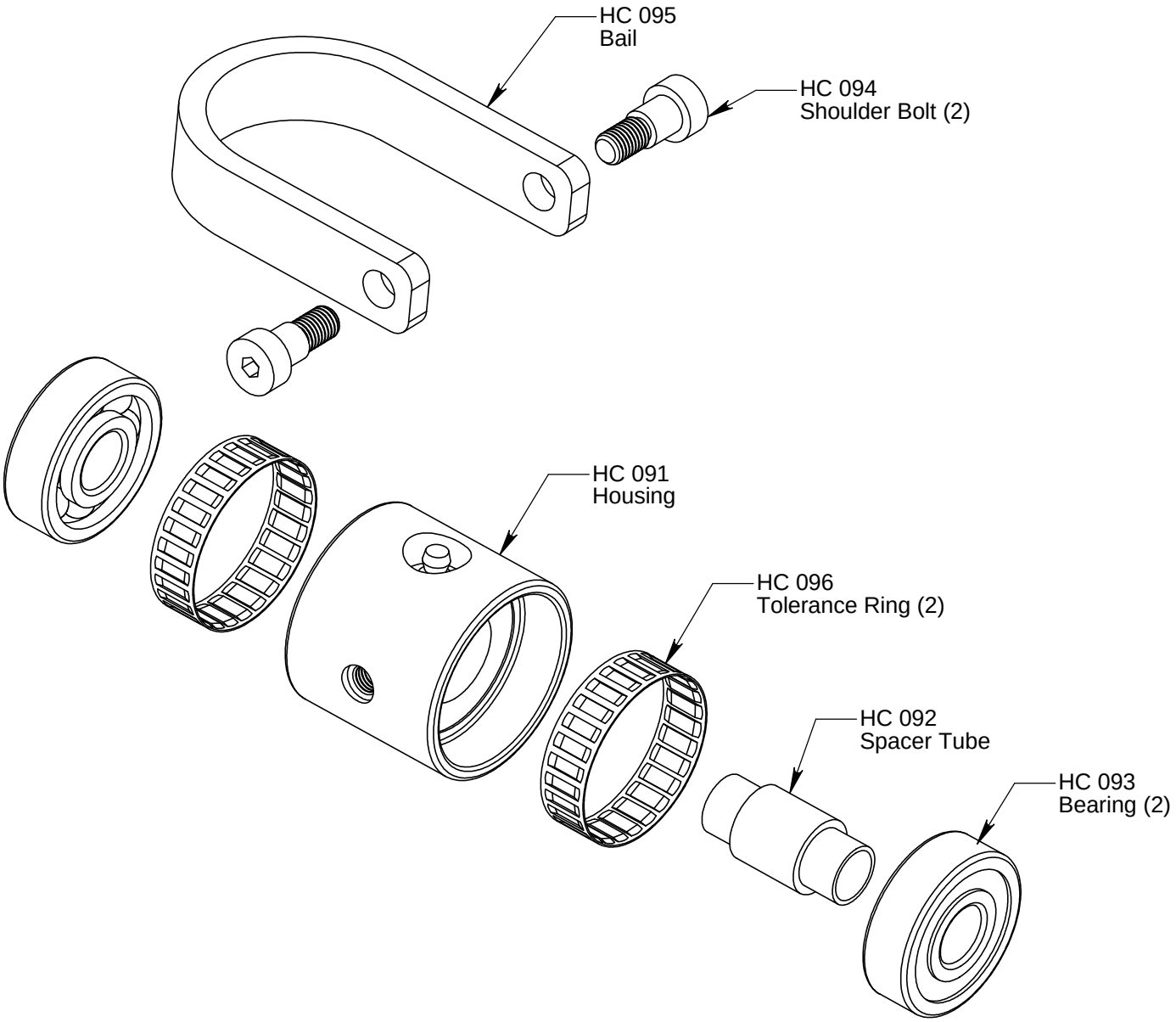
5.1 CYCLEAN CROSS BODY EXPLODED ASSEMBLY DRAWING



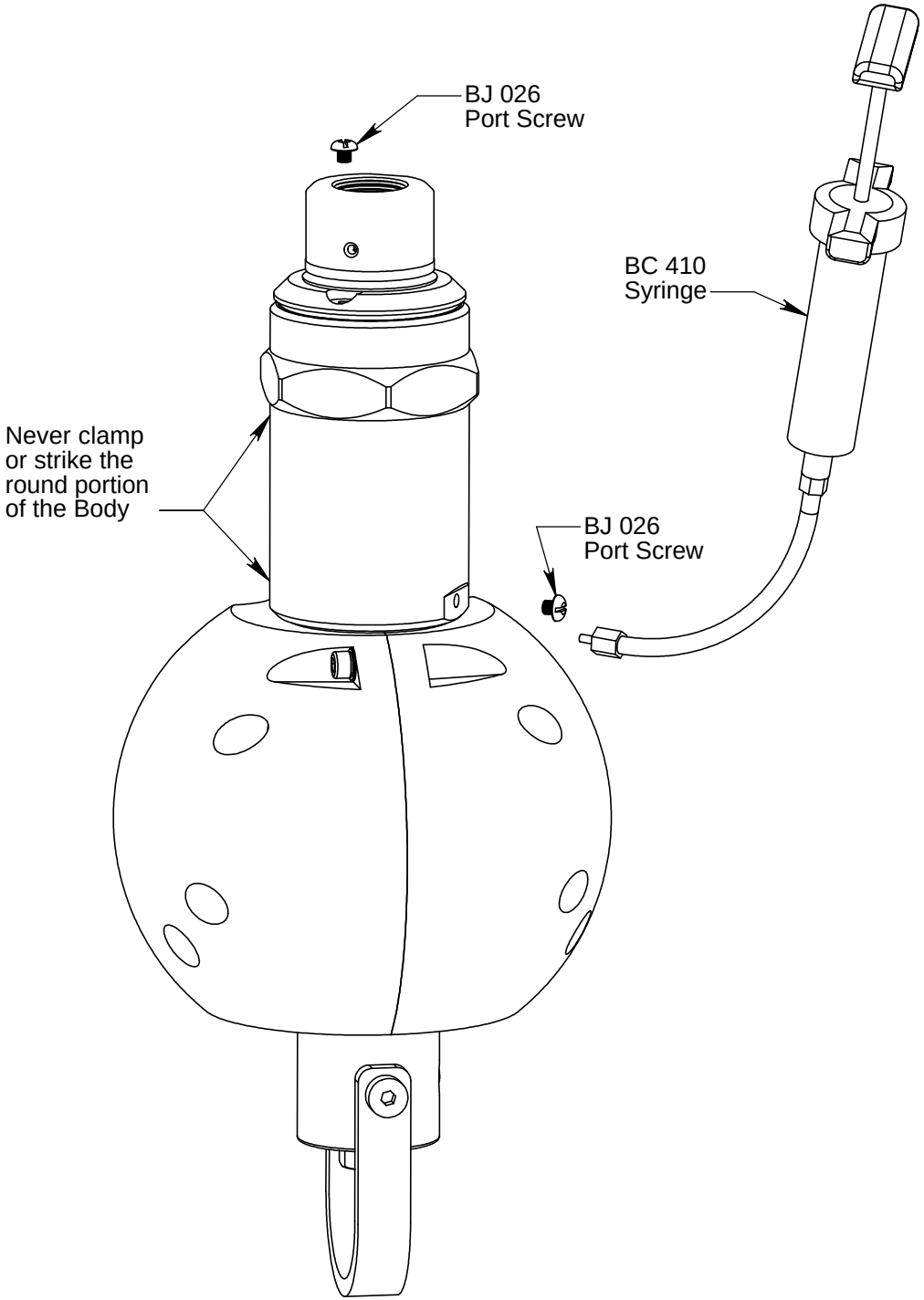
5.2 CYCLEAN FINAL EXPLODED ASSEMBLY DRAWING



HC 090 PULLING RING EXPLODED ASSEMBLY DRAWING



6.0 CYCLEAN MAINTENANCE



The most important part of Cyclean operation is keeping the rotation of the tool within the proper range. To maintain the proper rotation speed, the setting must be correct for the pressure and nozzle size used. See Section 3.0 for this information.

