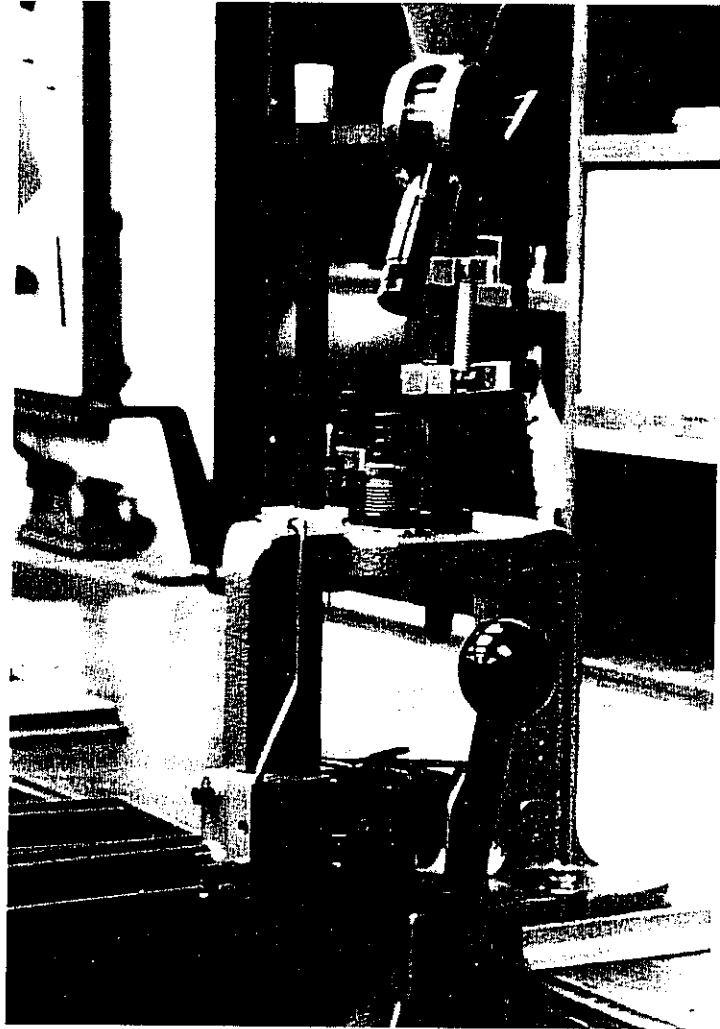


# ***RCBS***®

## **PRO 2000™ TUBE PRIMING CONVERSION KIT**



PRODUCT INSTRUCTIONS

### **TUBE PRIMING CONVERSION KIT**

Before installing the Tube Priming Conversion Kit, have all reloading dies installed and correctly adjusted.

### **UNPACKING**

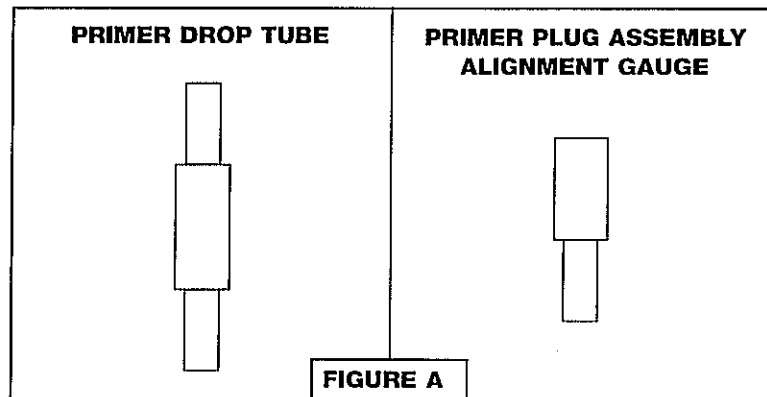
Primer Dispenser Assembly  
Primer Follower Rod Assembly  
Tube Priming Bag #1  
Tube Priming Bag #2  
Pro 2000 Cam Wire  
Pro 2000 Priming Tube Large  
Pro 2000 Priming Tube Small  
Priming Tube Assembly Large  
Priming Tube Assembly Small  
Tube Priming Kit Instructions

