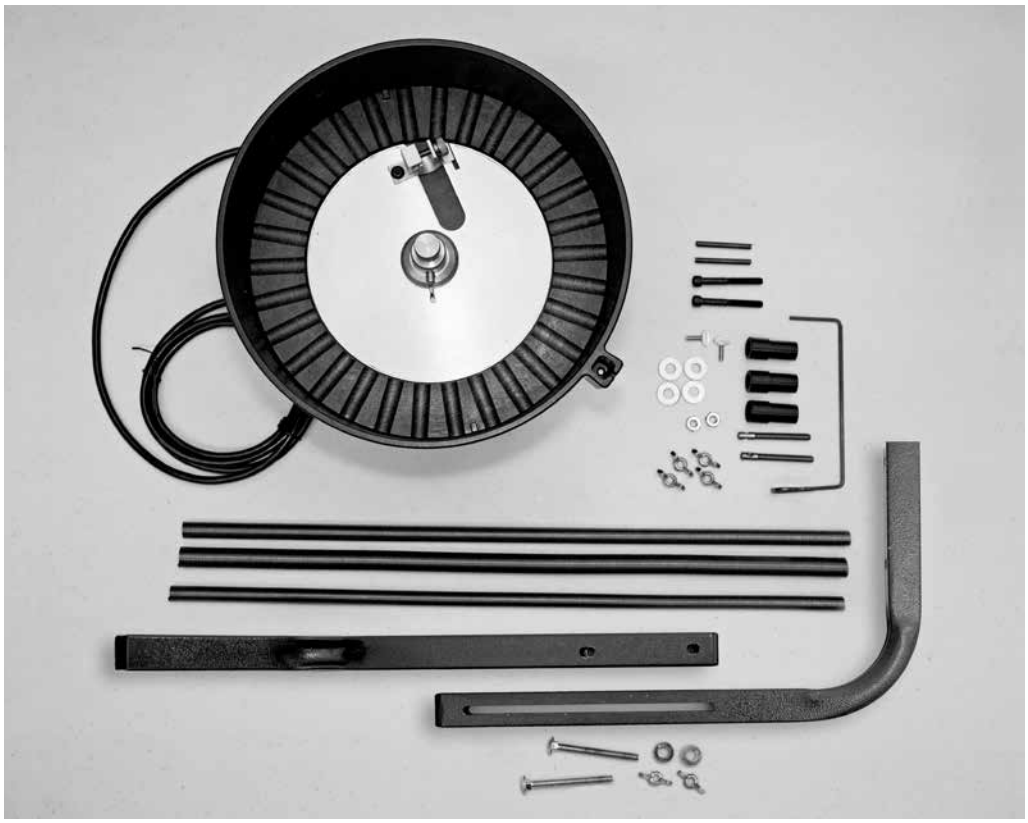
OWNER'S MANUAL

LOCK-N-LOAD®
BULLET FEEDER
(PISTOL)

Hornady®

Accurate. Deadly. Dependable.®

Table of Contents



Lock-N-Load® AP™ Pistol Bullet Feeder

OVERVIEW

Your new Lock-N-Load® AP™ Pistol Bullet Feeder has been packaged to ensure minimal vibration and damage during transportation.

Remove all the parts from the packing box (see page 2) and spread them over a large flat surface. **Refer to the parts list and exploded view on the next two pages** and check to make sure all necessary parts are identified.

This manual provides step-by-step instructions that make set-up and operation easy and understandable.

Tools needed for assembly and set-up:

- **7/16" End Wrench**
- **3/16" Hex Wrench**
- **1/4" Drill Bit**
- **Electric Drill**

