# GX12i

agXcel
2106 F AVE
KEARNEY NE 68847
877.218.1981

# CHEMICAL INJECTION SYSTEM

## CHEMICAL INJECTOR

***2% INJECTOR UNIT - PN#20202***
***5% INJECTOR UNIT - PN#20556***


***Fluid Flow Range:***
*0.04 gpm to 11 gpm 10-2500 l/hr*

***Injection Range:***
*0.2% to 5%*
*1:500 to 1:20*

***Operating Pressure:***
*5 to 90 psi*
*0,3 to 6,2 bar*

# INTRO

## TABLE OF CONTENTS



Please read this manual carefully before installing and operating your new GX12 Chemical Injector. This booklet has the information you will need for the use and care of your new injector unit. If you have any further questions about your injector, the warranty, routine maintenance or proper usage, please contact your nearest distributor/dealer.

These models are designed to inject liquid concentrate or soluble powder that are recommended and approved for injection into fluid systems.

It is the responsibility of the operator to determine the correct dosage settings of the unit using the chemical manufacturers' recommendation for dispensing their product, and to assure that proper dosage is being maintained.

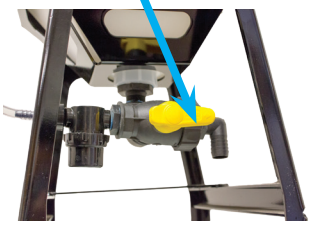
**Maintenance and Warranty**
A one year limited warranty from the original date of purchase for manufacturing or materials defects only. With proper use and care, your injector should provide you long-term performance.

**For Your Records**
The serial number of your System or injector is located on back of metal chassis OR the injector body . Please record this number in the space below and reference it when calling for information, parts and service.
Serial #.....
Date Purchased .....

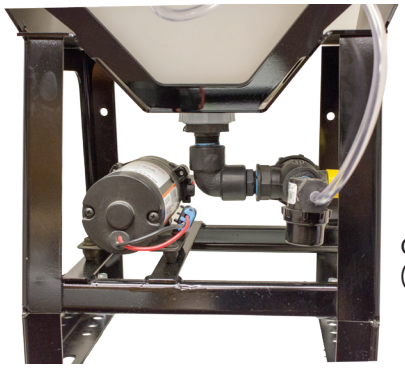
# SYSTEM CONTENTS

GX12i

*Chemical Injection System*

PN#54898 Universal mounting bracket



OPTIONAL AGITATION KIT
(PN#54742)

# SPECIFICATIONS


GX12i

*Chemical Injection System*

Injector (90 max. psi)
Model 0.2% - 2% (1:500 - 1:50)
Model 0.78% - 5% (1:128 - 1:20)
Flow Rate: 0.04 - 11 gpm (10 - 2500 l/h)
Operating Pressure: 5 - 90 psi (0,3 - 6,2 bar)
Pipe Coupling: 3/4" npt/ght/bsp

| | |
|---|---|
| Housing | Polyacetal (POM) |
| Dosing Accuracy | +/- 10% of ratio |
| Repeatability | +/- 5% |
| Maximum Temp. | 100°F/38°C |
| Minimum Temp. | 34°F/1°C |
| Maximum vertical suction of concentrate | 13 Feet/396 Centimeters |
| Maximum horizontal suction of concentrate | 49 Feet/1493 Centimeters |
| Self-Priming | Yes |
| Seal Material | Viton - acids, oils & pesticides |
| Maximum Viscosity | 2000 cP (Ex. Honey) |

| 2% RATIO TO SET % | |
|---|---|
| RATIO | SET% |
| 50 - 57 | 2.0% |
| 58 - 64 | 1.8% |
| 65 - 80 | 1.5% |
| 81 - 95 | 1.25% |
| 96 - 130 | 1.0% |
| 131 - 180 | .75% |
| 181 - 400 | .50% |
| 401 - 650 | .20% |

## ***STEPS TO CALCULATE YOUR %***

1. TAKE YOUR CHEMICAL TOTAL OZ.
2. DIVIDE THAT NUMBER BY TOTAL OZ OF CARRIER
3. MOVE DECIMAL RIGHT 2 SPACES
EX: 6oz/640 = 0.009 = .9%

| 5% RATIO TO SET % | |
|---|---|
| RATIO | SET% |
| 20 - 21 | 5.0% |
| 22 - 23 | 4.5% |
| 24 - 25 | 4.0% |
| 26 - 30 | 3.5% |
| 31 - 34 | 3.0% |
| 35 - 42 | 2.5% |
| 43 - 57 | 2.0% |
| 58 - 75 | 1.5% |
| 76 - 128 | 1.0% |

# SAFETY PRECAUTIONS AND TIPS

## Before Applying Aggressive Chemicals
Please consult your distributor, chemical manufacturer to confirm compatibility with your injector. Always wear proper safety protection as recommended by chemical supplier.

## Avoid a Potentially Hazardous Chemical Accident
Select a safe location. Chemical container should be kept away from children and/or high usage areas and the location must also not be susceptible to freezing temperatures.