### **PRO 2000 TUBE PRIMING BAG #1**

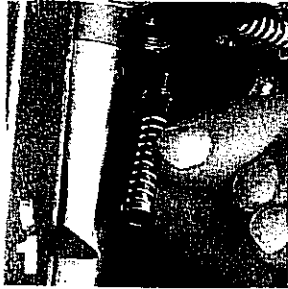
Primer Transfer Bar Assembly  
Roller Mount Assembly  
Cam Wire Block  
1/4-28x3/4" Socket Head Cap Screw (2)  
8-32x1/2" Socket Head Cap Screw (2)  
8-32x3/4" Socket Head Cap Screw(1)  
1/4" Flat Washer (2)

### **PRO 2000 TUBE PRIMING BAG #2**

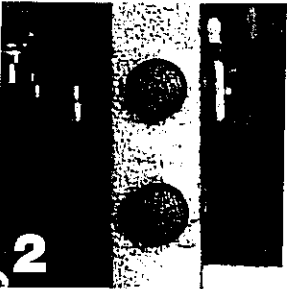
Primer Plug Assembly Large  
Primer Plug Assembly Small  
Transfer Bar Return Spring  
Primer Drop Tube  
Primer Plug Assembly Alignment Gauge  
8-32x1/2 Socket Head Cap Screw (1)



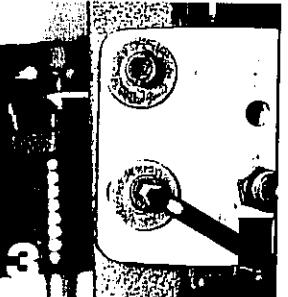
## TUBE PRIMING INSTALLATION



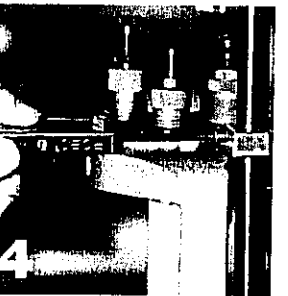
1. Remove APS primer plug assembly from shell plate holder. See photo 1.



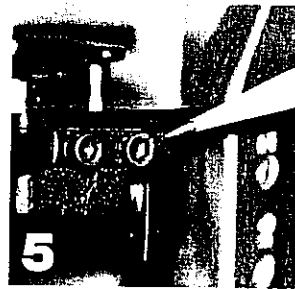
2. Remove the two buttons on the front of the press frame to reveal two holes for mounting the primer dispenser. See photo 2.



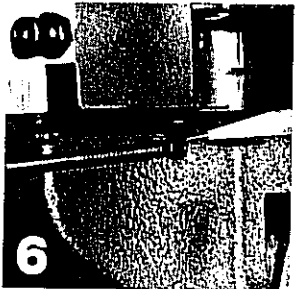
3. Install primer dispenser onto Pro 2000 frame with two 1/4" diameter washers and two 1/4-28x3/4" socket head cap screws. (Finger tighten; final adjustment will be described later). See photo 3.



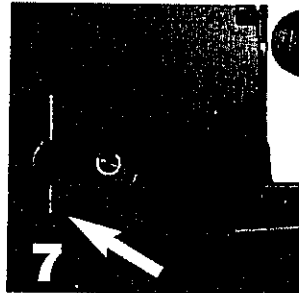
4. Install cam wire block on safety tube. (Finger tighten; final adjustment will be described later). See photo 4.



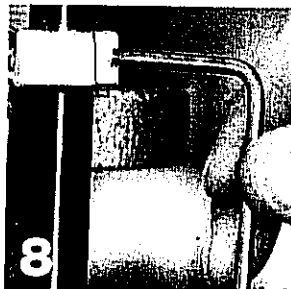
5. Attach the roller bracket onto shell plate holder and tighten securely with two 8-32x1/2" socket head cap screws. See photo 5.



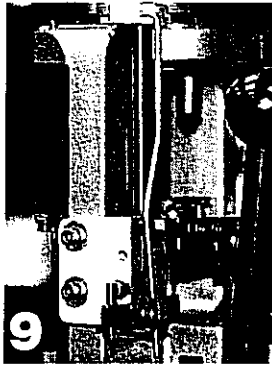
6. Install one 8-32x1/2" socket head cap screw into one end of the transfer bar return spring. Thread screw into Pro 2000 casting. See photo 6.