The other important item in maintaining the proper rotation speed is keeping the tool full of viscous fluid. This maintenance operation should be performed after 80 to 100 hours. Follow the steps below for this procedure.

After each use of the tool, blow out the water and blow in a few drops of light oil to prevent internal corrosion of the parts. (Do not use WD-40; this attacks the rubber seals.)

To maintain the viscous fluid in the Cyclean:

1. Fill the Syringe (BC 410) with Slow viscous fluid by unscrewing the handle on the body of the syringe, pulling out the plunger, and pouring fluid in from the back end.

2. Hold the Cyclean upright as shown.

3. Remove the Port Screws (BJ 026) in the Inlet Nut and Body.

4. Thread the Syringe into port in Body. Add at least one syringe full of fluid; excess fluid will escape out the fill port in the Inlet Nut. If the fluid coming out is very dirty, keep adding fluid.

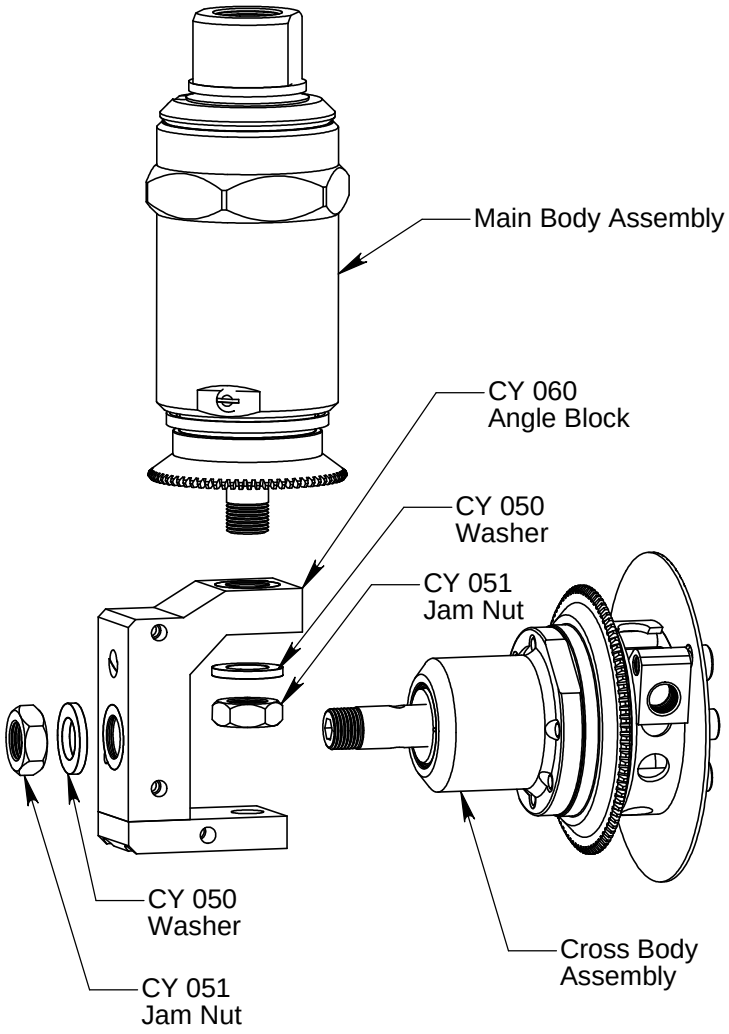
5. Remove syringe, install Port Screws.

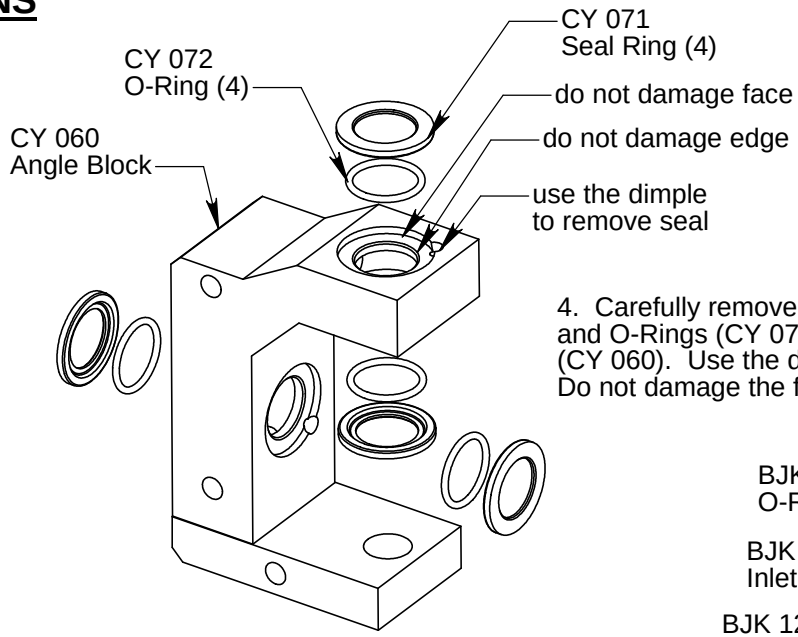
6.1 CYCLEAN DISASSEMBLY INSTRUCTIONS

1. Remove the Cover halves and Dome (not shown). The Pulling Ring (HC 090) can also be removed if desired.

2. Remove the Jam Nut (CY 051) and Washer (CY 050) from the Cross Body Assembly by inserting a 5/16" Allen Wrench (CY 205) in the Shaft end. Pull the Cross Body Assembly out of the Angle Block (CY 060).

3. Remove the Jam Nut and Washer on the Main Body Assembly in the same manner. Pull the Main Body Assembly out of the Angle Block.