Lock-N-Load® Auto Progressive (AP™) Pistol Bullet Feeder

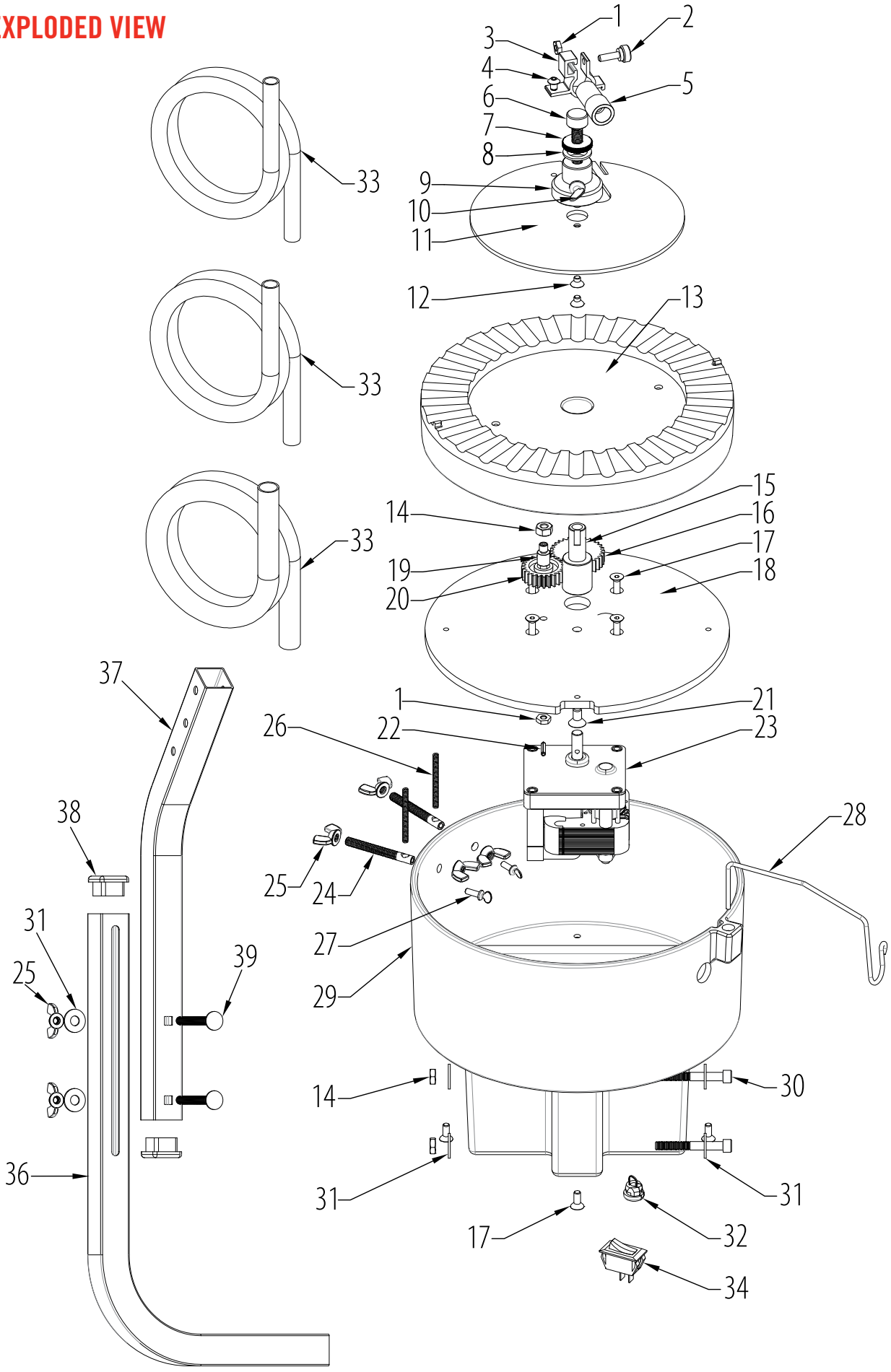
PARTS LIST

Item No.	Production Part No.	Qty.	Description
1	392011	3	Nut Hex 10-32 Zinc
2	399209	1	Steel Knurled Thumb Screw
3	399213	1	Tube Spring Clamp
4	399210	1	BHCS 10-32 X 1/4
5	399214	1	Tube Bullet Drop Funnel Large
5	399215	1	Tube Bullet Drop Funnel Medium
5	399216	1	Tube Bullet Drop Funnel Small
6	399205	1	Screw Adjustment Bullet Feed
7	399206	1	Screw Lock Nut Adjustment
8	398067	1	Rubber Washer Flat
9	399208	1	Center Plate Adjustment Nut
10	398400	1	Thumb Screw 1/4-20 X 1/2
11	399202	1	Hopper Turning Plate
12	398401	2	Screw FHSCS 10-32 X 1/4
13	399201	1	Bullet Feed Wheel - Pistol
14	399212	3	Nut Hex 1/4-20
15	399207	1	Center Pin Bullet Plate
16	399218	1	Spur Gear 1.500 P.D., 30 Tooth
17	398313	8	Screw FHSCS 10-32 X 3/4
18	399203	1	Bullet Feeder Base Plate
19	398402	1	Ideler Gear Shaft

Item No.	Production Part No.	Qty.	Description
20	399102	1	Spur Gear 1.200 P.D. 24 Tooth
21	399244	1	FHCS 1/4-20 X 1/2
22	398381	1	Pin Spirol 1/8 X 3/4
23	398399	1	Motor Bullet Feeder
24	399222	2	Screw Bullet Wiper
25	399242	6	Nut Wing 1/4-20
26	399223	2	Spring Wiper Bullet Feed
27	399224	2	Thumb Screw 8-32 X 1/2
28	399217	1	Tube Holder Bullet Feeder
29	399200	1	Bullet Feed Hopper
30	399211	2	SHCS 1/4-20 X 2
31	390128	6	Washer Flat 1/4"
32	398418	1	Bushing (HEYCO 1147) Black
33	399219	1	Tube Drop Small
33	399243	1	Tube Drop Medium
33	399221	1	Tube Drop Large
34	398332	1	Switch 2 Position
36	399358	1	Support Tube-Bottom
37	399359	1	Support Tube-Top
38	399360	2	1" Square Finishing Plug
39	399362	2	1/4-20x2.5 Carriage Bolt

Lock-N-Load® AP™ Pistol Bullet Feeder

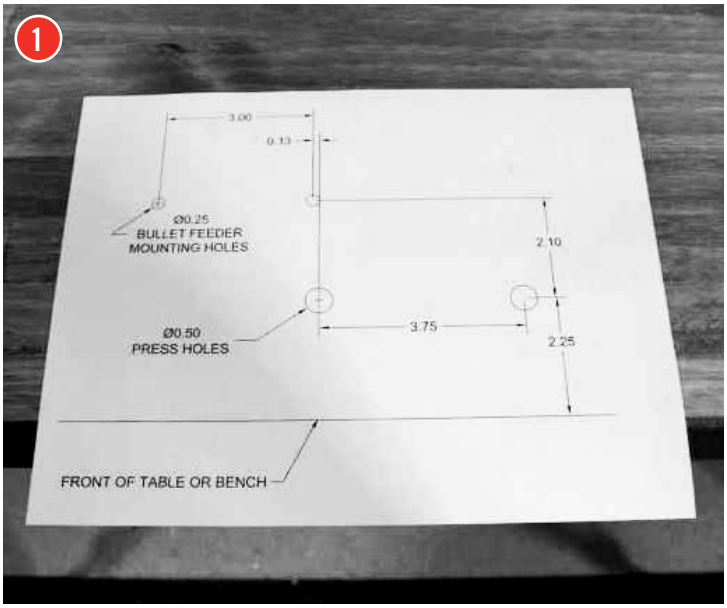
EXPLODED VIEW



Mounting the Bullet Feeder to the Bench

1 **Refer to Appendix B for the template.**

Place the template on the table in the location you would like to mount the press and Lock-N-Load® AP™ Pistol Bullet Feeder. Drill ¼" holes for the placement of the Square Tubing Mounting Bracket.

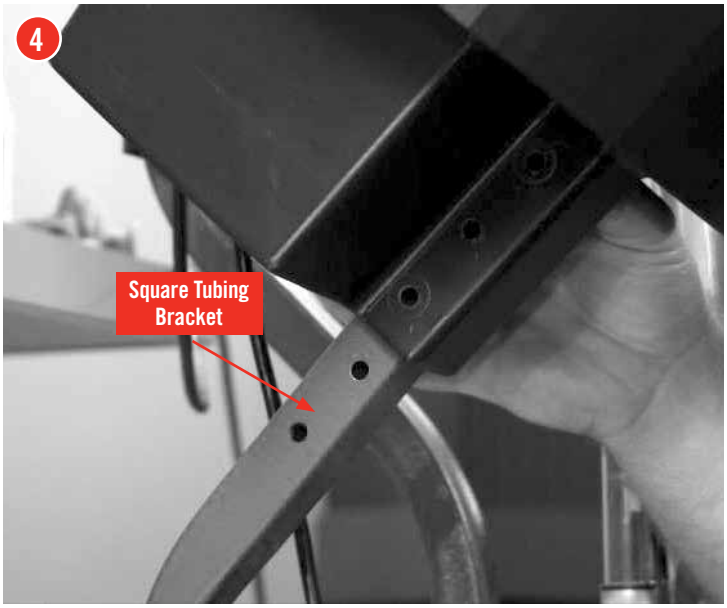


2 Use ¼" bolts with ¼" Flat Washers *(not provided, due to different thicknesses of tables)* on top of the Square Tubing Mounting Bracket and also one on the bottom of the bench.