## Label Fluid Lines, Valves and Connections
If the solution that is being injected is not suitable for drinking, all fluid lines should be labeled,

“Warning: Not for human consumption!”

## Fluid Temperature - Maximum Pressure
Min: 34° F (1°C) Max: 100°F (38°)
90 psi

## Keep From Extreme Temperature
Protect the injector from freezing temperatures or excessive heat.

## Before Removing Injector From The System
Release fluid pressure. While the system is in operation, turn off the incoming fluid valve. Leave the outgoing valve open. This will relieve the pressure at the injector. Injector is now safe to remove.

## Soluble Power Use
Ensure the chemical is completely dissolved before injection. Failure to thoroughly dissolve the chemical will cause premature wear to the dosage piston/gasket and the inner cylinder.

## Injector Not in Use for an Extended Period
If the injector has not been stored properly de- posits may have dried onto the motor (see Maintenance page). Before operation, soak entire unit into room temperature water approx.. 72°F for a 24 hour period.

## Rinse Injector After Each Use
Additive allowed to remain in injector can dry out, foul or damage the lower end at the next start-up.
(See Maintenance page).

## Never Use Petroleum Based Lubricants
The injector is shipped with a thin coat of silicone around the seals for ease of assembly. Petroleum based lubricants such as baby oil, WD40©, or motor oil on the O-rings or any part of the injector should never be used as this can cause particles to adhere and clog or damage the injector.

# OPERATIONS

## Clicking Sound is Normal

Fluid flowing through the injector will automatically cause the injector to "click" and inject a set amount of solution into the fluid line. The higher the flow rate the more frequent the "clicking". The injector is designed to inject solution proportionally (at the same set ratio) regardless of fluid flow. Maximum number of clicks per 15 seconds is 50.

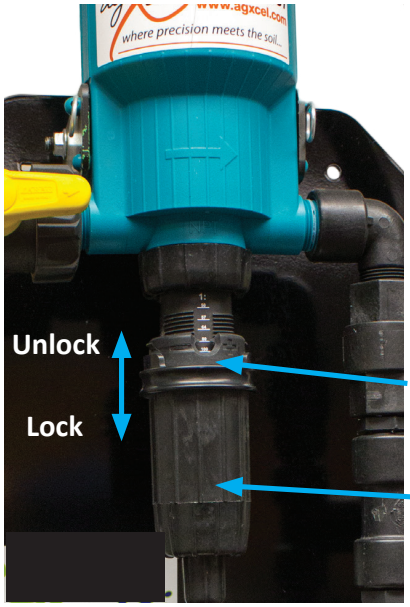
## Bleed Port

Ensure all air is out of the unit by pressing the bleeder button in until water comes out. Release bleeder button to stop water from flowing out of bleed port.

## Change Injection Rate

The feed rate on the injector is adjustable
***EVEN WHILE OPERATING AND UNDER PRESSURE.***
To change injection rate see below.

1. Lift lock ring
2. Rotate Ratio Adjuster up or down to the desired setting. Use arrows at the top of the Ratio Adjuster to line up with the desired feed rate.
3. Return ring to lock position by pushing down on ring.




| 2% RATIO TO SET % | |
|---|---|
| RATIO | SET% |
| 50 - 57 | 2.0% |
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| 65 - 80 | 1.5% |
| 81 - 95 | 1.25% |
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| 131 - 180 | .75% |
| 181 - 400 | .50% |
| 401 - 650 | .20% |

### *STEPS TO CALCULATE YOUR %*

1. TAKE YOUR CHEMICAL TOTAL OZ.
2. DIVIDE THAT NUMBER BY TOTAL OZ OF CARRIER
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EX: 6oz/640 = 0.009 = .9%

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| 24 - 25 | 4.0% |
| 26 - 30 | 3.5% |
| 31 - 34 | 3.0% |
| 35 - 42 | 2.5% |
| 43 - 57 | 2.0% |
| 58 - 75 | 1.5% |
| 76 - 128 | 1.0% |

# INSTALLATION

**STEP 1:** Locate a secure mounting position on the implement that allows the unit to stand upright and level. This will ensure that liquid in tank does not slosh and spill over during application.

**A.** The chemical injector unit has mounting holes at the base of the unit for secure mounting.
**B.** A universal mounting bracket that allows the unit to be mounted on any size bar to extend the unit out away for obstacles on the implement. This universal mounting bracket part number is #53649

**STEP 2:** Once the injection unit has been installed, feed the unit with a 3/4" hose into the supplied 3/4" hose barb end marked "Feed In". This line should come from your liquid fertilizer system.

