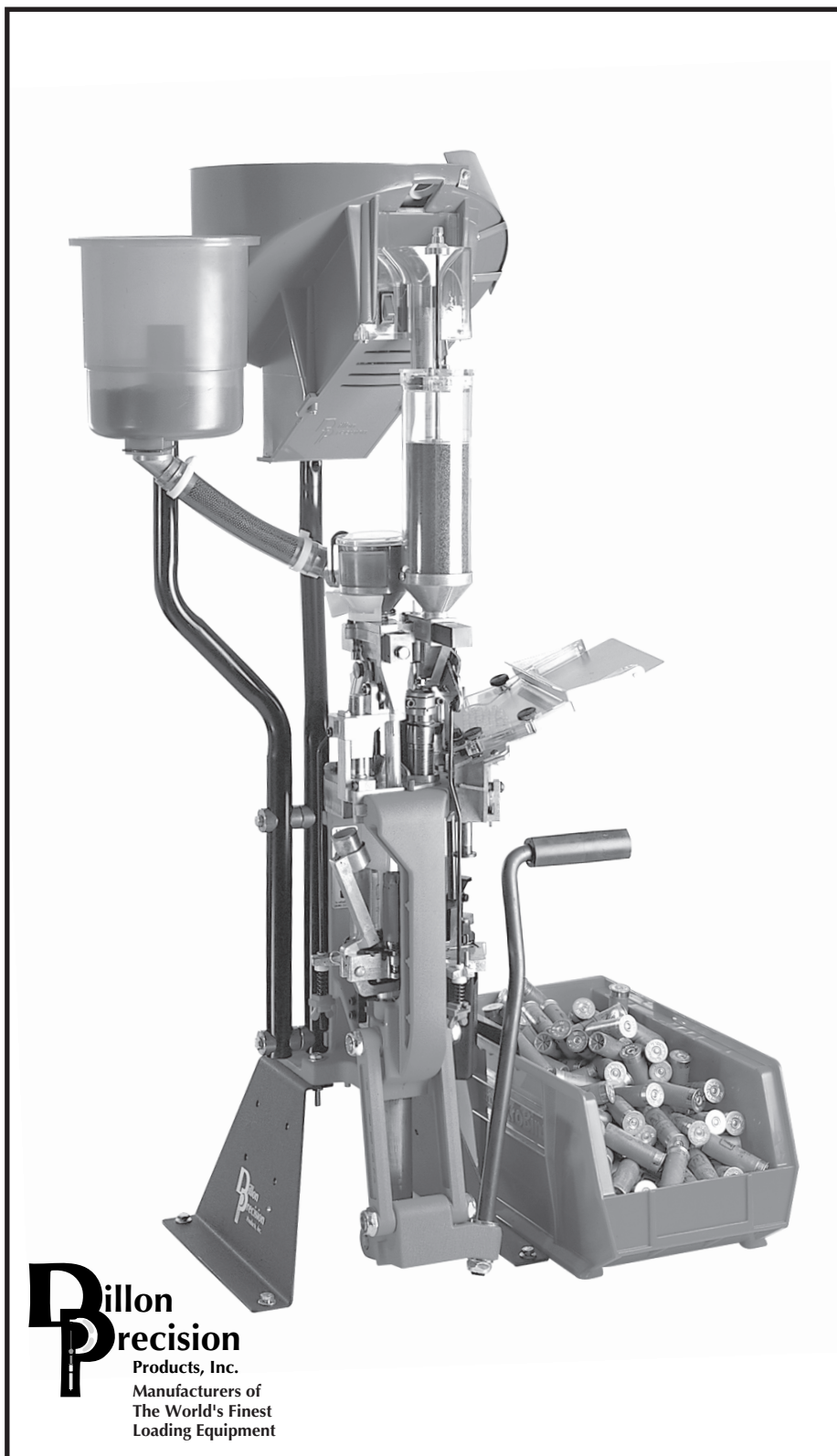


Dillon SL 900

Instruction Manual

May 2007



SL 900 Parts List

Part # Description

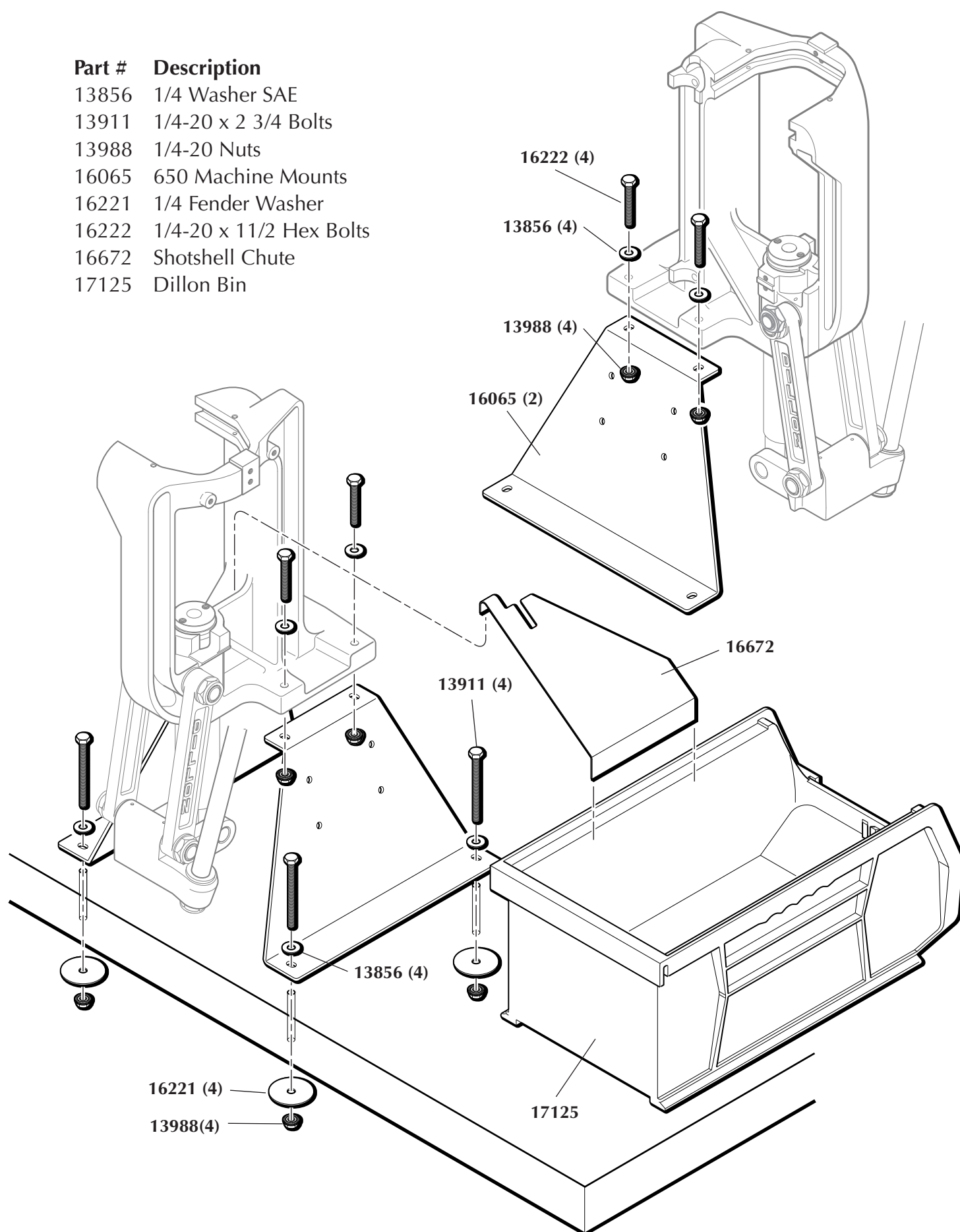
10641 Body Collar Adjustment Screw
 10716 Primer Spring Cap
 12000 Final Crimp Die
 12577 1/2-20 Jam Nut
 13311 Spring Pin
 13418 Shellplate Bolt
 13485 Mainshaft
 13613 Clamp
 13667 Index Pawl
 13677 Ring Indexer
 13700 Link Arm Shoulder Pin
 13701 3/32x3/8 Dowel Pin
 13738 10 Stainless Washers
 13742 1/2 E-Clip
 13773 8-32 Nut
 13789 1/4-28 Set Screw
 13791 Indexer Return Spring
 13793 Collar Roller
 13799 Blue Wing Nut
 13801 Tinnerman Nut
 13830 Mainshaft Pivot Pin
 13837 1/4 E-Clip
 13840 Hitch Pin Clip
 13841 Nylock Nuts
 13848 Bellcrank Bushing
 13856 1/4 Washer SAE
 13858 Rod Compression Spring