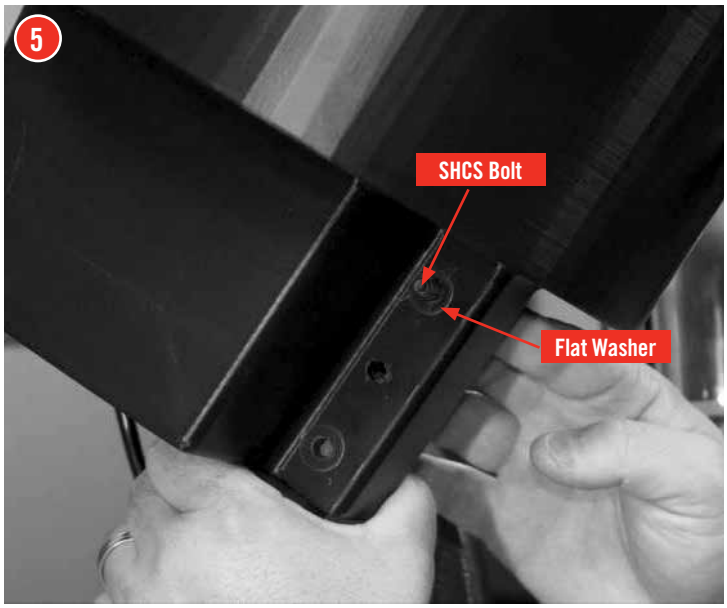
3 Once the Support Tube-Bottom (36) is securely attached to the bench top, line up the Support Tube-Top on the front of the tube, oriented as shown in the exploded view on page 27. Slide a ¼-20x2.5 Carriage Bolt (39) through one of the square holes in the top tube and through the slot in the bottom tube. Place a ¼" Flat Washer (31) over the bolt and thread on a ¼-20 Wing Nut (25). Repeat with another bolt, washer, and nut through the other square hole. The height of this tube may need to be adjusted at a later time in order to allow bullets to slide freely down the Drop Tube (33).

Mounting the Bullet Feed Hopper to the Square Tubing Mounting Bracket

4 Slide the Hopper (29) over the top of the Square Tubing Mounting Bracket (37), with the open face of the Hopper facing the front of the bench or table.

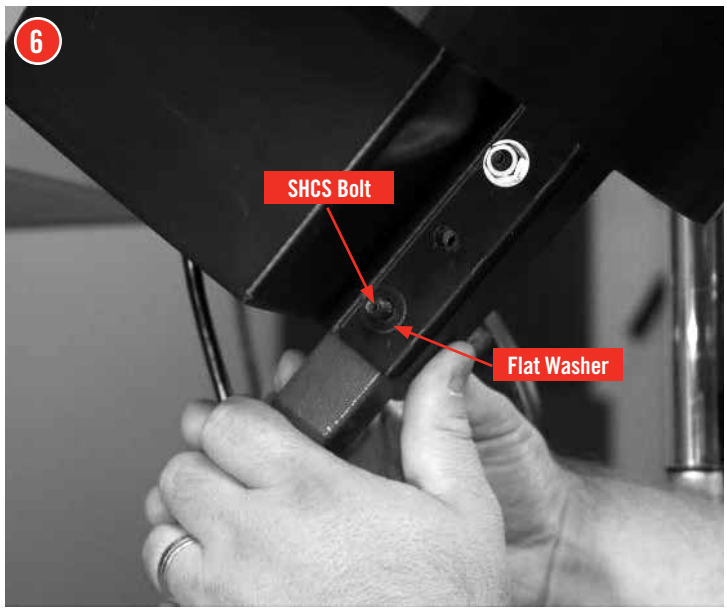


5 Place a ¼-20 X 2 SHCS Bolt (30) with one ¼" Flat Washer (31) through the top hole of the Bullet Feed Hopper and the Square Tubing Bracket.



6 Place a ¼-20 X 2 SHCS Bolt (30) with one ¼" Flat Washer (31) through the bottom hole of the Bullet Feed Hopper and the Square Tubing Mounting Bracket.

If you are having issues with bullets not being able to keep up feeding (approximately 100 bullets in 5 to 6 minutes), switch the bolt from the bottom hole to the middle hole.

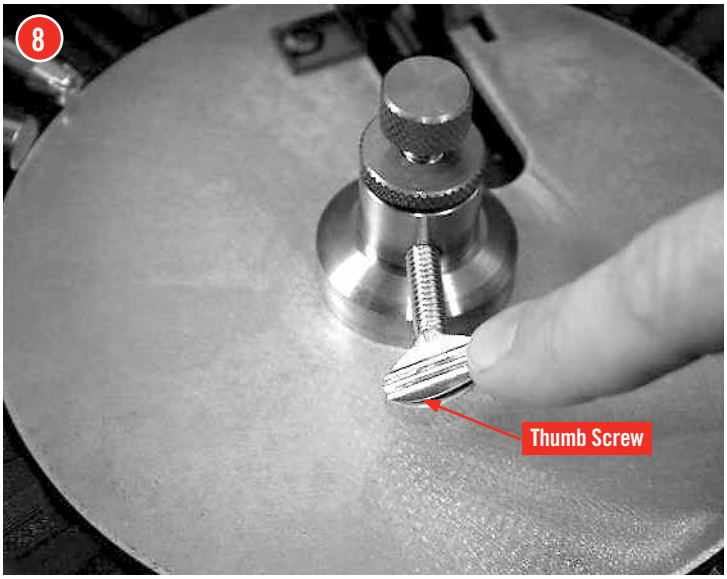


7 Place a ¼" Flat Washer (31) over the end of each of the two Bolts just previously place through the Bullet Feed Hopper and Square Tubing Mounting Bracket.

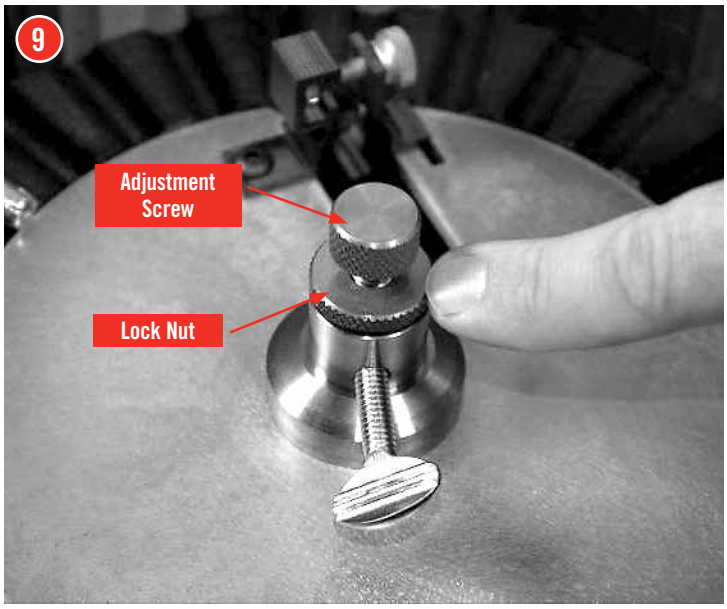
Place a ¼-20 Hex Nut (14) onto the two ¼-20 X 2 SHCS Bolts and tighten snug.