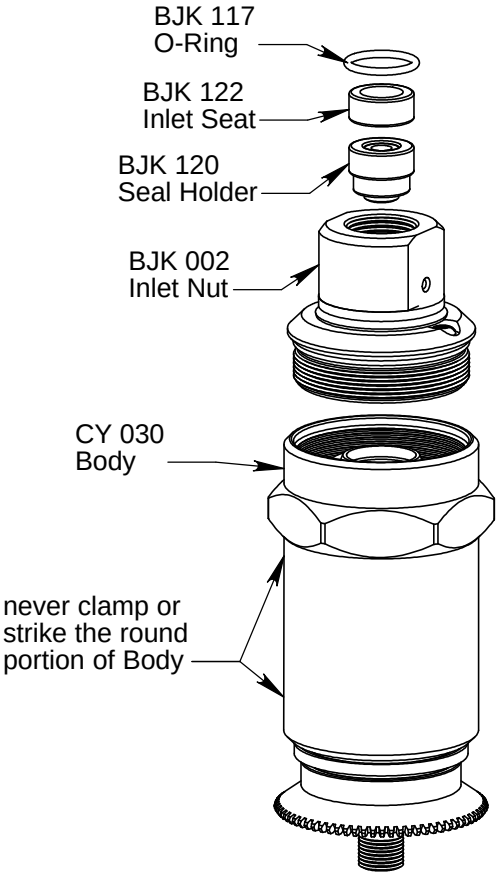
4. Carefully remove the four Seal Rings (CY 071) and O-Rings (CY 072) from the Angle Block (CY 060). Use the dimple to pry out seal. Do not damage the face or edge below the seal.

5. Unscrew the Inlet Nut (BJK 002) from the Body (CY 030). Always hold the Body by the flats.

6. Remove the O-Ring (BJK 117) from the Inlet Nut; push out the Seal Holder (BJK 120) and Inlet Seat (BJK 122).

7. Push the H.P. Seal and Seat out of the Seal Holder.

8. Remove the Port Screw (BJ 026) from the Inlet Nut.



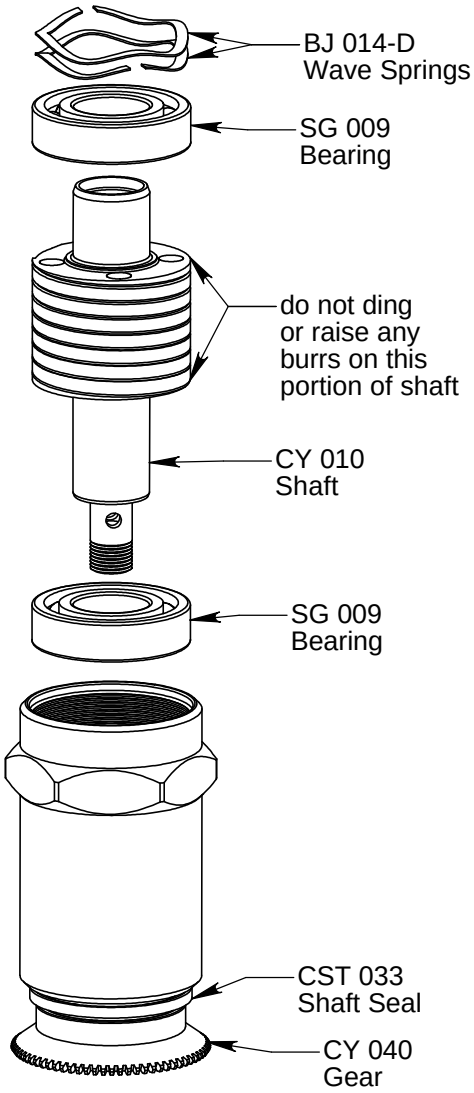
6.1 CYCLEAN DISASSEMBLY INSTRUCTIONS (CONTINUED)

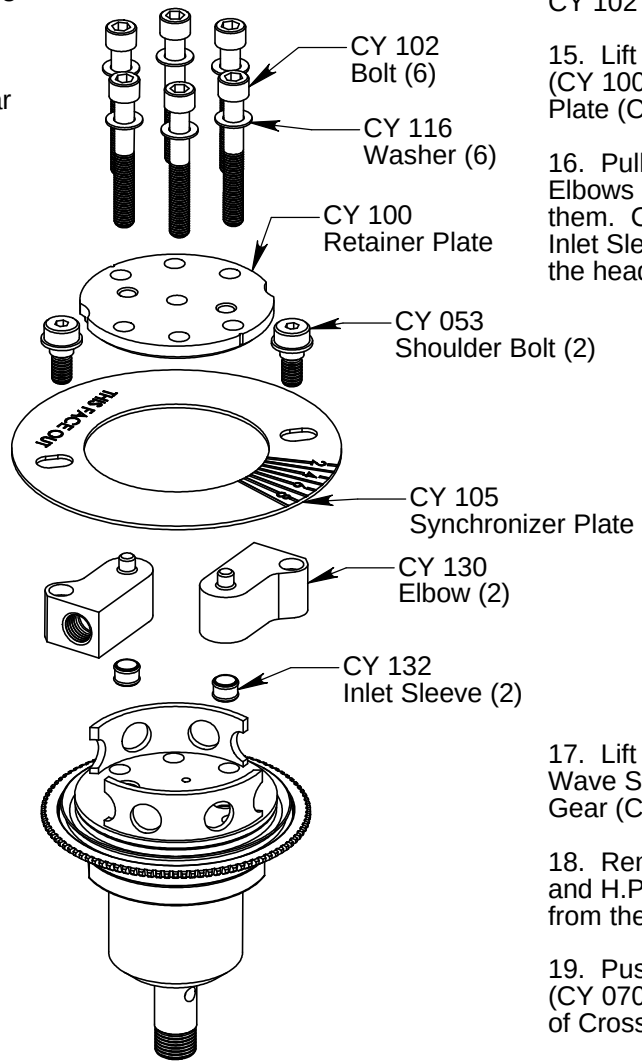
9. Remove the Wave Springs (BJ 014-D).

10. Push the Shaft (CY 010) out of the Body.

11. Carefully remove the Bearings (SG 009) from the Shaft. Be sure not to ding the edges of the center part of shaft.

12. If the Seal (CST 033) needs replacing, remove the four screws that hold on the Gear (CY 040) and remove the Gear.



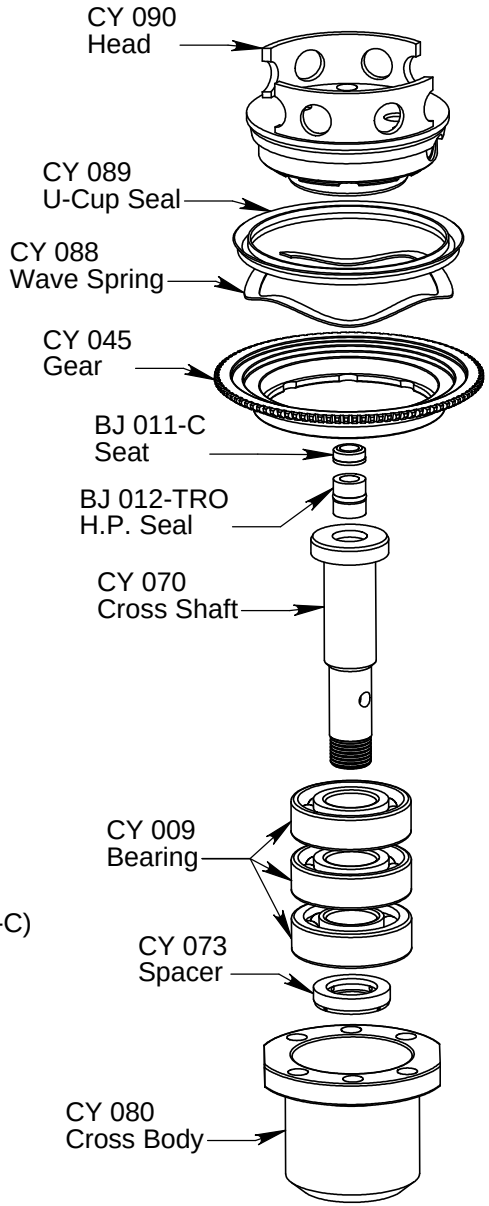


13. Remove the two Shoulder Bolts (CY 053).

14. Remove the six CY 102 Bolts.

15. Lift the Retainer Plate (CY 100) and Synchronizer Plate (CY 105) off.

16. Pull straight up on the Elbows (CY 130) to remove them. Carefully remove the Inlet Sleeves (CY 132) from the head or elbows.