**STEP 3:** Turn the YELLOW ball valve handle with the arrow pointed in the direction you want liquid to flow.

**STEP 4:** Turn on the liquid fertilizer system to feed the injection system with liquid. This will enable the injector unit. A clicking sound will begin as the injector begins to operate. NOTE: On the top of the unit there is a button that you need to press to allow for any air to escape the system that may have been intro- duced during the installation process. (See previous page on "Bleed Port")


***STEPS TO CALCULATE YOUR %***

1. TAKE YOUR CHEMICAL TOTAL OZ.
2. DIVIDE THAT NUMBER BY TOTAL OZ OF CARRIER
3. MOVE DECIMAL RIGHT 2 SPACES

EX: 6oz/640 = 0.009 = .9%

| Injection rate in oz/acre | Injector Ratio |
|---|---|
| 5 | 128/1 |
| 5.5 | 116/1 |
| 6 | 106/1 |
| 6.5 | 98/1 |
| 7 | 92/1 |
| 7.5 | 85/1 |
| 8 | 80/1 |

# MAINTENANCE

## Rinse Injector After Each Use
Additive allowed to remain in injector can dry, foul or damage the lower end at the next start up. Place suction tube into a 1 qt. or more container of fresh filtered water. Flow fresh water through the injector by operating until container is empty.

## Clean Internal Check Valve
Clean the internal check valve twice a day to maintain a good flow.

## Clean Solution Container
Keep covered to prevent dirt and other debris from entering the container. Rinse container thoroughly and often. Do not mix chemicals together that might react and cause a precipitate. Use FILTERED fluid when filling container.

## Clean Inlet Filter
Clean or replace inlet filter as required to increase the life of the unit as well as reduce pressure loss.

## Bypass Injector
When not in use place the injector in bypass mode by positioning arrow away from injector.

## Storage
For extended storage rinse injector using a mini- mum of 1/2 gallon (see “Rinse Injector After Each Use”). Drain water from unit. Inspect lower end seals. Apply thin coat of silicone to seals and re-assemble unit. Place plugs back into inlet/outlet and suction tube fitting.

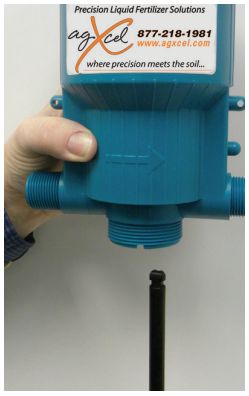
***KEEP FROM FREEZING.***

**Perform these maintenance procedures to extend the life of your unit.**

**NOTE: Maintenance intervals may vary depending on conditions of use and the chemicals being injected.**

| Every 3-6 Months | Every 6-12 Months | Replace as Necessary |
|---|---|---|
| **1.** Clean seal areas. #44<br>**2.** Clean & check #64 Seal, #68 Cylinder, clean and/or replace as necessary.<br>**3.** Clean Filters | **1.** Replace Dos-age gasket #44.<br>**2.** Clean and/or replace Check Poppet, inside #11 Suction Tube Fitting. | **1.** #68 Cylinder<br>**2.** #64 O-ring/ gasket<br>**3.** Motor Piston #9<br>**4.** #51 & #44 Shaft Assembly Dosage gasket<br>**5.** Check Valve Assembly & Tubing |


**STEP 1:** Unscrew and remove lower end from assembly.



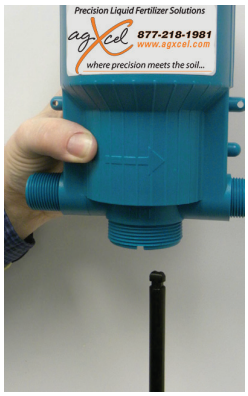

**STEP 2:** Pull down on shaft, rotate shaft 90° and remove.

**STEP 3:** Remove shaft with gasket and install new. If damage on sealing surface of shaft, replace shaft.


**STEP 4:** Hold body firmly and un- screw the lid. If lid is tight, use 1' socket to loosen.


**STEP 5:** Remove motor piston from pump body.


**STEP 6:** Place new motor piston carefully into pump body and replace lid.




**STEP 7:** Place shaft into the motor piston.


**STEP 8:** Rotate shaft 90° to lock into place. Gently pull down to ensure shaft is locked.


**STEP 9:** Replace lower end assembly onto the pump body.

# TROUBLESHOOTING

| Problem | Cause | Solution |
|---|---|---|
| **No Clicking Sound** | Fluid not flowing through unit | Are the red plugs at the inlet, outlet and suction tube fitting openings removed?<br>Is the unit installed backward? The arrow on the unit must point in the direction of the fluid flow.<br>If still not clicking, do not open the upper body. Call AgXcel Systems Customer Service. |
| | Fluid flowing through unit | Fluid rate is below or exceeds rated service flow of injector. (see Specifications for maximum flow rate page 4). Maximum number clicks = 50 in 15 seconds.<br>Ensure all air is out of the unit by pressing the bleeder button in until water comes out.<br>If below increase flow rate, if above, reduce flow rate.<br>Operating pressure exceeds maximum limit. Install a pressure reducer valve. (see Specifications for maximum flow rate page 4). |