Bullet Feed Hopper Set Up

8 Loosen ¼-20 Thumb Screw (10).



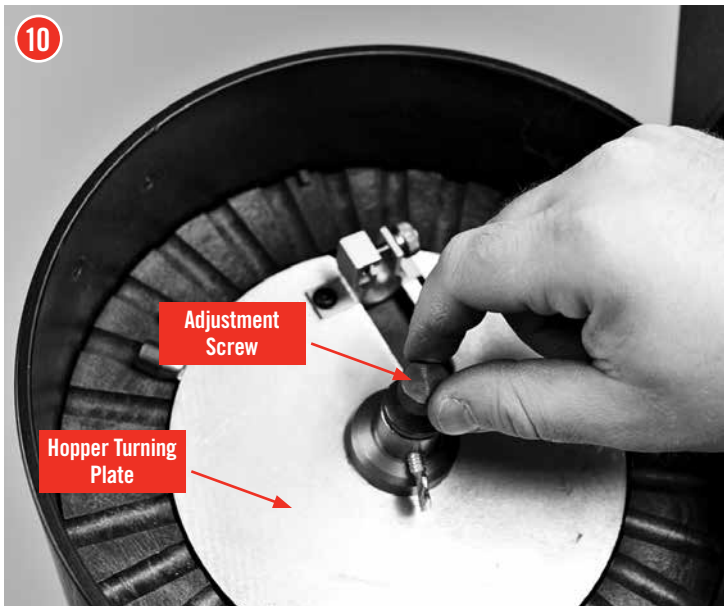
9 Loosen Lock Nut (7) on the Adjustment Screw (6).



Bullet Feed Hopper Set Up (con't)

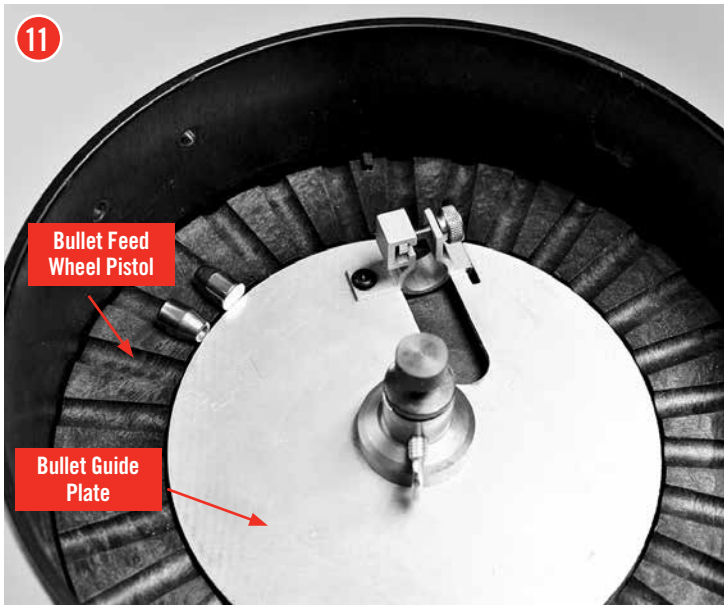
10 Raise the Hopper Turning Plate (11) by turning the Adjustment Screw (6) clockwise.

Raise the Bullet Guide Plate above the bottom of the slots on the Bullet Feed Wheel Pistol far enough to hold a bullet base first against the Bullet Feed Wheel Pistol.



11 Place a bullet that you plan on loading facing base first up against the Bullet Guide Plate and against the Bullet Feed Wheel Pistol. Next to this bullet, place another bullet so that the nose is facing the center of the Bullet Feed Wheel Pistol.

You will then need to adjust the Bullet Guide Plate either up or down to get a bullet to stay on the Bullet Feed Wheel Pistol base first, but fall off the Bullet Feed Wheel Pistol if the bullet is nose first towards center of the Bullet Feed Wheel Pistol.



Bullet Wiper (Bottom Wiper)

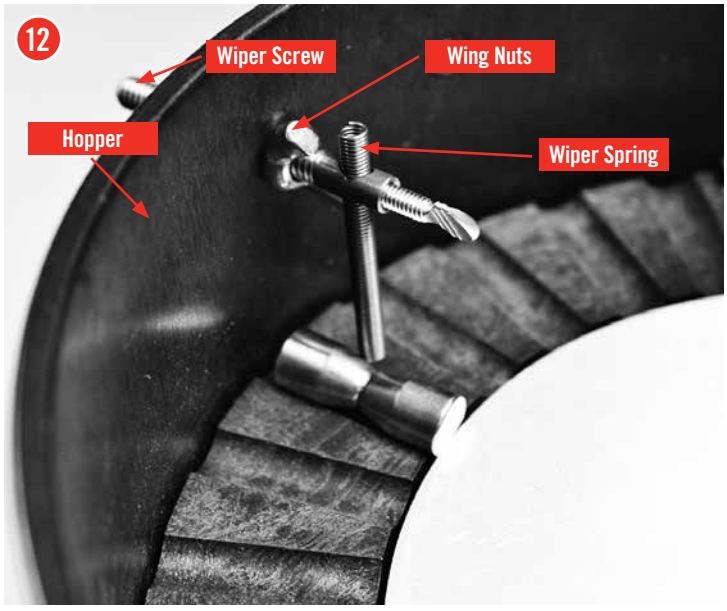
12 Install the wipers as with one Wing Nut (25) installed on the outside of the Bullet Feed Hopper on the Wiper Screw (24).

Loosen the wing nuts.

Place two bullets nose to nose in a slot close to the height of the first or bottom wiper screw and Wiper Spring (26).

Adjust the first wiper spring and screw to wipe off the outside bullet.

Tighten down the two wing nuts and the thumb screw.