 13871 Bellcrank Cube
 13891 3/8 Index Ball
 13895 10-24x3/8 BHCS
 13896 1/4-20 x 3/8 BHCS
 13901 3/8x24 Cam Pin Jam Nut
 13911 1/4-20 x 2 3/4 Bolts
 13923 1/4-28 Brass Tip Set Screw
 13937 Slide Return Spring
 13938 Pawl Spring
 13943 1/4-28 Adjustment Bolt
 13958 1/4 Washer
 13966 1/4-28 x 3/4 SHCS
 13988 1/4-20 Nuts
 13989 10-24 x 5/8 SHCS
 13996 10-32 Set Screw
 13997 Index Ball Spring
 14008 Toolhead Pins
 14013 8-32x3/8 SHCS
 14023 8-32 x 3/4 BHCS
 14026 8-32 x 1/2 BHCS
 14037 10-24 x 3/4 SHCS
 14041 1/4 Wave Washer
 14574 Case Insert Slide Spring Cap
 14689 8-32 x 1/4 BHCS
 14808 Collar Roller Bushing
 14922 Link Arms
 16065 650 Machine Mounts
 16209 Spent Primer Cup Bracket
 16221 1/4 Fender Washer
 16222 1/4-20 x 11/2 Hex Bolts
 16340 10-32 Nylock Nut
 16667 Toolhead