17. Lift off the Head (CY 090), Wave Spring (CY 088) and Gear (CY 045).

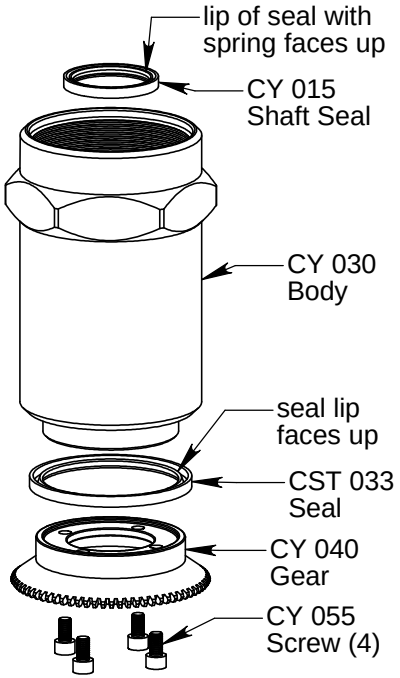
18. Remove the Seat (BJ 011-C) and H.P. Seal (BJ 012-TRO) from the Shaft bore.

19. Push the Cross Shaft (CY 070) with bearings out of Cross Body (CY 080).

20. Press the Cross Shaft out of the Bearings (CY 009).

StoneAge™ WATERJET TOOLS

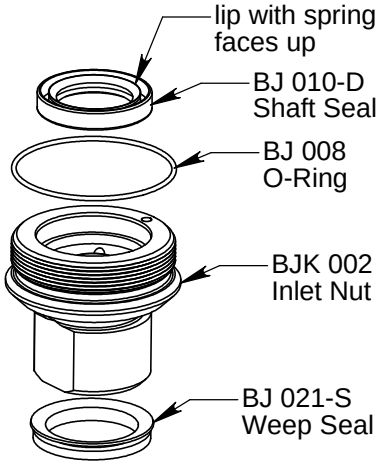
6.2 CYCLEAN MAIN BODY ASSEMBLY INSTRUCTIONS



1. Install Seal (CST 033) on end of Body (CY 030).

2. Install Gear (CY 040) with Screws (CY 055). Use removable locktite or anti-seize on threads.

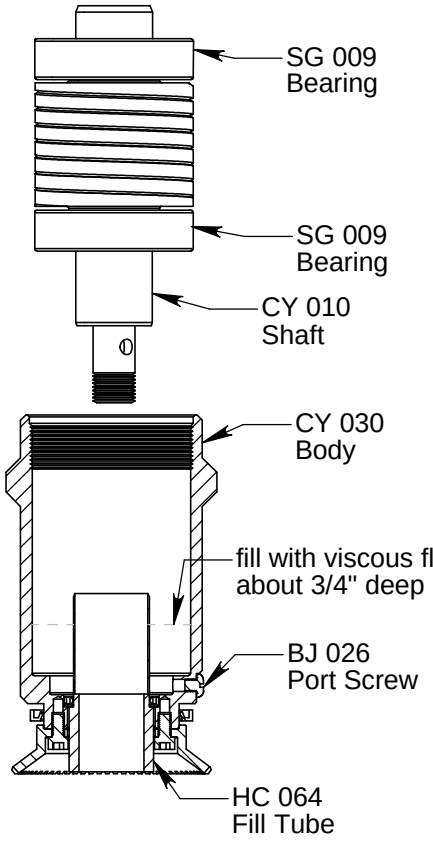
3. Install Shaft Seal (CY 015) in Body, as shown. Use the CY 206 assembly tool.



4. Install the Shaft Seal (BJ 010-D) in the Inlet Nut (BJK 002) as shown.

5. Place the O-Ring (BJ 008) over the threads of the Inlet Nut.

6. Install the Weep Seal (BJ 021-S) on Inlet Nut.



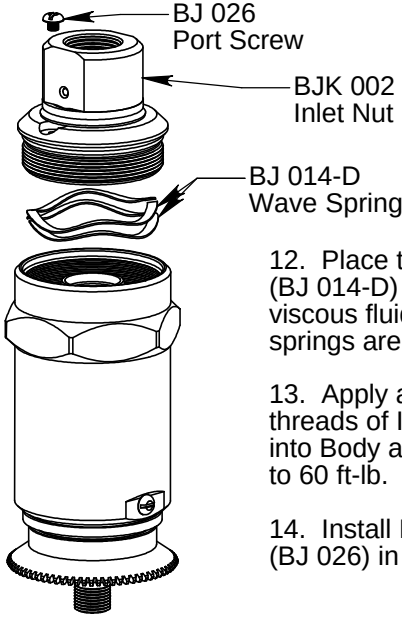
7. Press Bearings (SG 009) onto Shaft (CY 010).

8. Install Port Screw (BJ 026) in Body.

9. Insert Fill Tube (HC 064) into Body, thru Shaft Seal, until it stops.

10. Pour Viscous Fluid into Body until it is about 3/4" deep.

11. Slide Shaft with bearings into Body; allow shaft to push out the fill tube. Fluid should come up thru top bearing.



12. Place the Wave Springs (BJ 014-D) into Body. Add viscous fluid until wave springs are covered.

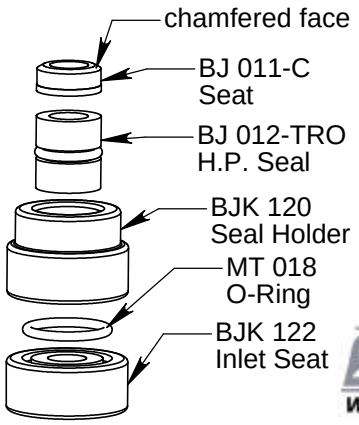
13. Apply anti-seize to threads of Inlet Nut, thread into Body and tighten to 60 ft-lb.

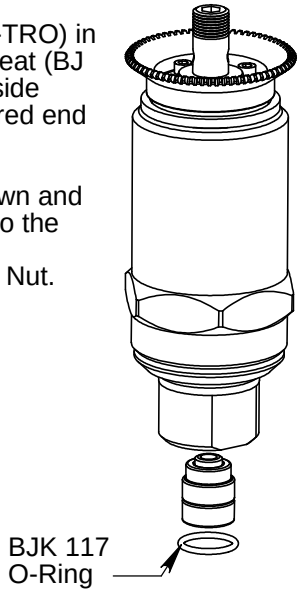
14. Install Port Screw (BJ 026) in Inlet Nut.

