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# NINJA EZ FILL SYSTEM - REBUILD KIT INSTRUCTIONS

Thank you for choosing the Ninja EZ Fill System, a made in the USA product.

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## If the unit leaks whenever tanks has air:

Check all fittings on the system by spraying the fittings with window cleaner, the bubbles will show any leaks with the fill valve, gauges, burst or/flange connection with the tank. If there are no bubbles on those items or the unit leaks from the end of the hose, the issue is with the valve seat.

## If your leak is at the:

**Neck leaks:** remove the unit from the bottle and change the O-ring. The proper O-ring should be used.

**Leaks from the end of the hose:** if the unit leaks from the end of the hose, the valve seat (#4 & #5) needs to be removed and replaced.

## If the unit leaks only when refilling:



**ONLY WORK ON A COMPLETELY EMPTY AIR SYSTEM!**



**ALWAYS WEAR EYE PROTECTION, GLOVES AND POINT THE AIR SYSTEM IN A SAFE DIRECTION PRIOR TO DEGASSING THE SYSTEM!!!**

No need to remove the valve from the tank, just make sure the tank is completely empty.

Hold the fill valve with a ½" (OFV style) or 7/16" (1/8" NPT style) deep socket and short extension. Then using a wrench on the flats of the flange (#1) turn the body (#8) off of the flange (#1), counter clockwise like a normal bolt. Be careful as the ball and spring (#2 & #3) may fall out of the flange (#1) / body (#8) pocket.

The ball (#3) and spring (#2) may fall out but if not, remove the spring from the flange (#1). Make sure you clean the ball (#3) and spring (#2) inside the flange (#1).

Remove the upper assembly from the unit – see instructions for LEAKS OUT THE TOP, UPPER ASSEMBLY.

After removing all upper assembly components use a long 5/64" allen wrench and insert the allen wrench into the hole in the body (#8) from the top. The allen wrench will contact the seat (#4 with #5 installed) and allow you to push the seat (#4 & #5) out through the body (#8). A .081 to .085 rod may also be used to remove the seat (#4 with #5 installed).

Once removed, clean the inside of the body (#8) where the seat (#4 & #5) goes with compressed air and a cotton swab paying close attention to clean where the seat (#4 & #5) and O-ring are located in the body (#8). Make sure the entire body (#8) and flange (#1) internal area is completely clean and blowing it out with air once swabbed is recommended.

To reassemble make sure the seat O-ring (#5) is lubed with silicone lube – DO NOT USE ANY OIL.

Using a larger allen wrench or a blunt object push the seat (#4 & #5) into the body (#8). Make sure the seat (#4 & #5) is flat and is fully seated into the body (#8). When pushing on the seat (#4 & #5) you should feel a slight resistance and then the seat (#4 & #5) popping into the correct location.

Holding the flange (#1) up and down, insert the spring (#2) into the flange pocket and then place the ball (#3) on top of the spring (#2). Then screw the body (#8) on top of the flange assembly (#1, #2, #3).

Turn the valve over and follow the reassembly instructions from the upper assembly.

Check the output gauge threads and output hose threads on the system by spraying the fitting with window cleaner while the unit is pressurized and filling an Air gun. The bubbles will show any leaks with the threads of the output gauge or with either end of the micro bore hose. If there are no bubbles on those items of the unit leaks from the female quick disconnect or the top of the unit see below for the proper procedure.

**Thread Leaks:** if the unit leaks from any of the output thread connections follow the instructions above for removal and reinstallation of the output gauge or micro bore hose.

**Female Quick Disconnect (QD):** If the unit leaks at the female QD while attached to the male it is the O-ring inside the female QD. The O-ring is a .010 (#5) size and is located behind the ball bearing in the female QD. Remove the old O-ring with a pick and then squeeze the new O-ring into the groove. Starting with one end of the O-ring in the groove and then using a blunt object to push the other side in will usually get it in place.

**Leaks Out the Top:** if the unit leaks out the top (upper assembly) while filing, the .004 O-ring (#15) located inside the unit needs to be replaced with a new O-ring.

Remove the setscrew (#14) that holds the top of the unit in place – 5/64" allen wrench.

Unscrew the top of the unit- actuator plug assembly (#20 & #21) – from the body (#8). A wrench may be needed to get the assembly started unscrewing but take care not to damage the body (#8) or the assembly.