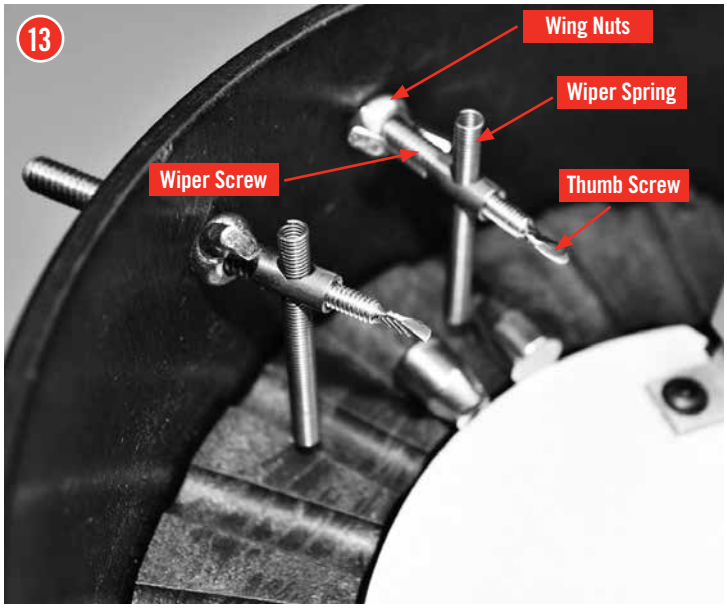
Bullet Wiper (Top Wiper)

13 Install the wipers as shown in with one Wing Nut installed on the outside of the Bullet Feed Hopper) on the Wiper Screw.

Place one bullet facing the center of the Bullet Feed Wheel Pistol base first. Next to it, place a bullet facing nose first to the center of Bullet Feed Wheel Pistol. The bullet that is facing nose first, push the nose down a little so the base is sticking up.

Adjust the second Wiper Spring and Wiper Screw to just miss the nose of the first bullet but kick the base of the second bullet.

Tighten down the two Wing Nuts and the Thumb Screw.



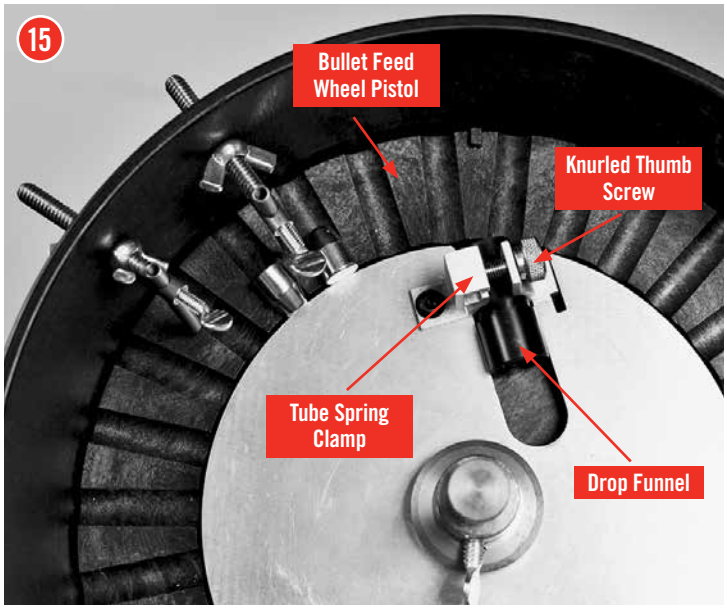
Drop Funnel

14 Select the correct size of Drop Funnel for your application.

9MM/38/.357 .....(375 I.D.) .....Item No. 399216
40 S&W/10 MM .....(406 I.D.) .....Item No. 399215
.44/.451/.452.....(530 I.D.) .....Item No. 399214

15 Insert the Drop Funnel (5) into Tube Spring Clamp (3). You will want the front edge (outside edge) of the Drop Funnel as close to the Bullet Feed Wheel Pistol without touching the Bullet Feed Wheel Pistol.

Tighten the Knurled Thumb Screw (2) on the side of the Tube Spring Clamp. Only snug this screw, **DO NOT** over tighten this screw.



Setup / Changeover of the Lock-N-Load® Pistol Bullet Feeder

The Hornady Lock-N-Load® Pistol Bullet Feeder is capable of feeding most pistol bullets. When changing bullet caliber, type, or brand, the following components on the Bullet Feeder may need to be changed or verified. Hopper Plate Height.

- Bottom Wiper Location
- Top Wiper Location
- Drop Tube Funnel
- Drop Tube
- Bullet Feeder Dies

1 Hopper Plate Height

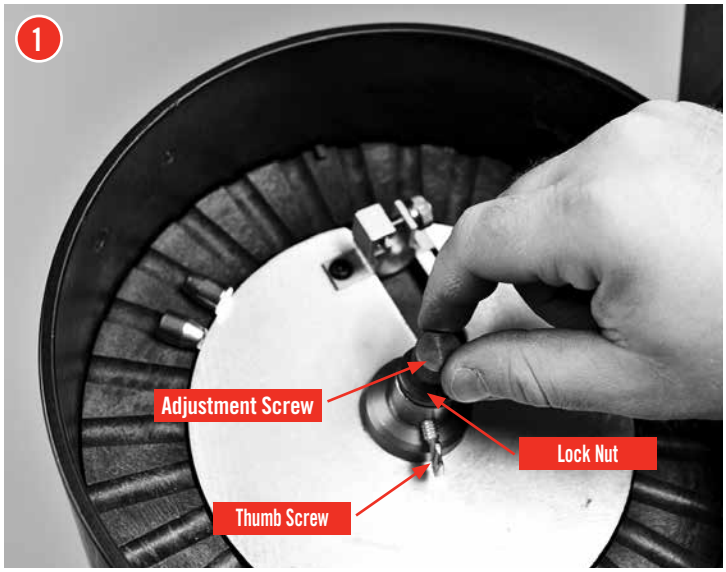
Loosen ¼-20 Thumb Screw and the Lock Nut on the Adjustment Screw.

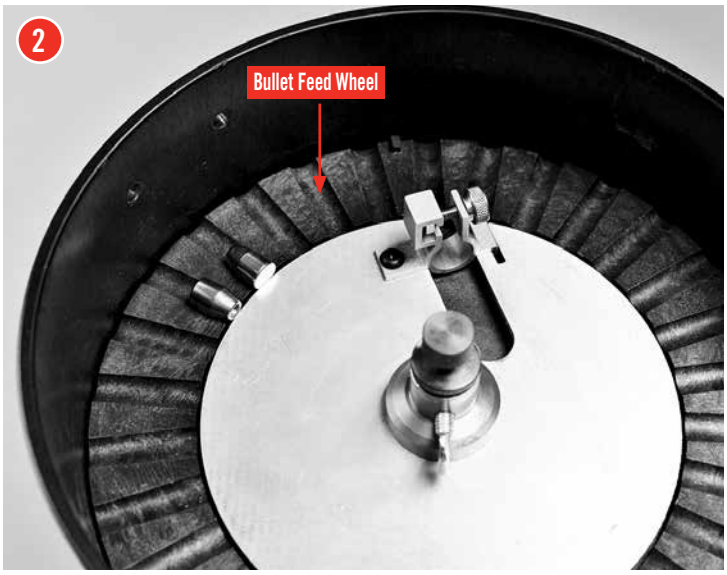
Raise the Bullet Guide Plate by turning the Adjustment Screw clockwise.