## Injector in Operation or After Scheduled Maintenance

| Problem | Cause | Solution |
|---|---|---|
| **No Clicking Sound** | Air trapped in unit | Release trapped air by pressing the bleeder button in until water comes out. |
| | By-Pass Valve not open | Set Valve to the closed position. |
| | Broken Springs | Replace Springs #18, Clean Fluid Filter. |
| | Dirty or plugged inlet filter | Ensure mesh size is correct for proper filtration. Clean filter. |
| | Main Piston Assembly #9 worn | Replace #9 Main Piston Assembly. Clean fluid filter. |
| | Main body #1 worn or scored | Replace Body & Piston. |

| Problem | Cause | Solution |
|---|---|---|
| **Clicking Sound No Suction Of Solution** | Cracked or loose Suction Hose | Check for proper fit and /or replace. |
| | Dosage gasket #44 worn or installed incorrectly | Replace. Ensure during maintenance replacement that #44 dosage gasket was installed correctly. |
| | Suction tube #25 or suction tube fitting #11 cracked, leaking or clogged suction tube filter | Replace and/or clean as necessary. |
| | Check valve #11 leaking | Clean and/or replace as necessary. |

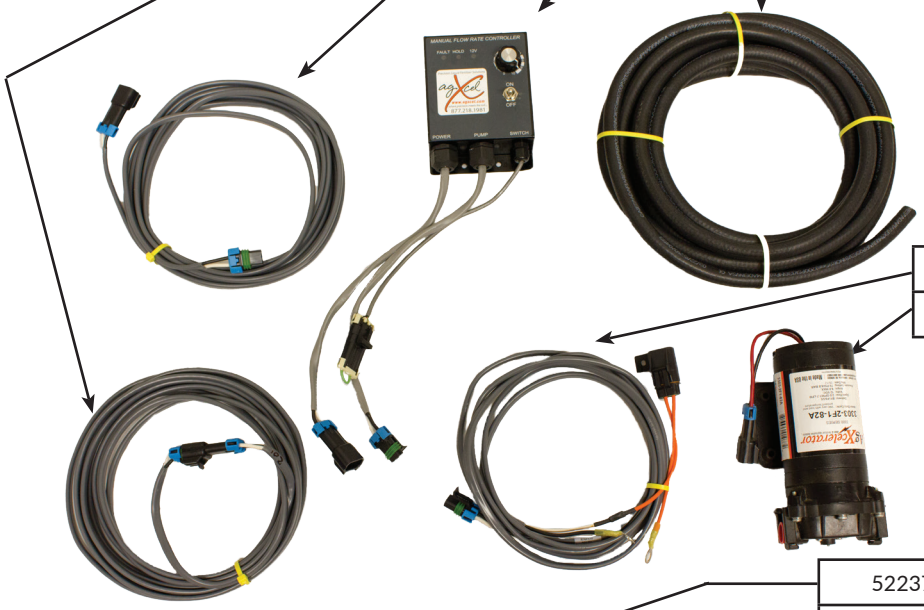
| Problem | Cause | Solution |
|---|---|---|
| **Clicking Sound. Under Injecting or Unit operates at high-flow and not at low flow** | #44 Dosage gasket worn | Replace. |
| | #68 Inner Cylinder worn | Replace Inner Cylinder and Gasket #44 |
| | Broken Springs | Replace Springs, Clean Fluid Filter. |
| | Main Piston Assembly #9 worn | Replace #9 Main Piston Assembly. Clean fluid filter. |
| | Main body #1 worn or scored | Replace Body & Piston |

| Problem | Cause | Solution |
|---|---|---|
| **Fluid Re-filling Solution Tank** | Check valve #11 leaking or dirty | Check seat area on suction tube fitting #11. Check valve and seal must fit loose in the suction tube fitting. Clean seal and inside fitting for debris. |
| | Washer seal on #11 is swollen or chemical attack | Replace with new check valve assembly. |

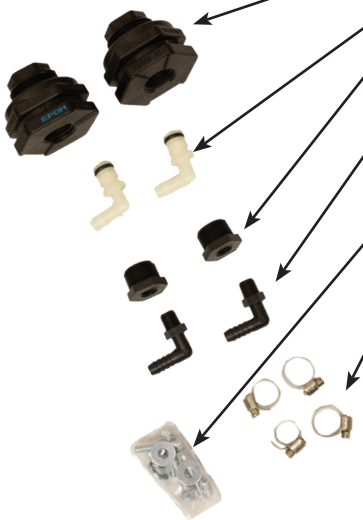
GX12i
Chemical Injection System

## AGITATION KIT (Optional)
## PN# 54742

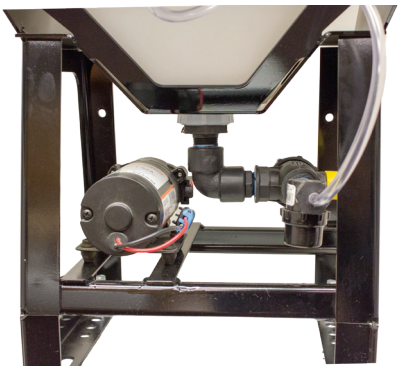
| AGITATION KIT | | |
|---|---|---|
| PN# | ITEM | QTY |
| 53660 | 20FT EXTENSION | 1 |
| 18113 | 15FT EXTENSION | 1 |
| 17934 | MANX | 1 |
| 17614 | 3/8 BLK HOSE | 2FT |