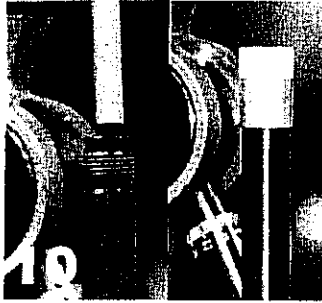
7. Slide transfer bar into primer dispenser and attach transfer bar return spring to the pin under the transfer bar. See photo 7.



8. Install cam wire into cam wire block. See photo 8.

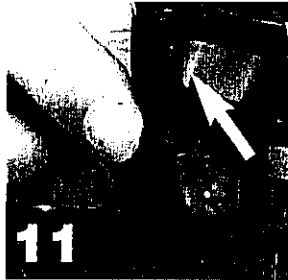


9. To adjust the cam wire block, center the cam wire in the rollers. The cam wire block will be at a slight angle to the right of the press frame. See photo 9. Once aligned, tighten screw on cam wire block. Do not over tighten. See photo 4.

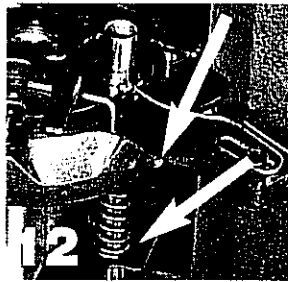


10. Install large or small primer tube into safety tube, depending on need, and thread safety tube cap onto safety tube until finger tight. See photo 10.

**FINAL ADJUSTMENTS**



1. Screw primer depth adjustment screw up until there is a gap of approximately 3/16" between bottom of the bolt and press frame. See photo 11.

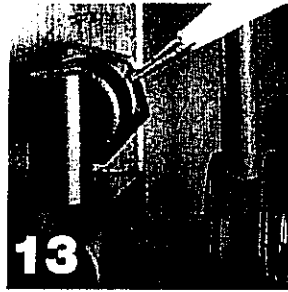


2. Remove spent primer tube, return spring plate and return spring. See photo 12.

3. Disconnect transfer bar return spring from the pin. See photo 7.

4. Loosen the transfer bar stop jam nut until it touches against the screw head.

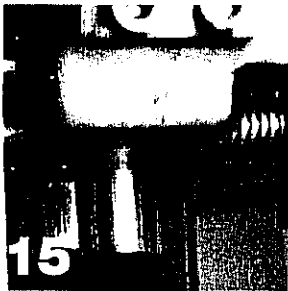
5. Thread the transfer bar stop in as far as it can go into the primer dispenser. See photo 13.



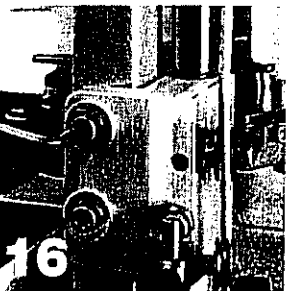
6. Raise the Shell Plate Holder approximately 1/2 stroke and place the primer plug assembly alignment gauge into the transfer bar. Tighten set screw on end of transfer bar. See photo 14.

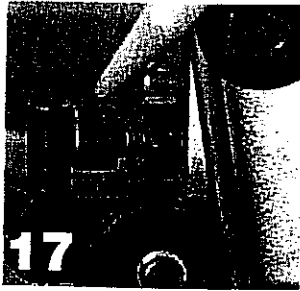


7. Slowly lower the shell plate holder over the gauge and by trial and error, move the transfer bar in and out of the primer dispenser until the gauge goes into the shell plate primer plug hole. See photo 15.



8. Holding the safety tube parallel to the press frame, firmly tighten the two 1/4-28x3/4" socket head cap screws. See photo 16.





9. While gauge is still in place, back out the transfer bar stop screw and screw until it lightly contacts the transfer bar stop. See photo 17.

15. Raise the Shell Plate Holder approximately 1/2 stroke and place primer anvil side up into the primer cup and lower Shell Plate Holder. Check to make sure primer cup is centered in the shell plate primer hole.