Raise the Bullet Guide Plate above the bottom of the slots on the Bullet Feed Wheel Pistol far enough to hold a bullet base first against the Bullet Feed Wheel Pistol.

2 Place two bullets onto the Bullet Feed Wheel, one with the nose toward the center, and the other with the base toward the center. Rotate the Adjustment Screw to adjust the Bullet Guide Plate either up or down to get a the nose down bullet to fall off the plate, yet keep the base down bullet on the Bullet Guide Plate.

Once the Bullet Guide Plate position is acceptable, tighten the Lock Nut and then the ¼-20 Thumb Screw.





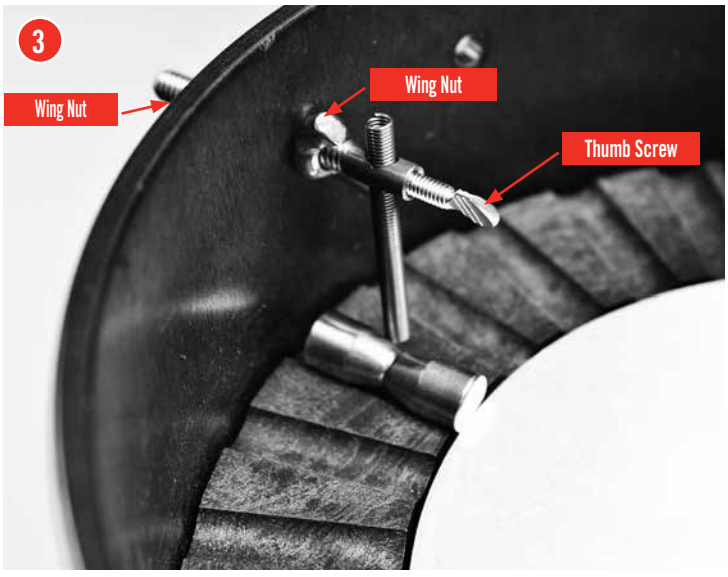
3 Adjusting the Bottom Wiper

The bottom wiper is used to remove the top bullet when two bullets are double-stacked on the Feed Wheel Plate.

To adjust the spring location, loosen the two Wing Nuts and slide the assembly in or out. The spring should be located so the top bullet is knocked off the bottom bullet as the Bullet Feed Wheel turns. Tighten down the two wing nuts and the thumb screw.

Loosen the thumb screw and move the spring so that it just clears the Bullet Feed Wheel. The spring should not contact the Feed Wheel Plate during normal operation.

With a little trial and error, the spring should be adjusted so that it knocks off the top bullet without disturbing the bottom bullet.



4 Adjusting the Top Wiper

The Top Wiper is intended to remove nose heavy bullets that do not fall off when pointed nose down on the Bullet Feed Plate .

Place two bullets onto the Bullet Feed Wheel near the Top Wiper, one with the nose toward the center, and the other with the base toward the center. Push the nose down a little on the bullet that is nose toward so the base is sticking up.

Adjust the second wiper spring and wiper screw to just miss the nose of the first bullet but kick the base of the second bullet.

Tighten down the two wing nuts and the thumb screw.

5 Switching Drop Tube Funnel

Select the correct size of Drop Funnel for your application.

9MM/38/.357 ..... (375 I.D.) .....Item No. 399216
40 S&W/10 MM..... (406 I.D.) .....Item No. 399215
.44/.451/.452 ..... (530 I.D.) .....Item No. 399214

Insert the Drop Funnel into Tube Spring Clamp. You will want the front edge (outside edge) of the Drop Funnel as close to the Bullet Feed Wheel Pistol without touching the Bullet Feed Wheel Pistol.

Tighten the Knurled Thumb Screw on the side of the Tube Spring Clamp. Only snug this screw, DO NOT over tighten this screw.

6 Switching the Drop Tube

Select the correct size of Drop Tube for your application.

9MM/38/.357 ..... (375 I.D.) .....Item No. 399219
40 S&W..... (406 I.D.) .....Item No. 399243
.44/.451/.452 ..... (530 I.D.) .....Item No. 399221

Slip the Drop Tube into the hole on the bottom right side of the Bullet Feed Hopper. Insert the end of the Drop Tube into the back end of the Drop Funnel. Insert the straight end of the Drop Tube Holder into the hole on the bottom right side of the hopper. Next place the Drop Tube into the hook of Drop Tube Holder.

7 Testing Hopper Setup

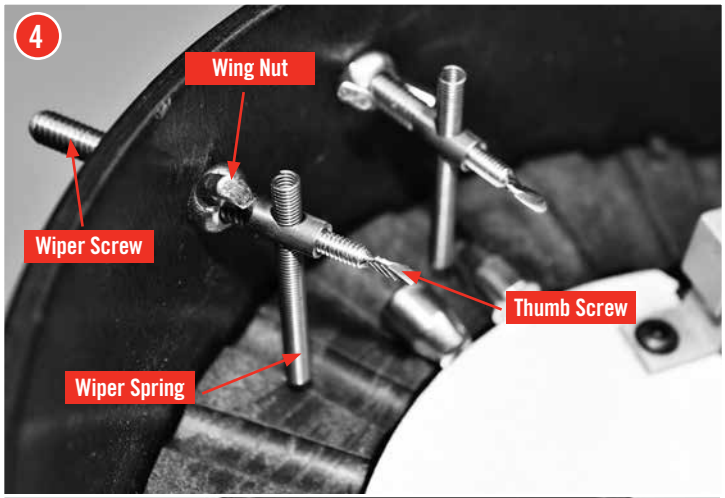
At this time, place about 100 bullets into the Bullet Feed Hopper and turn on the Switch on the bottom right corner of the Bullet Feed Hopper.

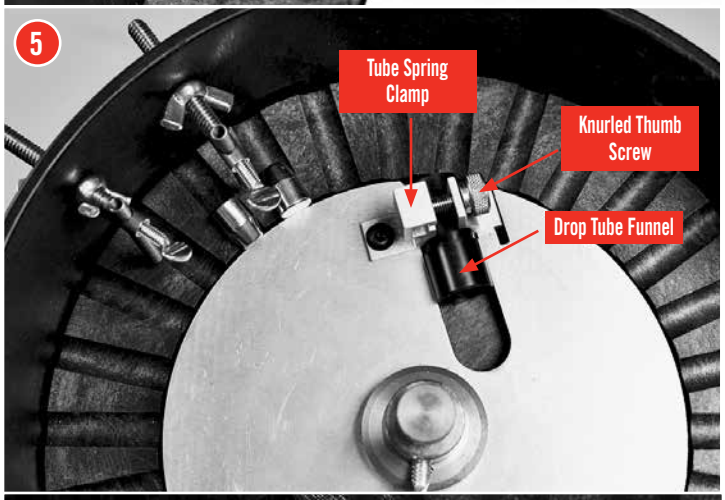
You will want to hold the end of the Drop Tube in your hand at this time to catch the bullets that will fall out of the tube.