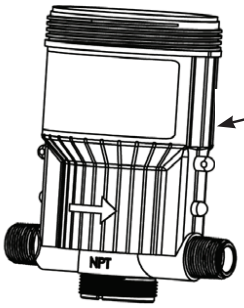
| | | |
|---|---|---|
| 17944 | BATTERY CABLE | 1 |
| 20003 | 2.0 GPA PUMP | 1 |



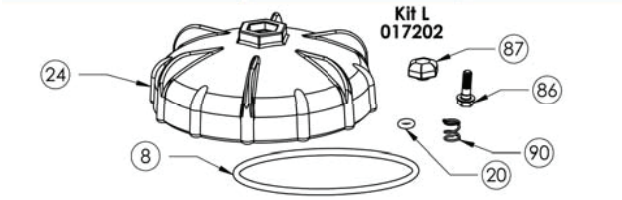
| | | |
|---|---|---|
| 52237 | REDUCER | 2 |
| 38214 | 3/8 ELBOW HB | 2 |
| 32433 | 3/4 REDUCER | 2 |
| 32324 | ELBOWS | 2 |
| 20381 | PUMP BOLT KIT | 1 |
| 38412 | #6 CLAMPS | 4 |



# REPAIR PARTS



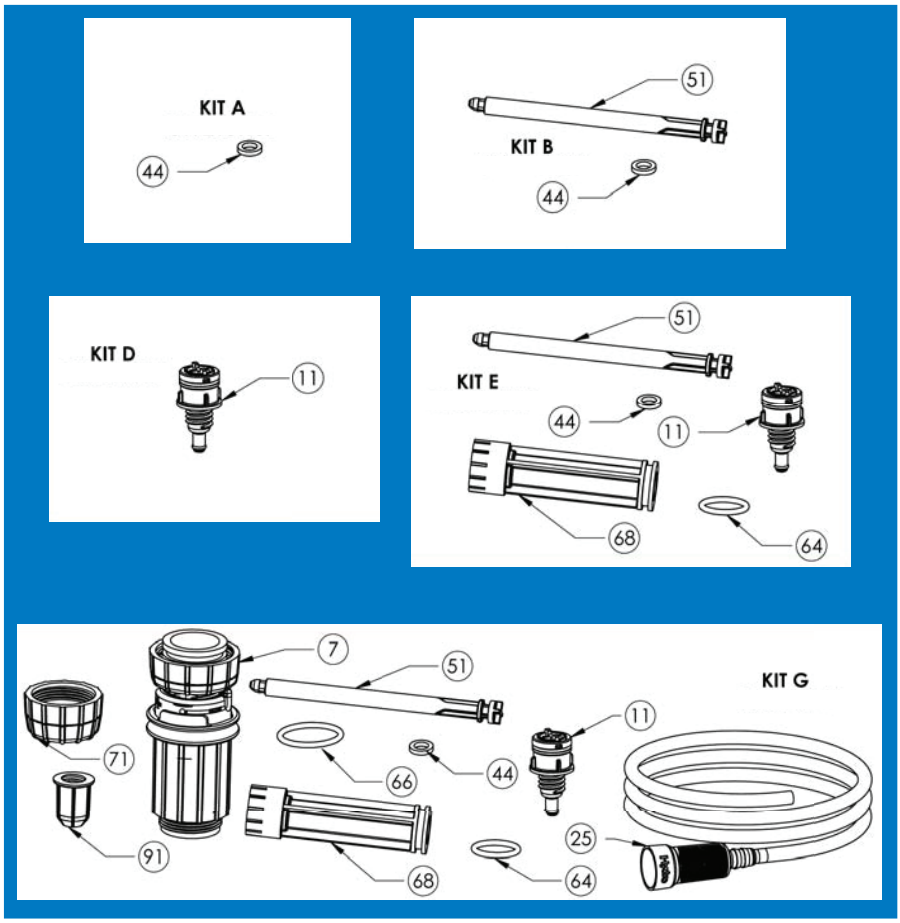

| INJECTOR REPLACEMENT PARTS | | |
|---|---|---|
| KIT# | PN# | ITEM |
| 102801NPT | 54496 | BODY, ADJUSTABLE GX12i NPT |
| KIT H-017200 | 54492 | MOTOR PISTON REPLACEMENT |
| KIT L-017202 | 54494 | REPLACEMENT COVER KIT |