15. Place O-Ring (MT 018) in groove of Inlet Seat (BJK 122). Place Seal Holder (BJK 120) on top of this.

16. Insert H.P. Seal (BJ 012-TRO) in bore of Seal Holder. Place Seat (BJ 011-C) on Seal, with the flat side toward the Seal. The chamfered end faces up in this view.

17. Turn the Body upside down and insert the seal holder assy into the Inlet Nut. Install the O-Ring (BJK 117) into groove in Inlet Nut.





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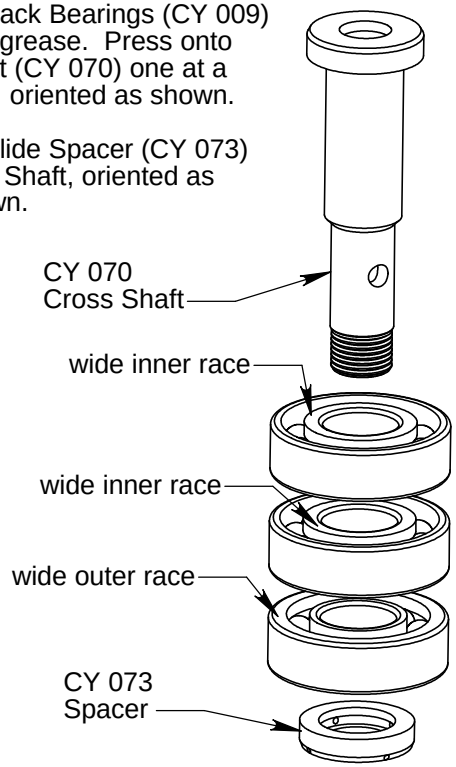
6.2 CYCLEAN CROSS BODY ASSEMBLY INSTRUCTIONS

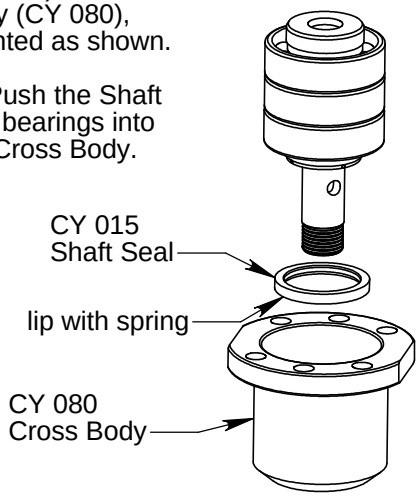
1. Pack Bearings (CY 009) with grease. Press onto Shaft (CY 070) one at a time, oriented as shown.

2. Slide Spacer (CY 073) onto Shaft, oriented as shown.



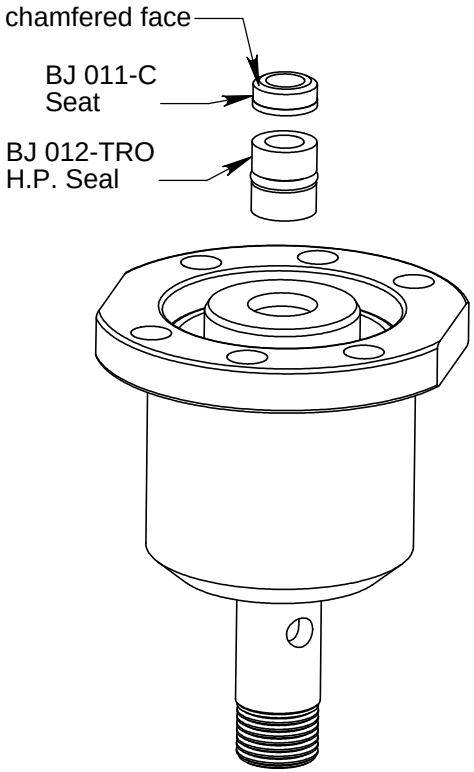
3. Install Shaft Seal (CY 015) in Cross Body (CY 080), oriented as shown.