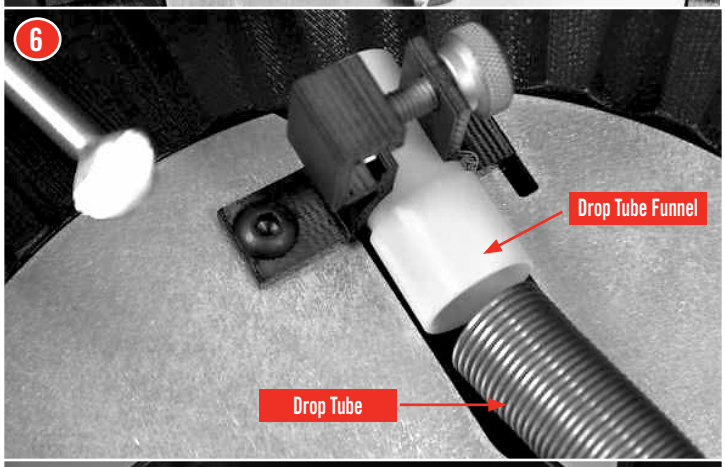
At this time, make sure you have the Bullet Wipers set correctly. If they are not, shut off the Switch and readjust the Bullet Wipers. You may need to do this a couple of times, until you have them set correctly and the bullets are falling base first every time.

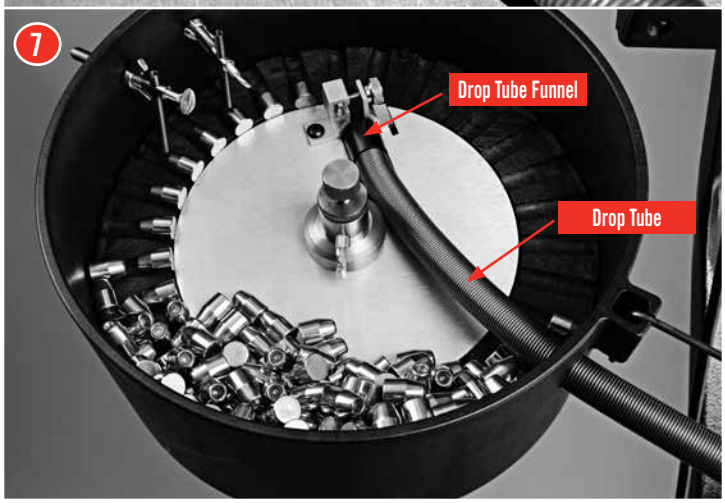
If the hopper plate is jumping or not rotating smoothly, your Drop Tube Funnel is too close to the Bullet Feed Wheel Pistol. This needs backed off until the Bullet Feed Wheel Pistol rotates smoothly.

If the bullets are feeding correctly, tighten down the Bullet Guide Plate Thumb Screw, and Snug Lock Nut.









Bullet Feed Die Set Up

Disassemble the die and lay the parts out on a flat surface.

Degrease every part of the die.

Reassemble the die as you took it apart.

Collet “A” goes in first with the open slots facing the bottom of the die.

Collet “B” goes in next with the open slots facing the bottom of the die.

Thread the Lock Ring back onto the Adjustment Screw until the Lock Ring is near the top end of the Adjustment Screw.

Place the O-Ring over the threads of the Adjustment Screw until it is close to the Lock Ring.

Screw the Adjustment Screw into the die. Screw it down until the end of the Adjustment Screw is just touching “Collet B”.

With the Adjustment Screw touching the top Collet, back the Adjustment Screw off ½ turn and lock down the Lock Ring against the top of the Die Body.

At this time you should be able to shake the die and hear the two Collets move up and down just a little bit. If you hear this, the die is set up correctly.

Die Adjustment Lock-N-Load® AP™

Screw on the Lock Ring to the outside threads of the Die Body.

Screw on the Lock-N-Load® Bushing to the outside threads of the Die Body.

Place the die into the top of the press and inserting it into the Lock-N-Load® Bushing in the Press Body.

Die Adjustment for a NON Lock-N-Load® AP™

Place a Flared Case for your set up in the previous station. Case mouths should be flared to the approximate dimensions listed below.

380/9MM	.385"
38/357	.387"
40S&W/10MM	.430"
44 SPL/44 MAG	.460"
.451/.452	.481"

Raise the ram to the top of the stroke.

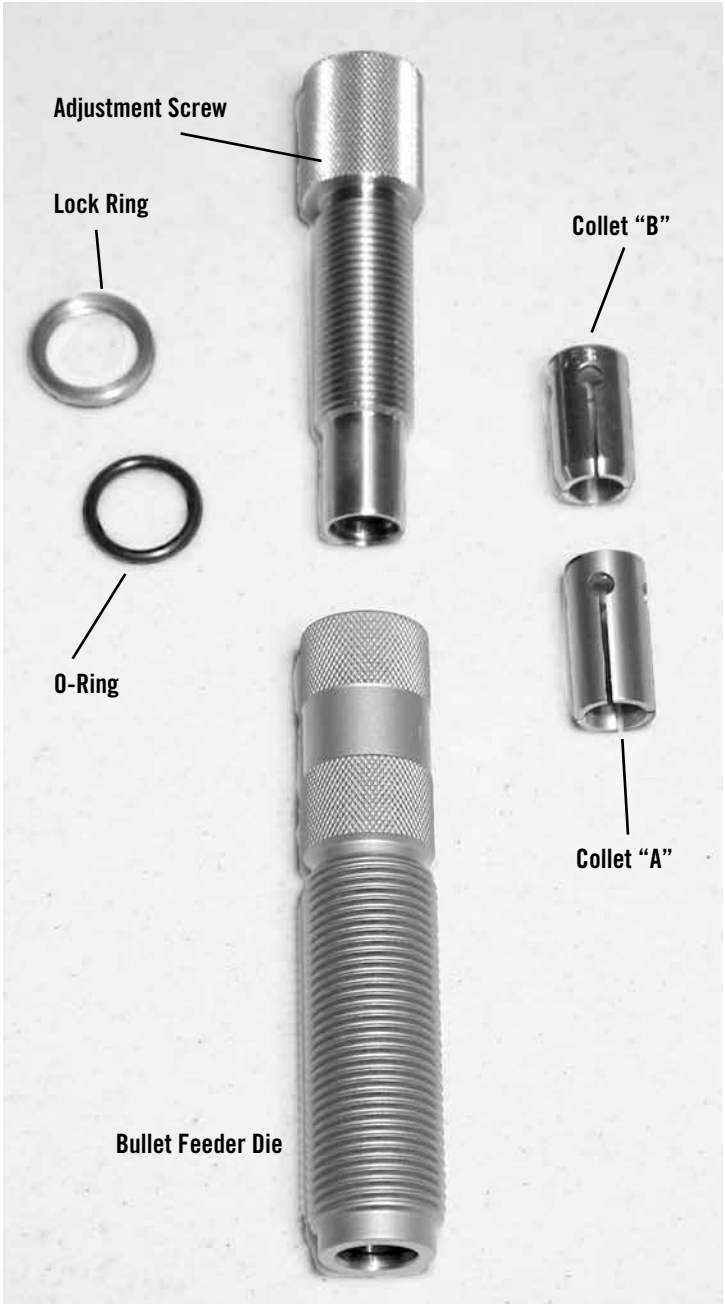
Screw the Die Body down until it touches the top of the case.