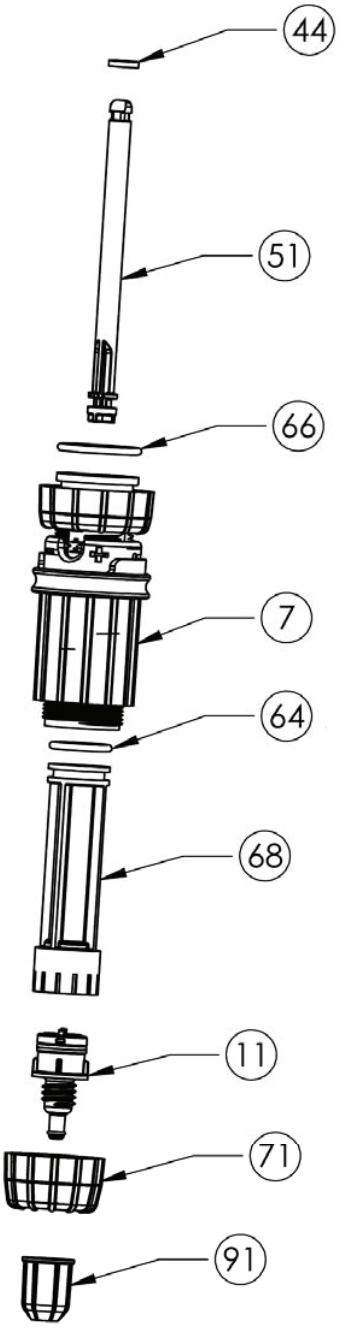



**Kit H WSP: Motor piston kit**

Motor piston assembly

**Change as needed**



## Kit A: Dosage gasket kit

Dosage gasket

**Light Usage:**
Change every 6-12 months

**Medium Usage:**
Change every 6 months

**Heavy Usage:**
Change every 3-4 months

## Kit B: Wear kit

Dosing gasket, shaft

**Change as needed**

## Kit D WSP: Check valve kit

Suction tube fitting assembly (poppet, O-ring, spring, fitting)

**Change as needed**

## Kit E: Wear parts maintenance kit

Inner cylinder, shaft and check valve

**Change as needed**

## Kit G WSP: Complete lower end kit

Dosing gasket, O-ring, shaft, gasket, inner cylinder and check valve, outer cylinder, ratio adjuster, O-rings, pin, filter, solution tube with strainer filter

**Change as needed**

| Every 3 - 6 Months | Every 6 - 12 Months | Replace as Necessary |
|---|---|---|
| 1. Clean Seal areas #44.<br>2. Clean & Check #64 Seal, #68 Cylinder, clean and/or replace as necessary.<br>3. Clean Filters | 1. Replace Dosage gasket #44.<br>2. Clean and/ or replace Check Poppet, inside #11 Suction Tube Fitting. | 1. #68 Cylinder<br>2. #64 O-ring/Gasket<br>3. Motor Piston #9<br>4. #51 and #44 Shaft Assembly Dosage gasket<br>5. Check Valve Assy and Tubing |

**NOTE:** Maintenance intervals may vary depending on conditons of use and the chemicals being injected.

**All references come with standard Viton seals.**

| 2% INJECTOR MAINTENANCE KITS | | |
|---|---|---|
| **KIT#** | **PN#** | **ITEM** |
| KIT A-017210WSP | 54527 | AQUA BLEND 2% WSP WEAR KIT A VITON |
| KIT B-017211WSP | 55532 | AQUA BLEND 2% ADJ. WEAR KIT B VITON |
| KIT D-017213WSP | 54528 | AQUA BLEND 2% ADJ. WEAR KIT D CHECK VALVE VITON |
| KIT E-017214WSP | 55541 | AQUA BLEND 2% ADJ. WEAR KIT E VITON |
| KIT G-017216WSP | 55542 | AQUA BLEND 2% ADJ. WEAR KIT G LOWER REPLACEMENT VITON |

| 5% INJECTOR MAINTENANCE KITS | | |
|---|---|---|
| **KIT#** | **PN#** | **ITEM** |
| KIT A-017220WSP | 55524 | AQUA BLEND 5% WSP WEAR KIT A VITON |
| KIT B-017221WSP | 55540 | AQUA BLEND 5% ADJ. WEAR KIT B VITON |
| KIT D-017223WSP | 55525 | AQUA BLEND 5% ADJ. WEAR KIT D CHECK VALVE VITON |
| KIT E-017224WSP | 55526 | AQUA BLEND 5% ADJ. WEAR KIT E VITON |
| KIT G-017226WSP | 55527 | AQUA BLEND 5% ADJ. WEAR KIT G LOWER REPLACEMENT VITON |