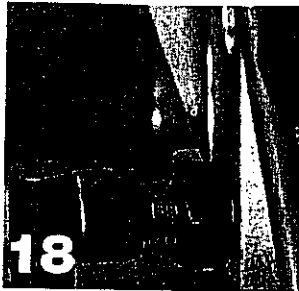
16. Back out the primer seating depth adjustment screw 6-8 turns.

17. Place a sized and decapped case into Station #2.

18. Push the handle forward to seat primer, remove case and inspect depth of seated primer. Adjust primer seating depth adjustment screw if necessary.

19. Once the proper seating depth is attained, tighten primer stop jam nut against the bottom of the Shell Plate Holder.

20. Tighten the transfer bar jam nut against the primer dispenser. See photo 18.



10. Finger tighten transfer bar jam nut against the primer dispenser. See photo 18.

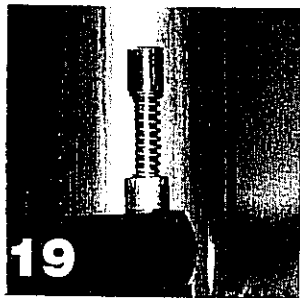
11. Reinstall transfer bar return spring onto pin.

12. Raise the Shell Plate Holder approximately 1/2 stroke, remove primer plug assembly alignment gauge.

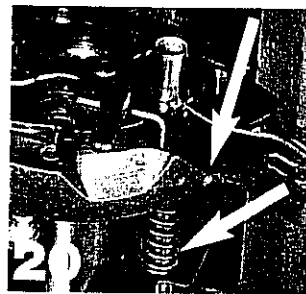
#### **READY TO LOAD**

##### **Primer Feed Tube Filling**

*WARNING: Care must be taken when loading the primer feed tube. Do not force primers. Because of the stacked condition of the primers, if one should ignite, all the primers in the tube will explode causing an extreme hazard. No more than five pounds of force should be applied when picking up primers with the primer feed tube (this can be checked using a bathroom scale). If difficult primer pick-up should occur, investigate the cause and clear the condition or return the primer feed tube to RCBS for correction. Always wear eye protection when handling primers.*



13. Install large or small primer plug assembly, depending on need, and tighten set-screw on end of transfer



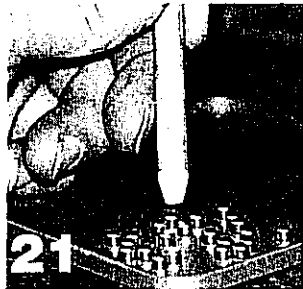
bar to hold assembly in place. See photo 19.

14. Reinstall spent primer tube, return spring plate and return spring. See photo 20.

We recommend the RCBS Primer Tray-2 to be used in conjunction with the primer feed tube. This plastic primer tray and cover have been designed to orient primers for fast, easy handling and primer pick-up.

1. Scatter the primers onto the grooved surface of the primer tray. Then, gently shake the tray horizontally until all the primers are positioned anvil side up.

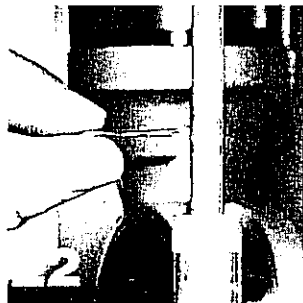
Place the cover on the tray end, while holding the tray and cover together, turn the tray upside down.



The primers will now be oriented anvil side down for easy pick-up with the appropriate size priming tube assembly. See photo 21.

2. Insert the primer feed tube cotter pin in the cross hole before picking up any primers. It will be removed after the tube is inserted into the priming system.

**WARNING:** It is the responsibility of the operator to insure that all primers are properly oriented. Attempting to seat a primer upside down in a case may cause the primer to detonate, causing serious personal injury or damage to the equipment. Primer residue is dangerous when exposed to heat, impact and/or static electricity. Therefore, it is important to keep the primer tubes clean. We recommend periodic cleaning with soap and warm water.



3. Use the plastic tipped end of the tube opposite the cotter pin for primer pick-up. After filling,

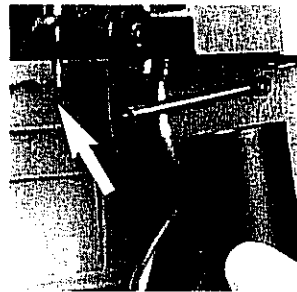
place the tube, cotter pin end down, onto the top of the safety tube cap. While holding the tube, remove the cotter pin, dropping the primers into the top of the safety tube cap. Be sure all primers are transferred into the Pro 2000 Priming Tube. See Photo 22.