16668 Toolhead Die Lockplate
 16670 SL Crank
 16671 Indexing Block
 16672 Shotshell Chute
 16675 Shellplate, 12 ga.
 16676 Ejector Wire
 16677 Wad Swing Arm
 16678 Wad Guide Sleeve
 16679 Sleeve Compression Spring
 16680 1/16 x 1/2 Roll Pin
 16681 Wad Guide
 16682 Swing Arm Torsion Spring
 16683 Case Insert Slide
 16684 Slide Block
 16691 Primer Transfer Arm
 16692 Arm Pivot Pin
 16693 Transfer Arm Spring
 16694 Station Two Locator
 16695 Locator Pivot Screw
 16696 Locator Torsion Spring
 16697 Case Insert Ramp
 16698 SL Platform
 16699 Spent Primer Cup
 16700 Primer Seater Pin
 16701 Bushing
 16702 Primer Seater Spring
 16707 Phish Compression Spring
 16708 Casefeed Phish
 16709 Camming Pin
 16711 Primer Feedplate
 16714 Slide/Bellcrank Spring
 16717 Primer Feed Cam
 16721 Tray Mounting Bracket
 16723 Primer Feed Body
 16724 Shot Dispenser
 16725 Shot Dispenser Body
 16726 Shot Drop Tube, 12 ga.
 16727 Shot Dispenser Bellcrank
 16731 Spring (Bellcrank Assembly)
 16732 Pivot Pin
 16733 Shot Bar Return Rod
 16735 Shot Body Collar
 16737 Collar Guide/Clamp
 16738 Shot Bar
 16739 Shot Bar Insert
 16740 3/8-16 Half Dog Set Screw
 16741 Depriming Pin
 16742 SL Sizer Collet Sleeve
 16743 Collet Sizer Die, 12 Ga.
 16744 SL Powder Die
 16746 Expander Powder Funnel
 10640 Starter Crimp Die
 16748 Dillon Starter Crimp Insert-1
 16753 Locator Buttons
 16904 1 1/2-10/32 SHCS
 17123 SL 900 Casefeed Post
 17124 Shot Post
 17125 Dillon Bin
 17126 Locator Button Spring
 17130 Casefeed Sleeve, 12 Ga.