## DEFINITIONS:

**LIGHT USAGE:** Injector is used once a week

**MEDIUM USAGE:** Injector is used 3-4 times each week

**HEAVY USAGE:** Injector is used 24 hours a day, seven says a week

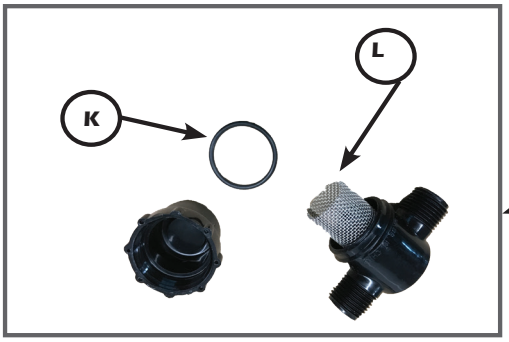
# BREAKDOWN

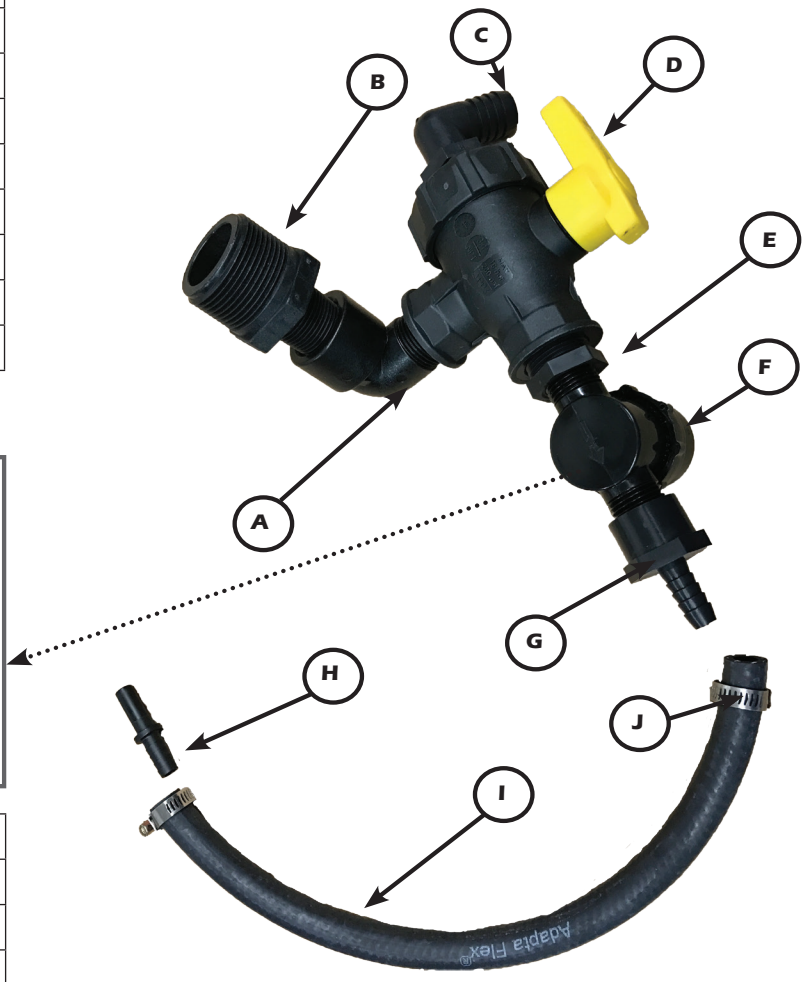
GX12i

*Chemical Injection System*

| CHEMICAL INJECTOR - COMPLETE UNIT | | |
|---|---|---|
| % | PN# | ITEM |
| 2% | 20202 | 2% COMPLETE UNIT WITH UBOLTS |
| 5% | 20556 | 5% COMPLETE UNIT WITH UBOLTS |

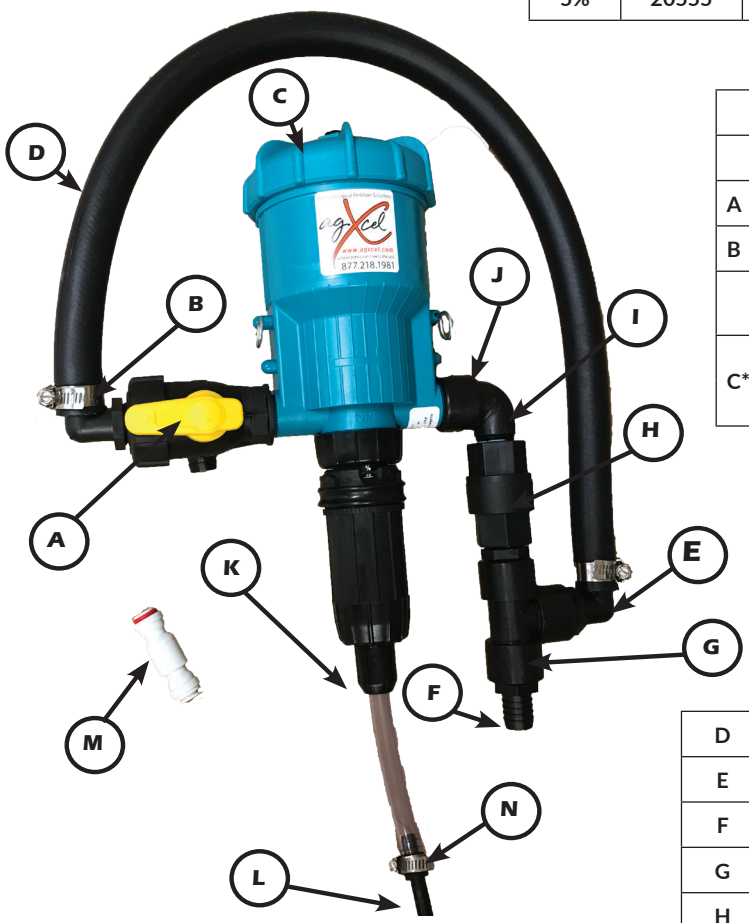
| INJECTOR LOWER PLUMBING | | | |
|---|---|---|---|
| PN# | | QTY# | ITEM |
| A | 52146 | 1 | 3/4 X 90D ELBOW |
| B | 52108 | 1 | 1-1/4 X 3/4 REDUCER |
| C | 32331 | 1 | 3EL34 POLY ELBOW |
| D | 37667 | 1 | 3/4 3 WAY BALL VALVE |
| E | 32432 | 1 | 3/4 X 1/2 BUSHING |
| F | 31209 | 1 | MINI STRAINER W/20MESH |
| G | 32272 | 1 | 1/2" FEMALE TO 3/8" BARB |
| H | 20808 | 1 | 3/8 STEM X 3/8 BARB |
| I | 17614 | 3FT | 3/8" BLACK HOSE |
| J | 17649 | 2 | SS HOSE CLAMPS #6 |