Lower the ram to the bottom of the stroke.

Screw the Die Body down ½ turn and lock down the Lock Ring.

At this time the die should be set.

Place 5 or 6 bullets base first into the top of the die.



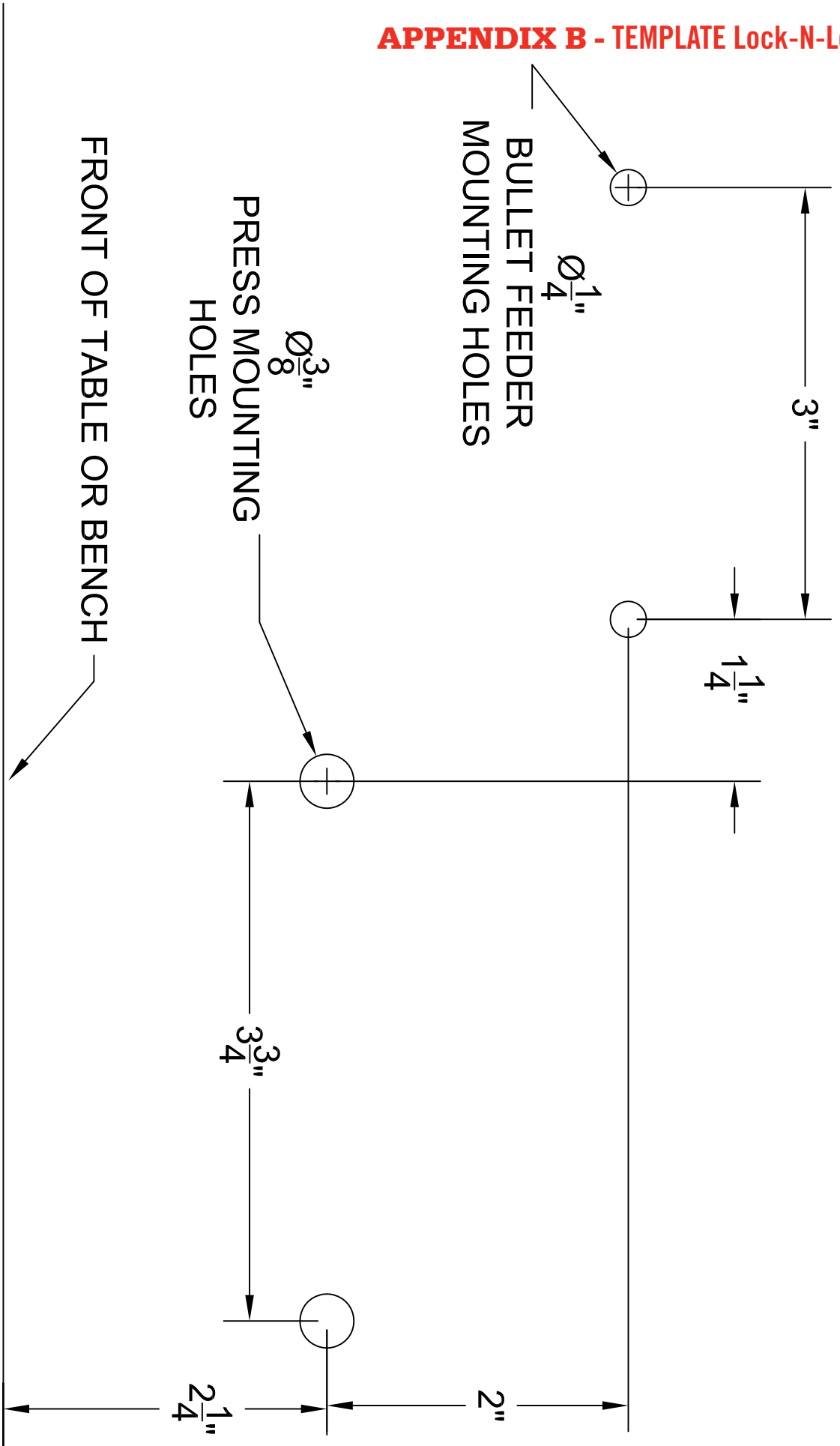
Die Set Up

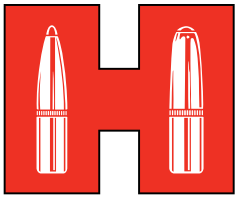
Place the case into the Shell Plate in the station before the Bullet Feeder Die so when the press rotates, the Flared Case will be inserting into the Bullet Feeder Die. Continue to raise the Ram to the top of the stroke. You will not be able to see or hear anything at this time.

Lower the Ram slowly.

You should be able to see a bullet that dropped on top of the case mouth. If the bullet dropped onto the case mouth and you can see it, you should have been able to hear a little noise coming from the collets. This is a correct sound, it will do this every time that the collets work correctly.

If the collets didn’t drop a bullet, lower the Die Body approximately 1/16" turn and repeat the previous 3 steps. Repeat these steps until you get a bullet to fall onto the case every time.


BULLET FEEDER MOUNTING HOLES
Ø 1/4"
PRESS MOUNTING HOLES
Ø 3/8"
FRONT OF TABLE OR BENCH
3"
1 1/4"
3 3/4"
2 1/4"
2"



Hornady®

Accurate. Deadly. Dependable.

P.O. Box 1848, Grand Island, Nebraska 68802-1848
308-382-1390 • 800-338-3220 • Fax: 308-382-5761
www.hornady.com • webmaster@hornady.com