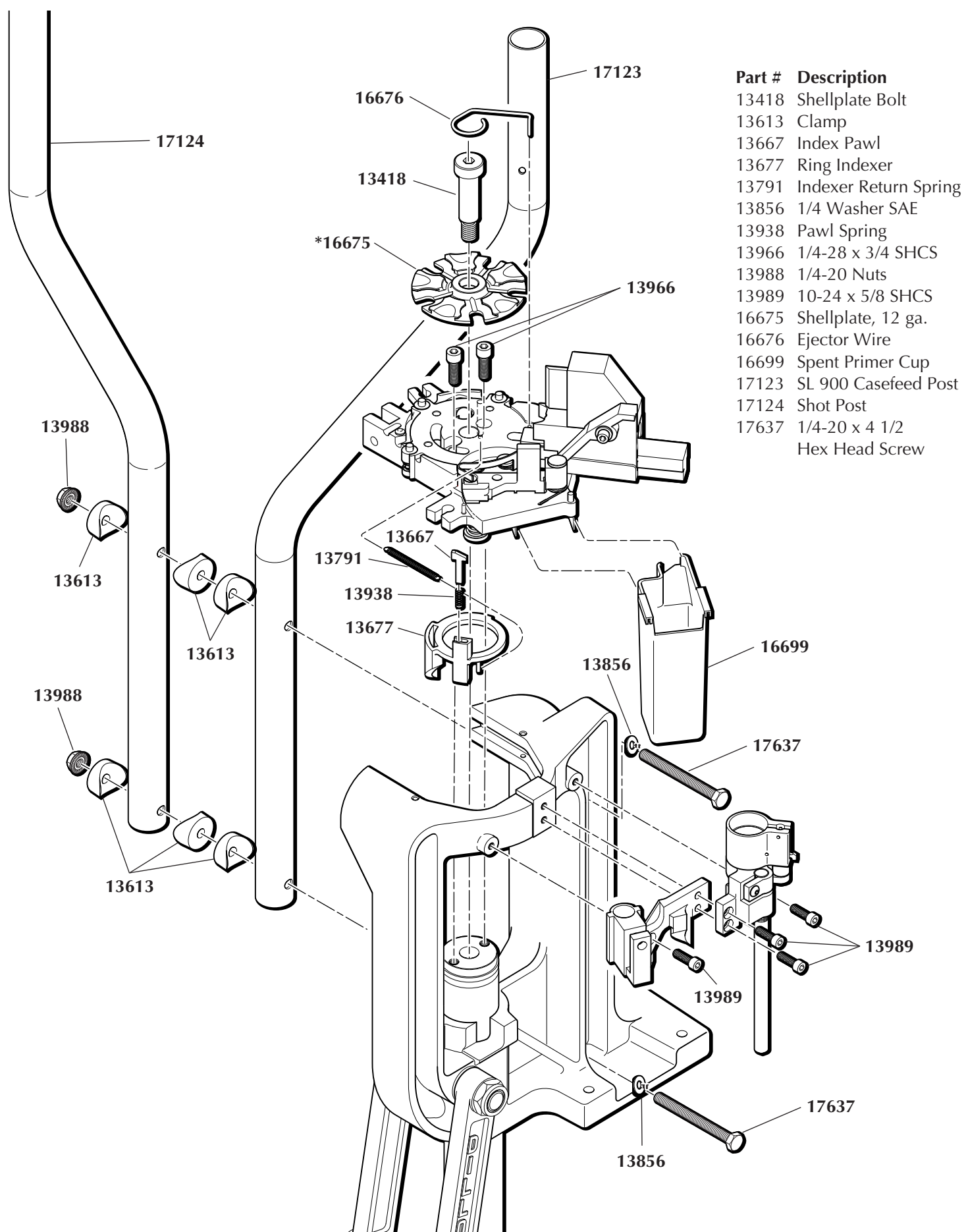
17131 Casefeed Body
 17132 Primer Drop Tube
 17134 Primer Bellcrank
 17138 Clear Dispenser Lid
 17139 Shot Dispenser Fitting
 17140 Pin (Bellcrank Assembly)
 17141 1/4 Hardened Washer
 17142 Dispenser Top
 17143 Dispenser Top Clear Lens
 17146 Rubber Insert
 17147 Powder Die E-Clip
 17148 1 1/4 Die Lock Ring
 17149 1.0 Die Lock Ring
 17153 Manual
 17182 SL Frame Machined
 17202 Shot Fitting E-Clip
 17350 Powder Bar Return Rod
 17351 Die Lock Bolt
 17352 Spring Button
 17353 Phish Spring Socket
 17354 Gate 3
 17472 #8 Washer .032 Thick
 17474 10-32 x 5/8 Tray Cover Screw
 17476 Shot Drain
 17477 Collet Sizer Spring
 17479 Clear Industrial Vinyl Tubing
 17509 Box
 17573 Shot Drain Ext. Spring
 17601 Washer .100 Thick
 17603 Black Knob
 17604 Clevis Pin
 17637 1/4-20 x 4 1/2 Hex Head Screw
 17639 .175 dia. x 1/4-20 Post
 17812 Primer Seater Assembly
 17815 Clear Primer Tray Cover
 17816 SL Primer Slide Upper
 17837 Tyton Clamp
 17838 P/M Lock Link
 17839 P/M Slotted Bellcrank
 17843 SL 900 Foam Insert Set
 17899 Stem Screw
 17909 Eight Star Crimp
 18086 Rod Bushing
 17817 SL900 Powder Measure Assy
 19201 Primer Feed System Assembly
 20536 SL Casefeed Tube - white label
 22134 Shot Dispenser Assy - 12 ga.
 22140 1/2-1 oz. Shot Bar Assembly
 22183 Roller Handle Assembly
 22292 Magnetic Pick-Up Wand
 97037 12 Ga. Casefeeder – 110v
 97120 Red Flag
 N/A Lock Link
 N/A Lock Link Torsion Spring
 N/A Pivot Pin
 N/A Return Spring Pin
 N/A Shot Bellcrank Rivet
 N/A SL Bellcrank Stud
 N/A Spare Parts Bag