4. Push the Shaft with bearings into the Cross Body.

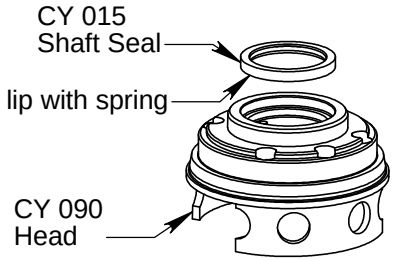


5. Apply grease and install the H.P. Seal (BJ 012-TRO) in the bore of the shaft.

6. Place the Seat (BJ 011-C) on top of the H.P. Seal, with the flat face against the Seal.



7. Install Shaft Seal (CY 015) in Head (CY 090) as shown.

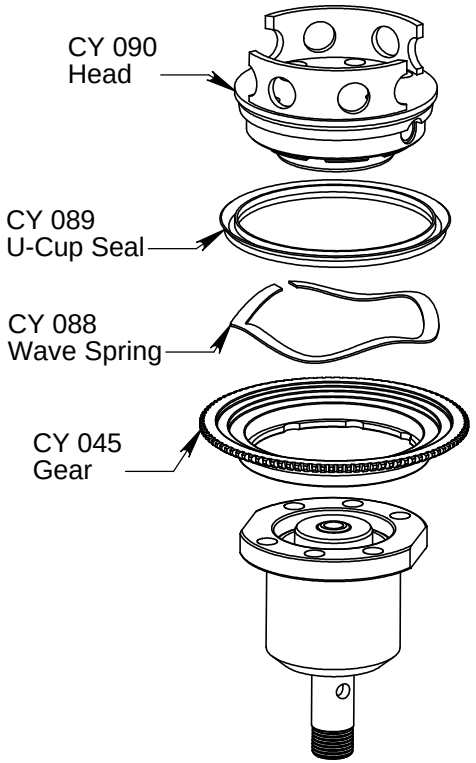


8. Place Gear (CY 045) on Cross Body; align partial holes in Gear with holes in Body.

9. Place Wave Spring (CY 088) on Gear.

10. Slide U-Cup Seal (CY 089) onto Head; the U Cup faces up.

11. Place Head on top of Cross Body; align the bolt holes.



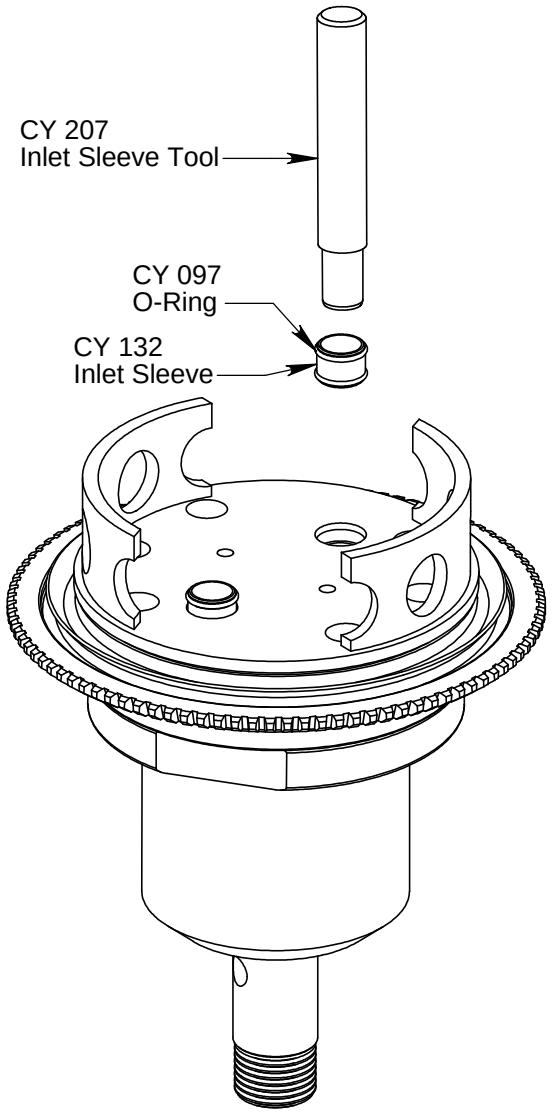
StoneAge™ WATERJET TOOLS

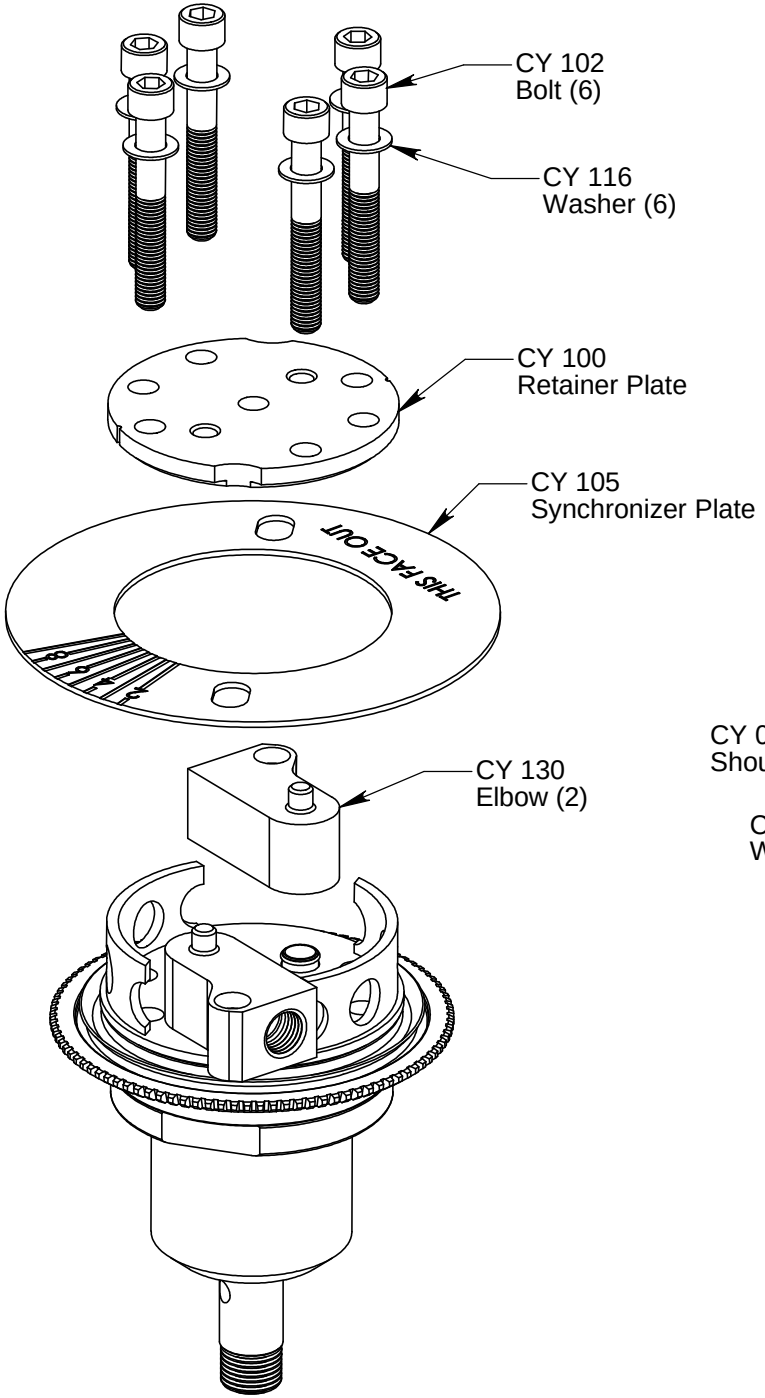
08/02

6.2 CYCLEAN CROSS BODY ASSEMBLY INSTRUCTIONS CONTINUED

12. Install new O-Rings (CY 097) on each Inlet Sleeve (CY 132). Apply grease to O-Rings.

13. Insert the Inlet Sleeve Tool (CY 207) into the Inlet Sleeve; very carefully install each Inlet Sleeve into the Head. Make sure that the O-Rings do not get nipped.



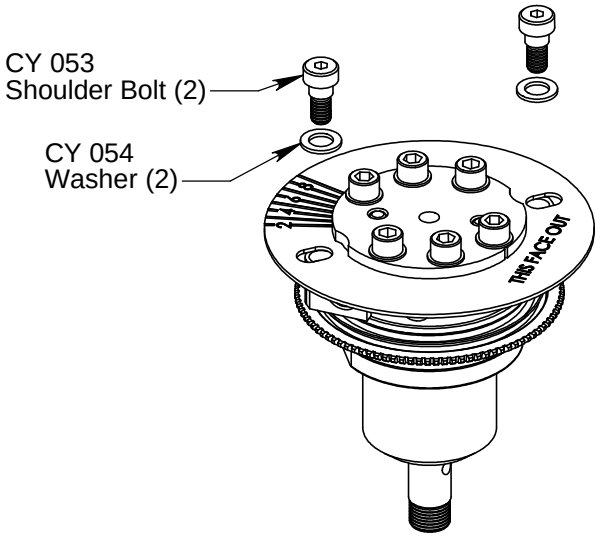


14. Carefully install the Elbows (CY 130) onto the Inlet Sleeves. Make sure that the O-Rings do not get pinched; the Elbows should sit flat against the Head.

