Dillon Precision Products, Inc.

8009 E. Dillon's Way Scottsdale, AZ 85260

Technical Support • (800) 223 4570
(480) 948-8009 • FAX: (480) 998-2786

Powdercheck System Instructions

Attention Super 1050/RL1100 Users

You will find a washer (14157) and nut (13898) included in your package. These are to be used on the RL1050/Super1050/RL1100 only. They are used in such a manner as to cause the washer to contact the steel frame casting. Place the washer (14157) on the push rod screw (14037) and then use the nut (13898) to lock the washer in place. Use the other parts in the usual manner. **See Fig. 1**

Before you begin: this item does not check the accuracy of the powder charge, it checks for **double-charges** or **no-charges** *only*.

Step 1: Begin by selecting the powder check rod size you will be using. Three sizes included in the package are: .22 cal. (21372), .30 cal. (21373) and .44-.45 cal. (21374).

Place the lock nut (13898) and the grooved sleeve (12685) on the appropriate powder check rod, grooved end up. See caliber chart below the schematic on the back of this sheet.

Step 2: Remove the checker die body (13990) from the powdercheck assembly by loosening the set screw (13895). Thread the die into your XL 650/750 or 1050/1100 toolhead in the station after the powder measure. Thread it down until it is approxi-mately 1/8"-1/4" above the shellplate and snug the lock ring (14067) into place.

Step 3: Place the powdercheck assembly on the checker die body (13990). Center the black push rod (13603) in the hole that is to the left of the die. Now snug the die clamp screw (13895).

Step 4: Now take the 10-24 screw (14037) and nut (13898) and thread them fully into the rod (13603). Note: If this screw is left too far out, the plastic housing (13538) will break. Cycle the handle on your XL 650/750 or 1050/1100 down. The screw will contact the edge of the platform. The buzzer will rock up into the side of the die collar. If needed, adjust the screw in one-half turn increments downward until contact is made, then snug the nut (13898) in place.

Step 5: Install the powder check rod you have selected, brass end down, into the die collar (10552).

Using a properly charged case in station 3, cycle the handle down.

The point of the contact pin (13602) must center itself in the groove of the grooved sleeve (12685). If the unit beeps, you may need to turn the grooved sleeve up or down on the powder check rod until you arrive at the correct adjustment. Then snug the lock nut (13898).

Step 6: Testing your powder checker:

With a properly charged case in station 3, cycle the handle on your XL 650/750 or 1050/1100 down. The point of the contact (13602) should go into the groove and not sound the buzzer. If it does not enter the groove adjust the powder check rod as needed
(see step 5).

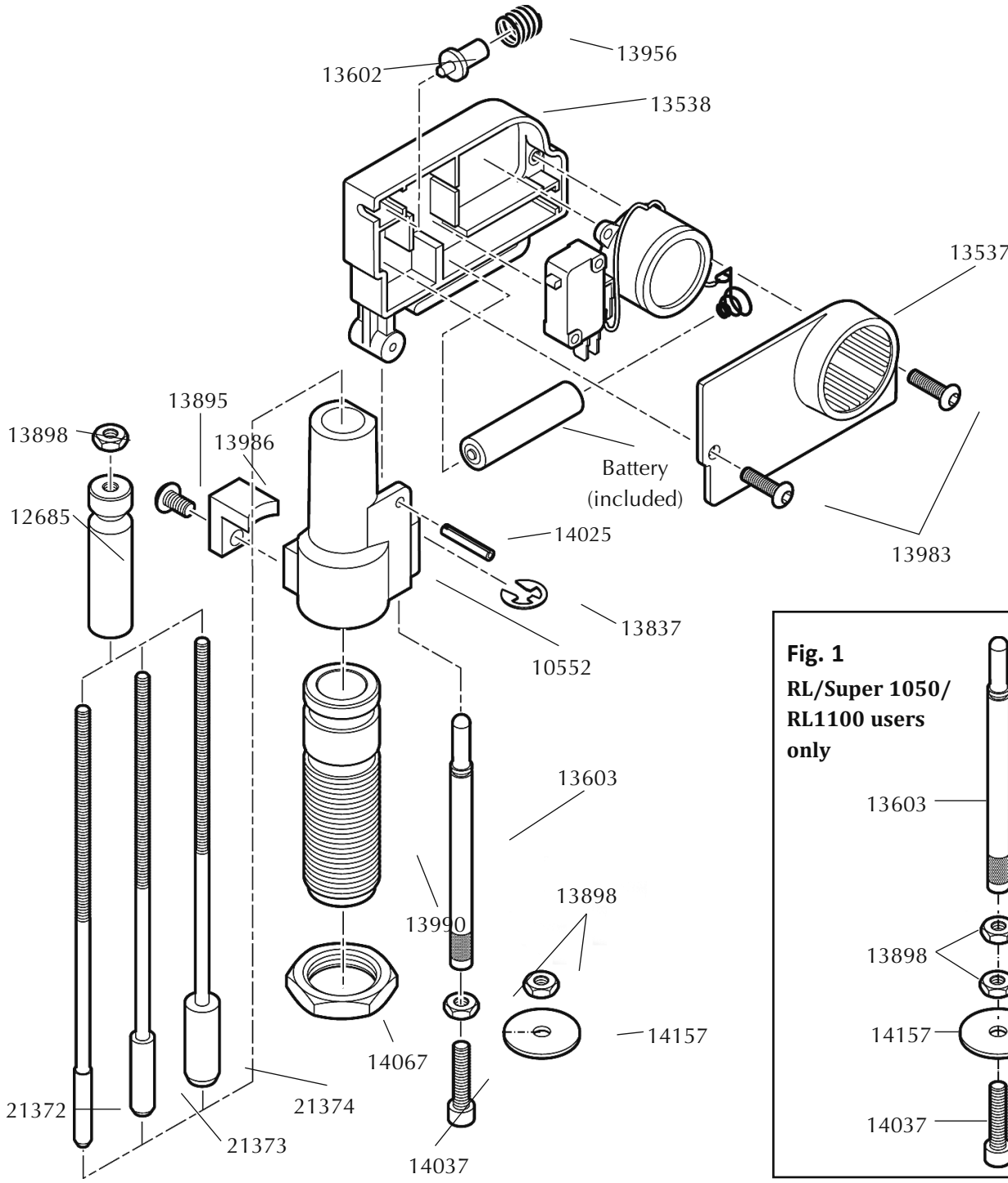
Using a case with no powder in it, cycle the handle down. The contact should strike the side of the grooved sleeve and activate the buzzer. **Remember that sound** because in future loading sessions, that sound means a no-charge or a double-charge.

