

**SPECIFICATIONS**

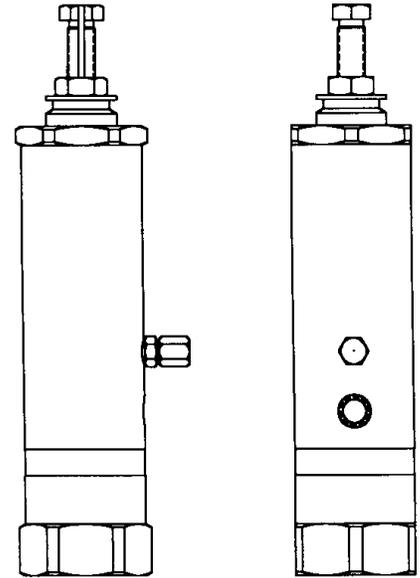
For dispensing fluid lubricant or grease.  
Output is adjustable from .05 cu. in. to .5 cu. in.

**MATERIALS**

Packings are compatible with common synthetic and petroleum based lubricants.

**OPERATING PRESSURE**

- 1000 PSI Minimum
- 2500 PSI Recommended
- 3500 PSI Maximum
- 800 PSI Maximum Recharge Pressure

**DESCRIPTION**

SL-11 Series injectors are designed for applications requiring large volumes of grease. They are supplied with packings compatible with synthetic and petroleum based greases. Available only as a single unit with 1/2 NPT inlet, and 1/4 NPT outlet. The SL-11 injector incorporates a hydraulic filler fitting for priming the feed line.

**Output Adjustment:**

The SL-11 injector's output is adjusted with the hex screw on top of the unit. A minimum output of approx. .050 cu. in. is obtained when the adjusting screw is turned clockwise, into the injector, hand tight. To obtain the maximum output of .50 cu. in., start at the minimum setting and turn the screw counterclockwise 12 3/4 turns, out of the injector. When the injector is adjusted to a half turn open or less, output from the injector should be verified.

**Disassembly Instructions:**

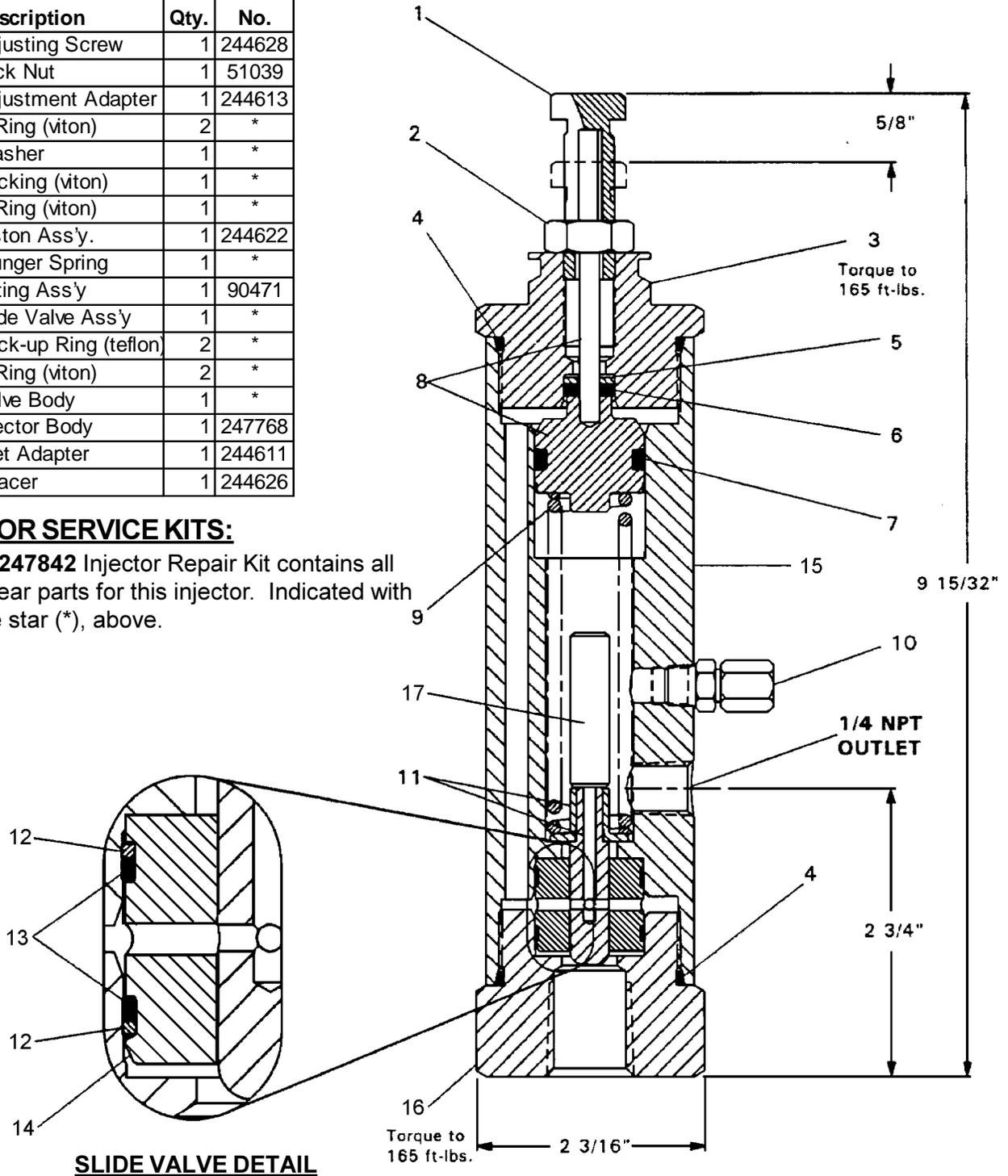
1. Remove the adjustment adapter (item #3) from the top of the injector. Remove the piston assembly (item #8), spring (item #9), and spacer (item #17) from inside the injector.
2. Remove the inlet adapter (item #16) from the bottom of the injector. To remove the slide valve assembly (item #11), turn injector over, with the top pointing down. If the slide valve does not fall out, it may be pushed out of the valve body assembly (item #14) with a blunt object.
3. To remove the valve body (item #14):
  - a. If it sticks in the inlet adapter (item #16), gently pry the valve body out of the inlet adapter using a small round rod. Place the rod into a hole in the side of the valve body and pry against the face of the inlet adapter. Work one hole at a time, working around the valve body until it is freed.