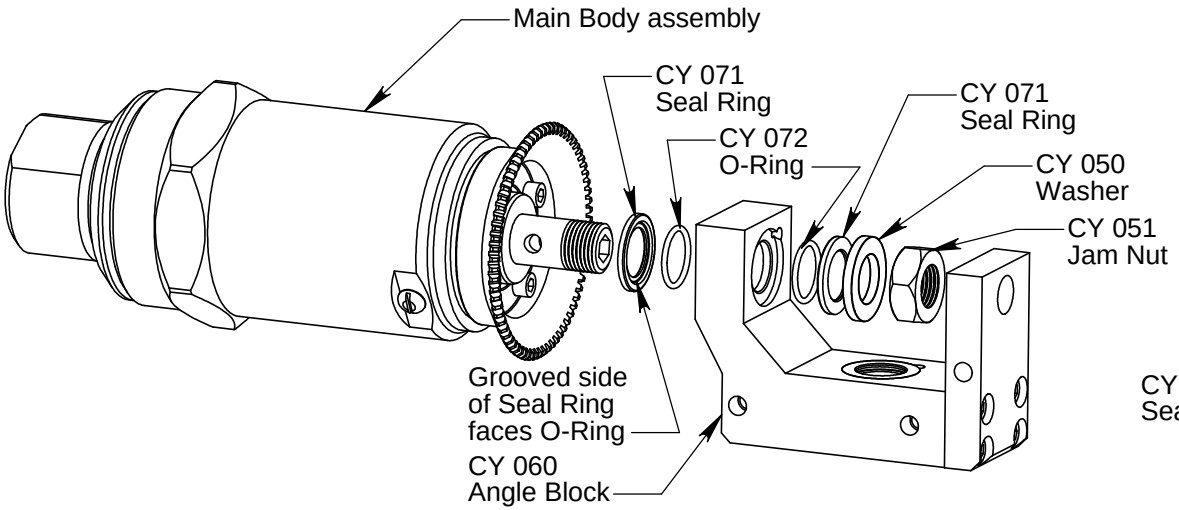
15. Place the Retainer Plate (CY 100) in the center of the Synchronizer Plate (CY 105). Place the plates on top of the Elbows and Head. The pins on the Elbows go into holes on the Retainer Plate.

16. Apply anti-seize to the six bolts (CY 102); install these with Washers (CY 116) into the Head. Tighten each bolt a little at a time until the wave spring is compressed. Torque the bolts to 200 in-lb.

17. Install the two Shoulder Bolts (CY 053) and Washers (CY 054) thru the slots in the Synchronizer Plate and into the Elbows. Refer to Section 3.0 for the proper setting to match operating conditions and tighten.



6.2 CYCLEAN FINAL ASSEMBLY INSTRUCTIONS

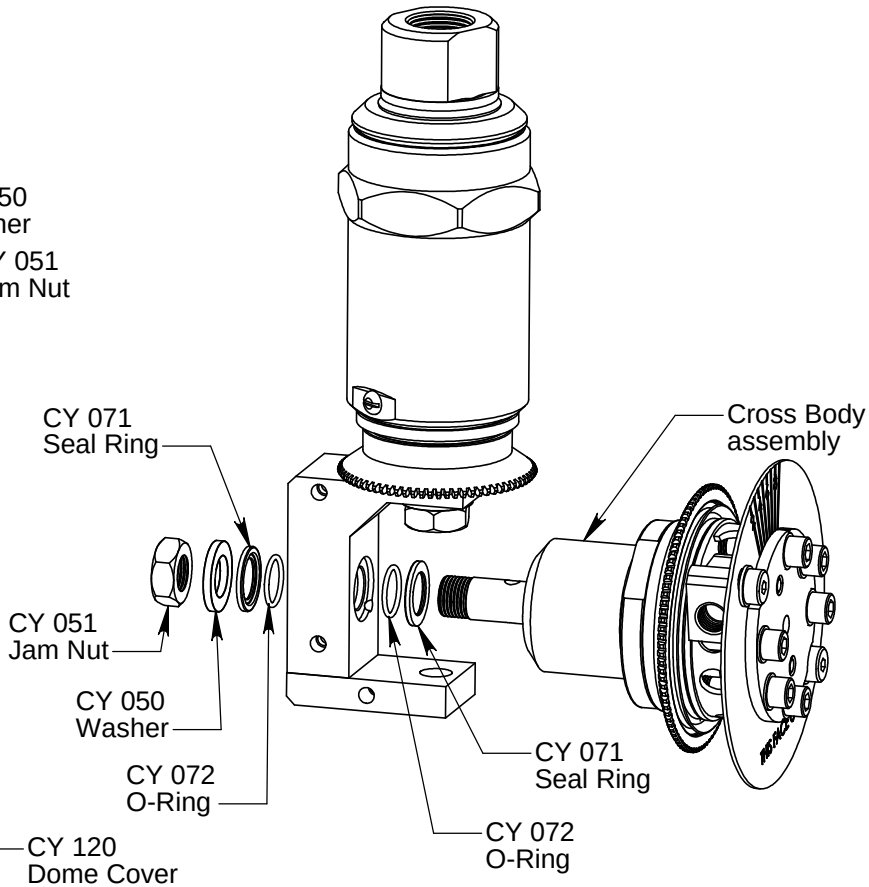


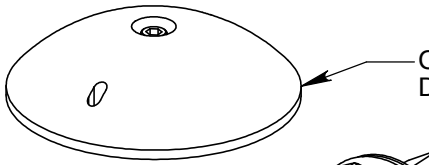
1. Place Seal Ring (CY 071) onto Shaft of Main Body Assy.; place O-Ring (CY 072) over Shaft next. Note orientation of Seal Ring to O-Ring. Insert Shaft into Angle Block; place O-Ring (CY 072) over Shaft, followed by other Seal Ring.

2. Place Washer (CY 050) over Shaft end. Thread Jam Nut (CY 051) onto the Shaft.

3. Tighten the Jam Nut to a torque of 150 ft-lb by inserting a 5/16" Allen wrench into the Shaft end.

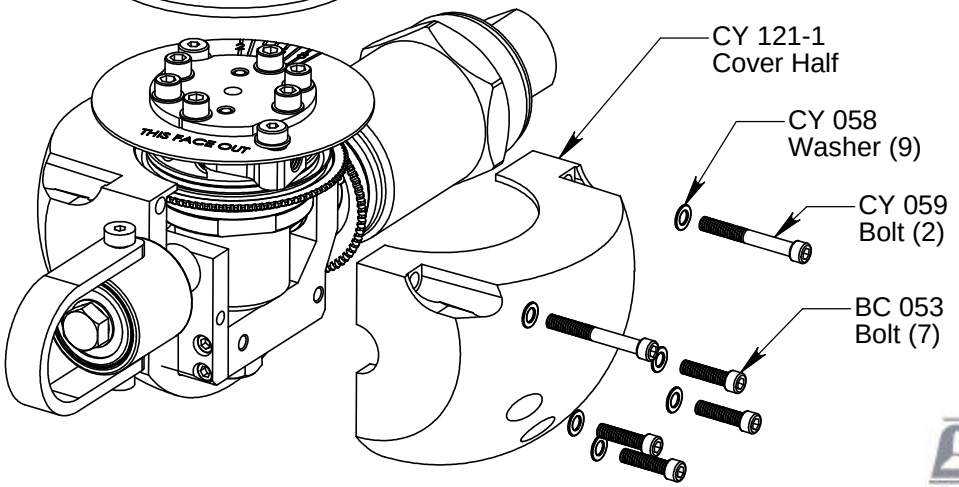
4. Repeat the same steps for the Cross Body assembly.