4. Insert the primer level indicator rod into the hole in the safety tube cap of the Low Primer Detector Kit. *NOTE: Part # 88879, (available as an option), sounds a buzzer when you are nearly out of primers (approximately 3 remaining).*

5. To refill the primer feed tube, repeat the above outlined tube filling procedure.

### REMOVING PRIMERS FROM THE PRO 2000 DISPENSER

1. Raise the Shell Plate Holder approximately 1/2 stroke. Loosen setscrew at the end of the transfer bar and remove the primer plug assembly.



2. Place Primer Drop Tube into transfer bar. See Figure A.

3. Disconnect the transfer bar return spring from the pin. See Photo 23.

4. While holding a container under the Primer Dispenser, pull the handle all the way down to release all captured primers. See Photo 23.

5. Store primers in their original containers.

### PRIMER CHANGEOVER FROM LARGE TO SMALL PRIMERS & VICE-VERSA

1. Remove primer Plug Assembly and install correct Primer Plug Assembly for loading application.

2. Remove the safety tube cap.

3. Remove the empty tube inside the safety tube.

4. Install the correct tube size inside the safety tube.

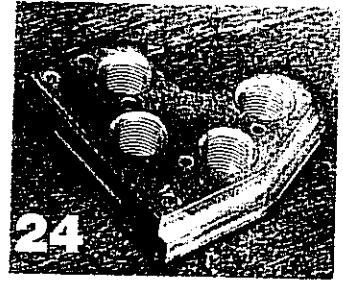
5. Install the safety tube cap onto the safety tube.

## OPTIONAL EQUIPMENT

### Pro 2000 Die Plate

88877

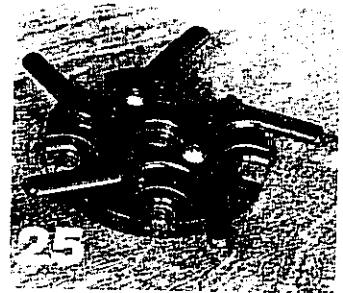
Allows dies to remain pre-set for quick changeover.  
*See photo 24.*



### Pro 2000 Star Wheel

88878

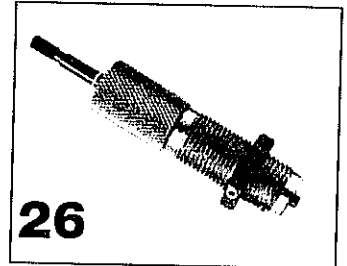
For quicker caliber changeover, the Star Wheel can remain permanently attached to the Shell Plate.  
*See photo 25.*



### Lock Out Die

87540

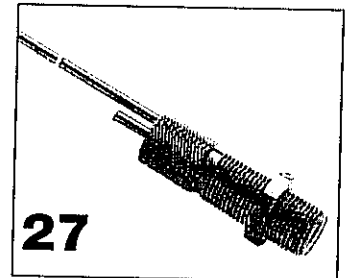
The lock-Out Die detects a "no powder" or a "double charge" condition in the progressive reloading process and prevents further use of the press until the problem is corrected. *See photo 26.*



### Powder Checker Die

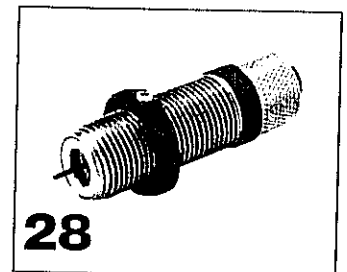
87590

A simple, effective way to visually check powder charges before seating a bullet when you use a progressive press. *See Photo 27.*



### Lube Die

Decaps and lubes cases in one step. Eliminates time and mess associated with lubing cases. Four sizes cover 45 popular calibers. *See Photo 28.* Refer to our RCBS Catalog for a complete list of caliber sizes.



### Dust Cover

86767

This soft vinyl cover helps to protect your new Pro 2000 Press. Also available for most other RCBS products. Look in our RCBS Catalog for a complete selection. *Photo not included.*

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