SL 900 Mounting Assembly

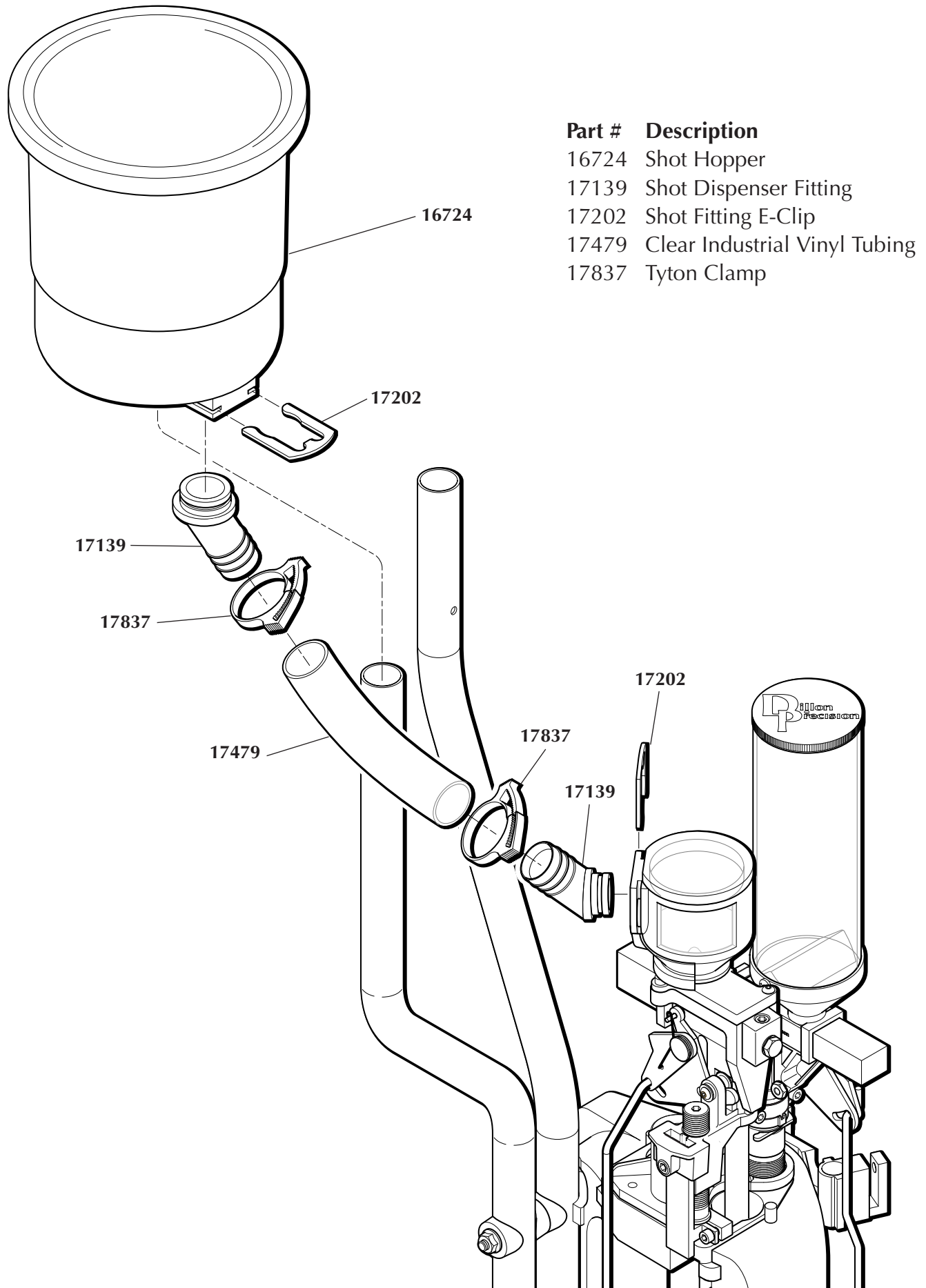
Part #	Description
13856	1/4 Washer SAE
13911	1/4-20 x 2 3/4 Bolts
13988	1/4-20 Nuts
16065	650 Machine Mounts
16221	1/4 Fender Washer
16222	1/4-20 x 1 1/2 Hex Bolts
16672	Shotshell Chute
17125	Dillon Bin