| *PARTS INSIDE MINI STRAINER PN#31209 | | | |
|---|---|---|---|
| K | 30015 | 1 | GASKET - BUNA |
| L | 54426 | 1 | 20 MESH SCREEN |
| OPTIONAL MESH SCREEN/GASKET SOLD SEPARATELY | | | |
| 30300 | | 80 MESH SCREEN | |
| 30013 | | GASKET - VITON | |

| INJECTOR COMPLETE UPPER PLUMBING | | |
|---|---|---|
| % | PN# | ITEM |
| 2% | 20549 | 2% PLUMBING KIT - UPPER UNIT |
| 5% | 20555 | 5% PLUMBING KIT - UPPER UNIT |




| INJECTOR UPPER PLUMBING COMPONENTS | | | |
|---|---|---|---|
| PN# | | QTY# | ITEM |
| A | 37667 | 1 | 3-WAY BALL VALVE |
| B | 19646 | 2 | CLAMP(S) #12 |
| ONLY ONE OF THE BELOW FOR PART C DEPENDING ON PERCENT OF INJECTOR | | | |
| C* | 54108 | 1 | 2% INJECTOR |
| | 53513 | 1 | 5% INJECTOR |
| D | 308 | 2FT | 3/4" BLACK HOSE |
| E | 32331 | 3 | 3EL34 POLY ELBOW |
| F | 18005 | 1 | AL34P-POLY HOSE BARB |
| G | 52214 | 1 | 3/4" POLY PIPE TEE |
| H | 32399 | 1 | 3/4 THREADED NIPPLE |
| I | 54022 | 1 | 3/4" 1# IN LINE CHECK VALVE |
| J | 52146 | 1 | 3/4 X 90D ELBOW |
| ONLY ONE OF THE BELOW FOR PART K DEPENDING ON PERCENT OF INJECTOR | | | |
| K* | 55176 | 1 | HOSE NUT FOR 2% |
| | 55523 | 1 | HOSE NUT FOR 5% |
| L | 20808 | 1 | 3/8 STEM X 3/8 BARB |
| M | 54207 | 1 | 3/8 CHECK VALVE .3PSI |
| N | 17649 | 1 | SS HOSE CLAMPS #6 |

Pro Tip!

### Keep From Extreme Temperature

Protect the injector from freezing temperature or excessive heat.

### Rinse Injector After Each Us

Additives allowed to remain in injector can dry out, foul or damage the lower end at the next start-up.

### Injector Not in Use for an Extended Period

If the injector has not been stored properly deposits may have dried onto the motor. Before operation, soak entire unit into room temperature water approximately 72°F (22°C) for a 24 hour period.

# Warranty

**Congratulations on Your Purchase**
We make the best and most reliable fluid-driven injectors available. AgXcel will provide for replacement of all parts proven to be defective in material or workmanship from the date of purchase for the following periods:

| | |
|---|---|
| 1 year | **Covers your unit from manufacturing and material defects only.** |

AgXcel products are warranted to be free from defects in materials and workmanship for the above time frames. AgXcel will at its sole option repair or replace any component that fails in normal use. Any repairs made under warranty shall not extend the initial warranty period.

**To Maintain Your Warranty**
Your only responsibility is ordinary maintenance - filtering incoming fluid, replacing the O-ring and dosage piston/ gasket when worn. Seals and O-rings are not covered under the warranty.

This warranty is not valid if the defects are found to be due to the product's misuse, lack of maintenance, fluid impurities such as sand or iron, defective installation, freezing, fluid hammer, abuse, unwanted side effects due to the chemicals you choose to inject or service provided by anyone who is not an authorized service provider. AgXcel declines any responsibility if the product is not used in compliance with the operating instructions and specifications as indicated in this owner's manual.

IN NO EVENT SHALL AGXCEL BE LIABLE FOR ANY INCIDENTAL, SPECIAL; INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT.

There is no warranty expressed or implied relating in any way to products used in conjunction with AgXcel.

AgXcel or authorized distributor shall not be liable for incidental or consequential damage, such as any economic loss. AgXcel retains the exclusive right to repair or replace the product. Such remedy shall be your sole and exclusive remedy for any breach of warranty. There are no warranties, expressed or implied, which extend beyond those described above.



**To Return an injector for Warranty or Non-Warranty repair:**

**Contact AgXcel or your local distributor for return information.**

*Precision Liquid Fertilizer Solutions*

agXcel

2106 F Ave, Kearney NE 68847
**877.218.1981**

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