To continue the test – put a case that you have "knowingly" double charged into station 3. Now cycle the handle down. Again the buzzer should sound. To stop the buzzing sound, simply raise the handle on the XL 650/750 or 1050/1100 and the buzzer will dis-engage the case and stop sounding.

Now that you are familiar with the operation of the Powdercheck Die, process 5 cases. If all goes well, you are ready to start loading. Make adjustments as needed, be sure that all lock nuts are properly tightened before you begin your loading session. Do not over-tighten the lock nuts.

If you have any questions call our **Technical Support Dept. (800) 223-4570**.

All electrical/electronic components in Dillon equipment are covered by a one year warranty.



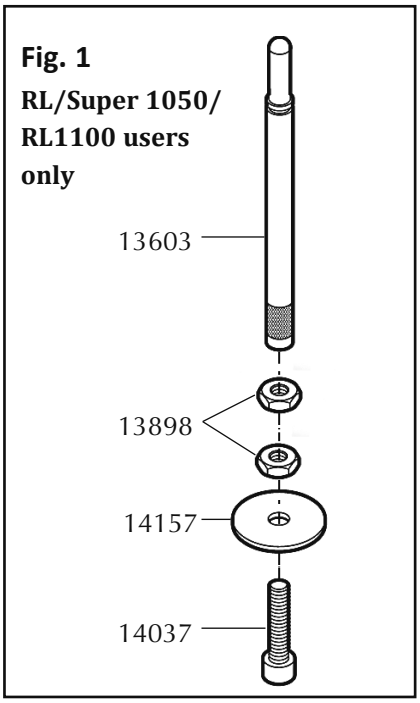


Fig. 1
RL/Super 1050/ RL1100 users only

Part #	Description
10552	Die Collar
12685	Check Rod Sleeve
13537	Buzzer Housing Cover
13538	Buzzer Housing
13602	Contact Pin
13603	Die Push Rod
13837	Die E Clip
13895	Die Clamp Screw
13898	Jam Nut 10-24
13956	Spring
13983	Cover Screw 8/32
13986	Die Clamp
13990	Die
14025	Collar Roll Pin
14037	Push Rod Screw 10-24x7/8
14067	Die Lock Ring
14157	Washer
21044	Complete Powdercheck Die Assembly
21382	Includes Item #13538, Buzzer and Microswitch

Extra Powdercheck Rods can be purchased complete with sleeve (12685) and jam nut (13898).

21372	Powdercheck Rod Assembly .22 - .29 Cal.
21373	Powdercheck Rod Assembly .30 - .41 Cal.
21374	Powdercheck Rod Assembly .44 - .45 Cal.