**SERVICE PARTS**

Item No.	Description	Qty.	Part No.
1	Adjusting Screw	1	244628
2	Lock Nut	1	51039
3	Adjustment Adapter	1	244613
4	O-Ring (viton)	2	*
5	Washer	1	*
6	Packing (viton)	1	*
7	O-Ring (viton)	1	*
8	Piston Ass'y.	1	244622
9	Plunger Spring	1	*
10	Fitting Ass'y	1	90471
11	Slide Valve Ass'y	1	*
12	Back-up Ring (teflon)	2	*
13	O-Ring (viton)	2	*
14	Valve Body	1	*
15	Injector Body	1	247768
16	Inlet Adapter	1	244611
17	Spacer	1	244626

**INJECTOR SERVICE KITS:**

**Part No. 247842** Injector Repair Kit contains all normal wear parts for this injector. Indicated with the single star (\*), above.



b. If the valve body sticks in the injector body, turn injector right side up and use a 7/16 to 1/2" brass or wooden dowel rod to gently tap the valve body out of the injector body.

4. To remove the indicator stem packing (item #6) from the adjustment adapter (item #3), remove the adjustment screw (item #1) from the adjustment adapter. Use a blunt object, such as a wooden dowel, placed into the adjustment screw hole to gently push the washer (item #5) and packing out of the adjustment adapter, from the bottom side.

### **Reassembly Instructions:**

1. Clean all injector components, and carefully inspect all parts for wear, replacing parts as necessary. (See trouble shooting chart for guidance.)

2. Install the O-Rings (items #13) and backup rings (items #12) into the grooves on the outside of the valve body. Apply a liberal amount of grease to O-Rings on outside of valve body, and gently push the valve body into the inlet adapter (item #16).

3. Install O-Ring (item #4) onto the inlet adapter (item #16). Install inlet adapter into the injector body, and tighten by hand assuring that the valve body slides into it's respective bore in the injector body. Tighten the inlet adapter to the injector body.

4. Apply a liberal coating of grease to the slide valve assembly (item #11). Insert the slide valve assembly through the top of the injector into the valve body (Item #14). Apply a liberal coating of grease to the piston bore in the injector body. Drop in the spring (item #9), and place the spacer (item #17) inside the spring.

5. Install the O-Ring (item #7) on the piston assembly (item #8). Apply a liberal coat of grease to the piston, O-Ring and indicator rod. Place the piston assembly into the piston bore of the injector body. Install O-Ring on adjustment adapter (item #3). Install washer (item #5) and packing (item #6) into adjustment adapter. Apply grease to the O-Ring on the adjustment adapter and the mating bore in the top of the injector body. Carefully slide the pre-assembled adjustment adapter over indicator pin on the piston assembly (item #8), screw adjustment adapter into the injector body hand tight, then tighten with wrench. Reinstall adjustment screw item #1) into adjustment adapter.

### TROUBLESHOOTING CHART

External leakage at body.	Damaged or worn body O-Rings.	Replace O-Rings (item #4).
External leakage at fitting assembly.	Loose Cap	Tighten Cap.
	Damaged Fitting	Replace fitting (item #10).
External leakage at indicator rod.	Worn or damaged indicator rod packing	Replace packing (item #6)
	Worn or damaged indicator rod.	Replace piston ass'y. (item #8).
Lubricant volume to bearing LOW.	Output adjustment screw setting incorrect.	Adjust to proper setting and lock with lock nut.
	Worn or damaged LOWER slide valve body O-Ring.	Replace O-Rings and back-up rings (items #13 & #12).
	Plunger spring broken or worn.	Replace spring (item #9).
Lubricant volume to bearing too HIGH.	Output adjustment screw setting incorrect.	Adjust to proper setting and lock with lock nut.
	Worn or damaged UPPER slide valve body O-Ring.	Replace O-Rings & back-up rings (items #12 & #13). ©
	Plunger spring broken.	Replace spring (item #9).
	Worn or damaged slide valve ass'y.	Replace slide valve ass'y (item #11).

**RETAIN THIS INFORMATION FOR FUTURE REFERENCE**

When ordering replacement parts, list: Part Number, Description, Model Number and Series Letter.  
LINCOLN provides a Distributor Network that stock equipment and replacement parts.