Unscrew the housing nut (#19) by using a 3/4" thin wall socket. Counter clockwise will remove the nut and remove fully.

Remove the actuator shaft (#18) and return spring (#17) from the unit. Clean and inspect the shaft (#18), replacing the shaft is usually not needed unless it is bent.

Using a 3/16" allen wrench remove the O-ring jam nut (#16).

The .004 O-ring (#15) is located in the pocket and a pick will remove the O-ring but take care not to damage or scratch the internals during the removal.

Make sure the unit is clean.

Reassembly is the reverse, lube and install the .004 O-ring (#15) by pushing it into place with a blunt object.

Screw the O-ring jam nut (#16) into place – snug and do not over tighten or torque it in.

Place the return spring (#17) in the unit and insert the shaft (#18) into the unit.

Install the housing nut (#19) into place. You may need to push down on the shaft with an allen wrench through the drive hole of the socket to get the nut (#19) to start catching the threads. Do not over tighten.

Install #20, #21, and #22 in place and install the setscrew (#14).

**Unit continues to vent once the knob is all the way up:** if you use the EZ Fill System and have filled your air gun and have turned the knob (#22) all the way up and the unit continues to vent out the top it is the valve seat (#4 & #5) or the male fill nipple on the air gun. Let the unit vent until it stops and verify if the bottle is empty or the air gun. If the bottle is empty, follow the procedure to replace the valve seat (#4 & #5) inside the body (#8).

If the air gun is empty a new fill valve will be needed on the air gun and follow the air gun instructions for fill valve replacement.

**Unit does not vent and air is in the hose and showing on output gauge:** if you fill the Air gun and turn the knob (#22) all the way to vent but no venting occurs and there is air showing on the output gauge (#12) and you are unable to remove the female quick disconnect due to pressure. If this is the case you need to drain the system by loosening the burst disc (#9) with a 3/8" box end wrench. Just loosen the burst disc (#9) until the system starts to leak and leave it to vent until it stops. Once it has stopped venting, activate the knob (#22) and allow the air trapped in the hose to vent out of the burst disc (#9) and then tighten the burst disc (#9) following the instructions below.

Once the unit is drained, remove the hose (#13) from the air gun and remove the upper half assembly following the directions above. Make sure the spring (#17) is in good condition, the shaft (#18) is straight and not bent and the O-ring jam nut (#16) is not too tight. If the O-ring jam nut (#16) is too tight this will cause the O-ring (#15) not to release from the shaft (#18) and not allow the unit to vent properly. Change the .004 O-ring (#15) with a new O-ring.

Reassemble the unit with the instructions above.

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**We are always here to help with customer service and technical support, call (815) 477-0007**

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**Video guides can be found on the Ninja YouTube channel: [www.YouTube.com/user/Ninja186](http://www.YouTube.com/user/Ninja186)**

|    |                       |                |
|----|-----------------------|----------------|
| 1  | flange                | EZ200-01       |
| 2  | ball spring           | LC-026C-10M    |
| 3  | .25" ball             | 9528K15        |
| 4  | seat                  | FP700-01       |
| 5  | seat o-ring           | 010-70B        |
| 6  | stem o-ring           | 112-70B        |
| 7  | flange to body o-ring | 013-70B        |
| 8  | body                  | fv100-11001blk |
| 9  | bottle burst disk     | 75K or 5k      |
| 10 | mini fill valve       | NINJAMFV       |
| 11 | bottle pressure gauge | HPFGAUGEPSIBAR |
| 12 | output pressure gauge | HPFGAUGEPSIBAR |
| 13 | output hose assmbly   | EZHOSEASSY     |
| 14 | set screw             | 8-32x1/8BLK    |
| 15 | shaft o-ring          | 004-90U        |
| 16 | shaft o-ring jam nut  | FP400-01       |
| 17 | return spring         | LC-026C-10M    |
| 18 | shaft                 | FP300-01       |
| 19 | housing nut           | FP600-01       |
| 20 | actuator screw        | fvfs200blk     |
| 21 | actuator nut          | fvfs300blk     |
| 22 | knob                  | 6214k39        |
| 23 | QD O-Ring             | 010-70B        |