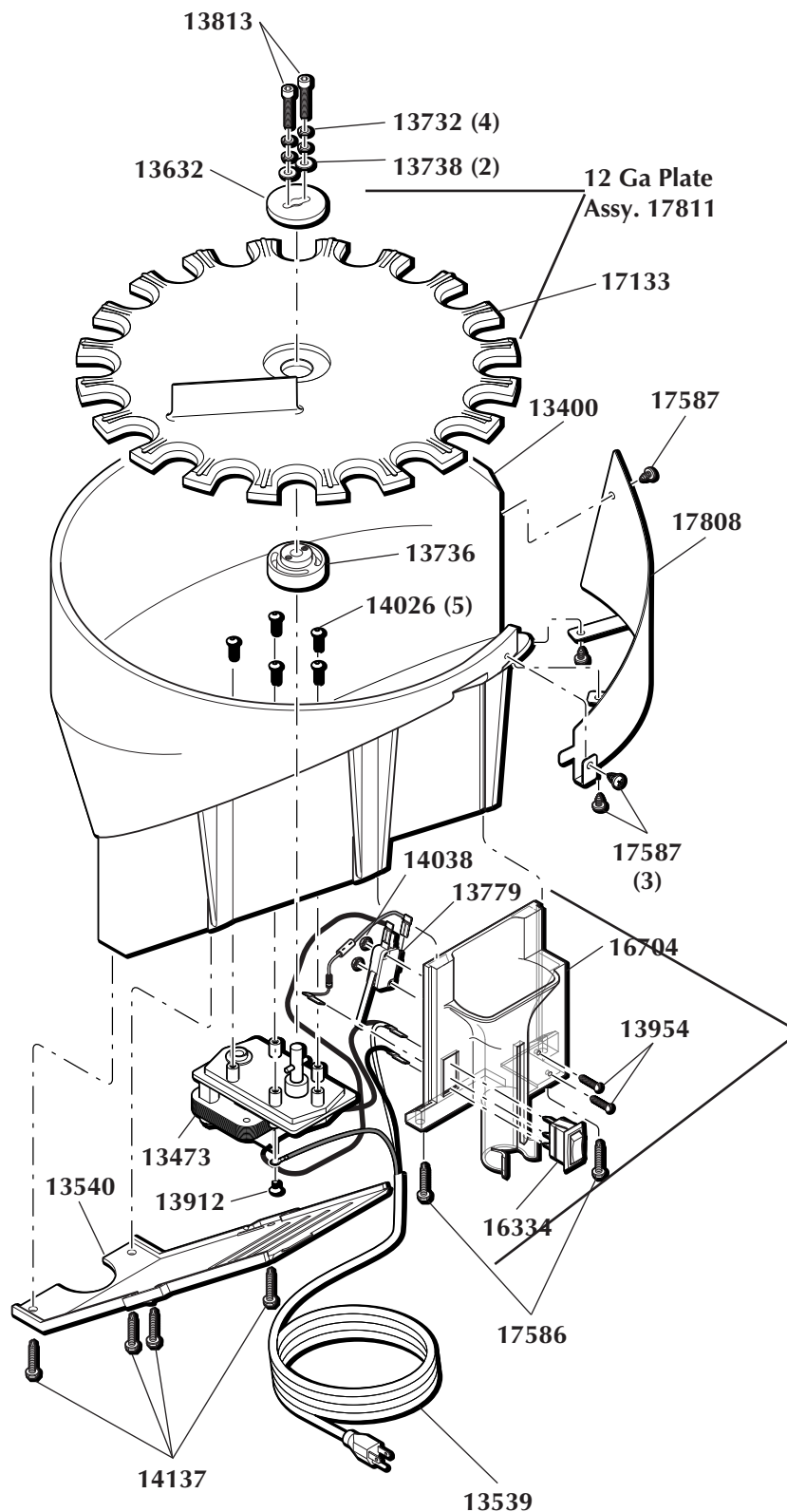
Upper Machine Assembly



Shot Container Assembly



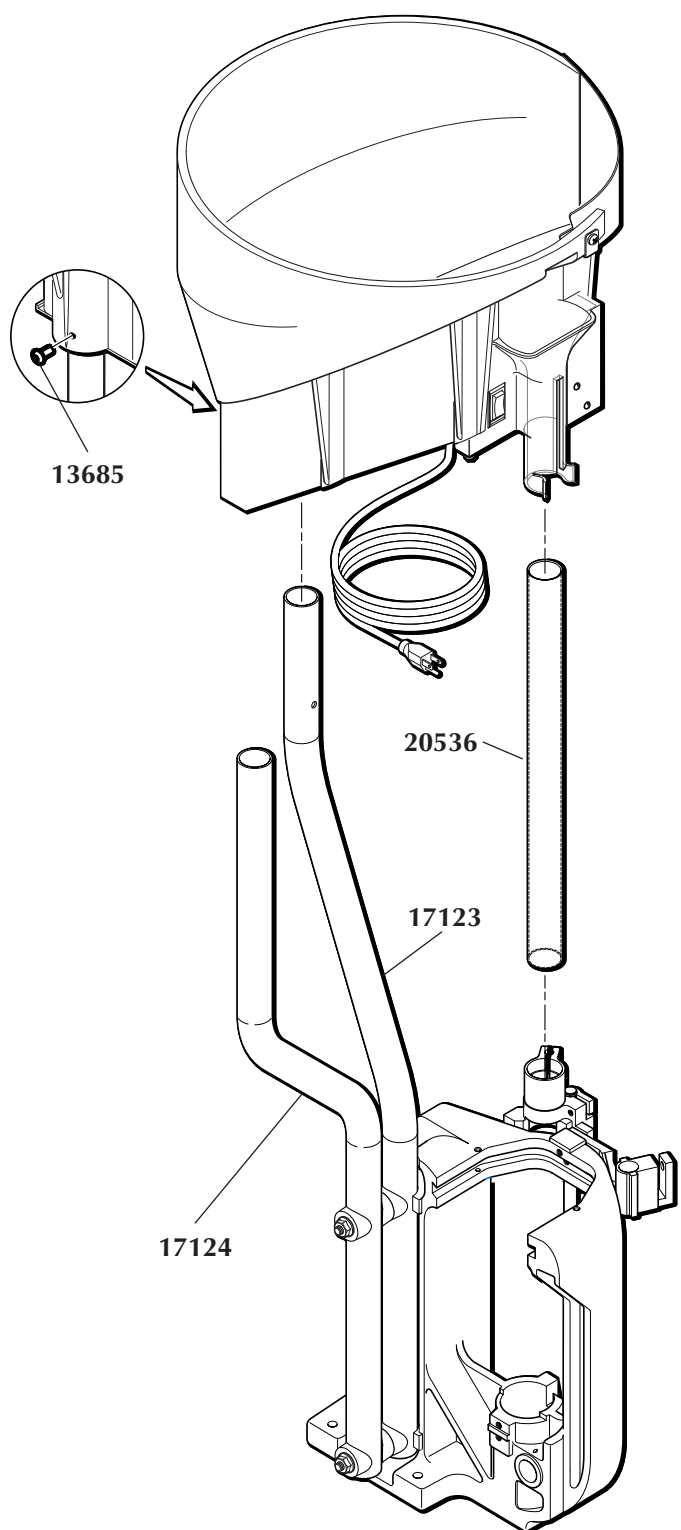
Casefeeder Assembly



Part # Description

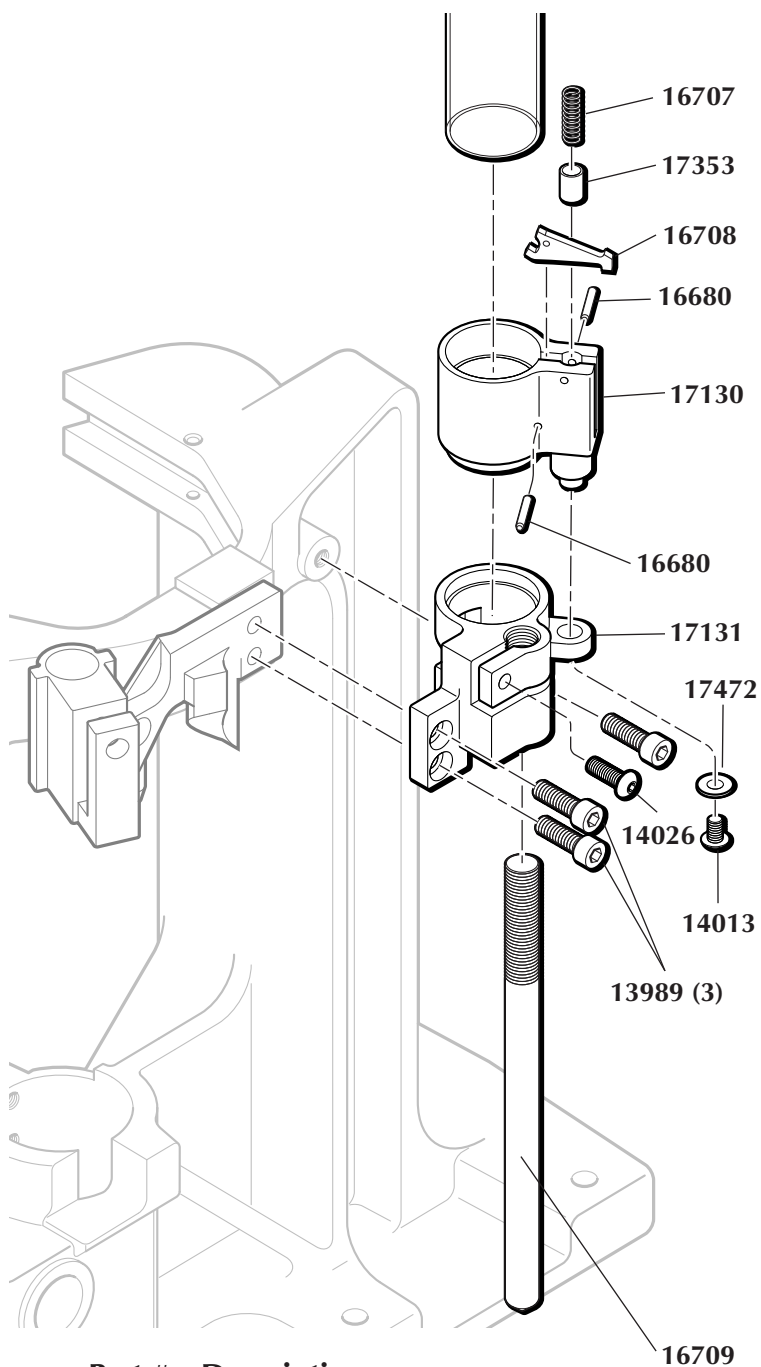
13400	Casefeed Bowl
13473	Casefeed Motor - 4 RPM
13539	Casefeed Cord Set
13540	Casefeed Motor Cover
13632	Casefeed Upper Disc Clutch
13685	1/4-20x5/8 BHCS
13732	10-32x1.00 SHCS
13736	Clutch
13738	SS Washers
13813	Lockwashers
13833	1/4 Terminal Connector
13903	1/4-20 Heli Coil
13912	8-32 Flat Head Screw
14025	1/8x3/4 Roll Pin
14026	Bowl/Motor Screws
14137	8x1 Cover Screw Zn.
16314	Butt. Connector
16336	Red 1/4 female Insulated Connector
16337	Blue 1/4 female Insulated Connector
17133	Shotshell Disc
17585	Zener Diode 1N5361B
17587	8x1/4 PHL. PN. Screws
17808	Casefeed Bowl Insert
97037	12 ga. Casefeed Assembly – 110v
97108	Shotshell Funnel Assembly
13779	Micro Switch
13954	4-40 Screws
14038	40-40 Nuts
16334	Lighted Rocker Switch
16704	Shotshell Funnel
17586	8x1 1/4 Funnel Screw