5. Install the Cover Halves (CY 121). Make sure the Seal (CST 033) on the small gear goes into the groove of the Covers.

6. Install the Dome Cover (CY 120).



6.3 TROUBLESHOOTING GUIDE

SYMPTOM	PROBLEM	SOLUTION
Leaks out weep holes	Worn H.P. seal	Replace H.P. Seal (BJ 012-TRO)
	Damaged seat	Replace Seat (BJ 011-C)
	Damaged face	Face or replace Shaft or Head
Seals wear out quickly	Damaged seat	Replace Seat (BJ 011-C)
	Worn Seal Holder	Replace if more than .510 dia.
Will not rotate	Not enough jet torque	Check nozzles for plugging Increase Setting
	Internal damage	Rotate head by hand, if rough to turn, check bearings
	Improper assembly	Inspect and repair
Water inside tool	Bad H.P. Seal leak	Replace H.P. Seal
	Worn shaft seals	Replace shaft seals
Rotates too fast	Too much torque	Decrease Setting
	Low or empty Viscous Fluid	Refill viscous fluid
	Water in Viscous Fluid	Clean and refill

7.0 LIMITED WARRANTY

StoneAge, Inc. warrants to the extent herein provided the products of its own manufacture against defects in material and workmanship under normal use and service for which the products were designed for a period of six months after shipment from the factory. If such products should fail through defect in workmanship or material and specific written notice of failure is made within six months after date of shipment from factory, StoneAge, Inc. will either repair or replace any such items, F.O.B. its factory without charge. StoneAge, Inc. shall not be liable for expense incurred in repairs or alterations made outside the factory without the proper and prior authorization. StoneAge, Inc. shall have the option of requiring the return of the defective products to its factory, with transportation charges prepaid, to establish the claim. StoneAge, Inc. shall in no event be held liable for damages or delay resulting from or arising out of defective products nor for consequential damages or otherwise except for repair or replacement of items of defective material or workmanship aforesaid.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND NEITHER ASSUMES, NOR AUTHORIZES ANY PERSON TO ASSUME FOR STONEAGE, INC. ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. THIS WARRANTY SHALL NOT APPLY TO PRODUCTS OR ANY PARTS THEREOF WHICH HAVE BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATION, ABUSE, OR MISUSE. STONEAGE, INC. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR PRODUCTS NOT MANUFACTURED BY STONEAGE, INC.

APPENDIX BJ 048-S VISCOUS FLUID

OSI SPECIALTIES INC — POLYDIMETHYLSILOXANE L-405-12500
MATERIAL SAFETY DATA SHEET Revision: 1.0 9/27/2000
==========
MSDS Safety Information
==========
MSDS Date: 9/27/2000
MSDS Num: 910000000791
Product ID: L-405-12500
Chemical Name: Polydimethylsiloxane(inhibited)
Responsible Party: Mr. Dana Dalrymple
Name: OSI SPECIALTIES INC
Address: ONE AMERICAN LANE
City: GREENWICH CT 06831-2559
Info Phone Number: 304-652-8446
Emergency Phone Number: 800-809-9998; 800-424-9300(CHEMTREC)
Published: Y
==========
Ingredients
==========
Proprietary: NO
Ingredient: POLYDIMETHYLSILOXANE
Ingredient Sequence Number: 01
Percent: <100%
CAS Number: 63148-62-9
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: PROPRIETARY inhibitors
Ingredient Sequence Number: 02
Percent: <1%
Trade secret
==========
Health Hazards Data
==========
LD50-LC50 Mixture: LD50 (ORAL RAT) IS UNKNOWN
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: ACUTE & CHRONIC: NO EVIDENCE OF ADVERSE FROM AVAILABLE INFORMATION.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Signs/Symptoms Of Overexp: No Adverse Effects.
Med Cond Aggravated By Exp: None Specified By Manufacturer.
Emergency/First Aid Proc:
INGESTION: NO EMERGENCY CARE ANTICIPATED.
SKIN:WASH WITH SOAP AND WATER.
INHALATION: NO EMERGENCY CARE ANTICIPATED.
EYES: FLUSH THOROUGHLY WITH WATER FOR SEVERAL MINUTES.
NOTES TO PHYSICIAN: THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT
==========
Handling and Disposal
==========
==========
Fire and Explosion Hazard Information
==========
Flash Point: 254°C/(490°F)
Extinguishing Media: DO NOT SPRAY A SOLID STREAM OF WATER DIRECTLY INTO BURNING LIQUID.
USE CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL.
Special Fire Fighting Proc: WEAR SELF CONTAINED BREATHING APPARATUS.
CONTAIN RUNOFF.
Unusual Fire And Expl Hazrds: MAY CAUSE FLOATING FIRE HAZARD
==========
Control Measures
==========
Respiratory Protection: NONE EXPECTED TO BE REQUIRED.
Protective Gloves: 4H, BUTYL, NEOPRENE, NITRILE(NBR), PVC COATED
Eye Protection: SAFETY GLASSES
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.
Other Protective Equipment: SAFETY SHOWER, EYE BATH
==========

Physical/Chemical Properties
==========
Appearance:
Physical state: Clear to Hazy Liquid
Color: Yellow
Odor: Mild
Other Properties:
Boiling Point: >250°C @STP unless specified below
Melting Point: <-50°C @ STP unless specified below
pH: N/A
Spec Gravity: 0.9738@25°C
Vapor Pres: <1.33hPa (1.00mmHg) @20°C
Vapor Density: Heavier Than Air
Solubility in Water: Insoluble
Evaporation Rate: <1
Flash Point: >254°C / >490°F
Upper Explosion Limit: N/A
Lower Explosion Limit: N/A
Percent Volatile: Not Determined
Molecular Weight: Polymer
==========
Reactivity Data
==========
Stability: Stable
Stability Condition To Avoid: None Known.
Materials To Avoid: Strong oxidizing agents
Hazardous Combustion Products:
Burning Can Produce The Following Combustion Products:
OXIDES OF CARBON, OXIDES OF SILICON, FORMALDEHYDE, CARBON MONOXIDE IS HIGHLY TOXIC IF INHALED;CARBON DIOXIDE IN SUFFICIENT CONCENTRATIONS CAN ACT AS AN ASPHYXIANT.
ACUTE OVEREXPOSURE TO THE PRODUCTS OF COMBUSTION MAY RESULT IN IRRITATION OF THE RESPIRATORY TRACT.
Hazardous Polymerization: Will Not Occur.
Conditions To Avoid Polymerization: None Known.
==========
Toxicological Information
==========
No information relevant to human health hazard evaluation is currently available
==========
Ecological Information
==========
Prevent Runoff
Use Absorbent To Clean Up
==========
MSDS Transport Information
==========
This product is not regulated by the DOT, IMDG, ICAO.
Freight description road: OIL, O/T PETROLEUM, LUBRICATING, NOIBN
==========
Regulatory Information
==========
CERCLA; None
SARA; None
MSL; None
EPA; None
California Prop 65; None
California SCAQMD; VOC=>0.5mmHg@ 104°C / 219.2°F **Not determined**
==========
Other Information
==========
Chemical Inventory
Europe: The ingredients of this mixture are on the EINECS inventory.
United States: The ingredients of this product are listed on the TSCA inventory or are exempt.
==========
HAZCOM Label
==========
Product ID: POLYDIMETHYLSILOXANE L-45-12500
Supplier: Crompton Corporation
Street: One American Lane
City: Greenwich, CT
Zipcode: 06831-2559, USA
Health Emergency Phone: 800-809-9998;800-424-9300(CHEMTREC)
Label Required: Yes
Health Hazard: 0
Flammability: 1
Reactivity: 0
PPE: X
==========