Casefeeder Bowl Mount



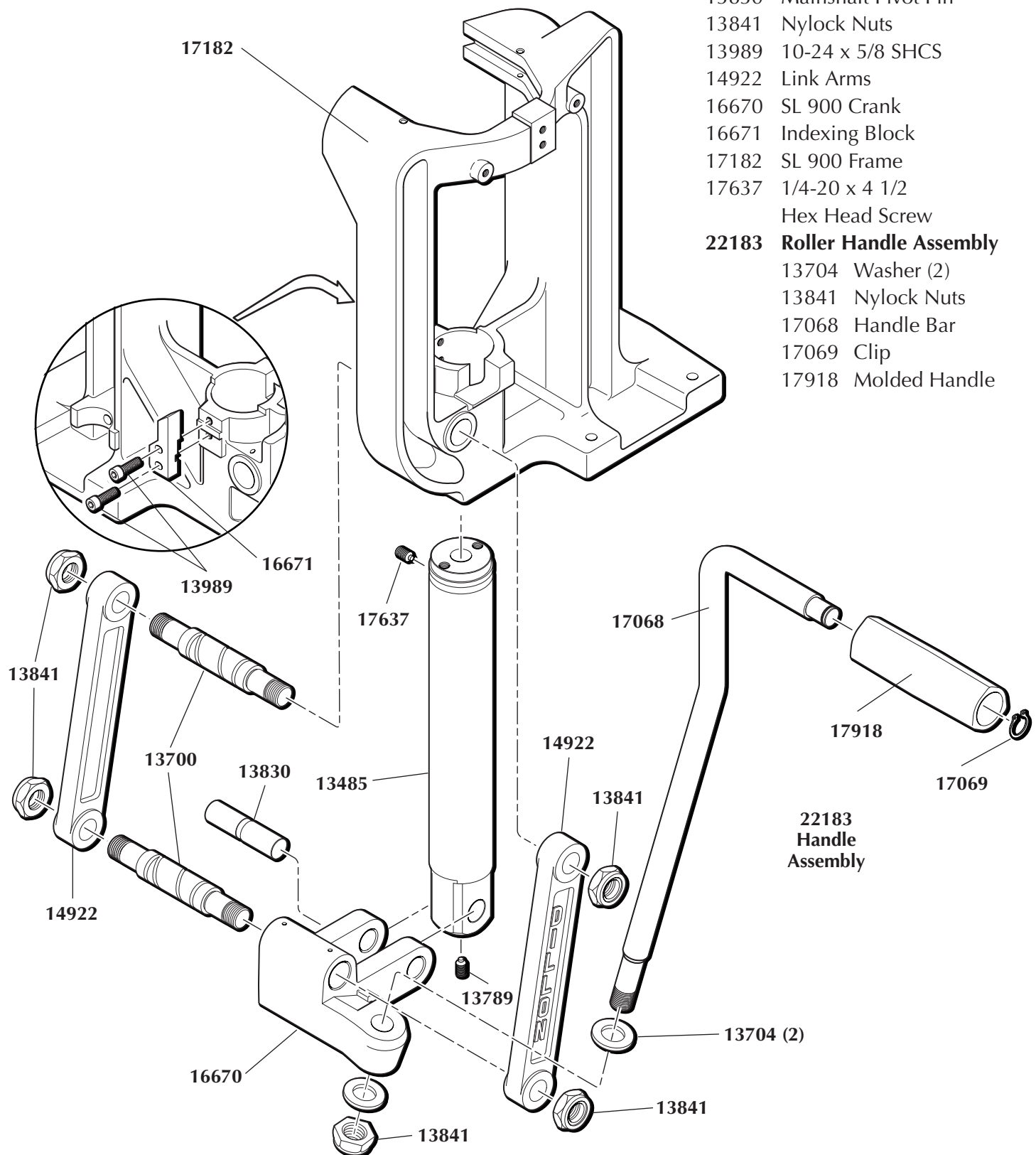
Part #	Description
13685	1/4x20x5/8 Screw
17123	SL 900 Casefeed Post
17124	Shot Post
20536	SL 900 Casefeed Tube - white label

Casefeed Assembly to Frame



Part #	Description
13989	10-24 x 5/8 SHCS
14013	8-32x3/8 SHCS
14026	8-32 x 1/2 BHCS
16680	1/16 x 1/2 Roll Pin
16707	Phish Compression Spring
16708	Casefeed Phish
16709	Camming Pin
17130	Casefeed Sleeve, 12 Ga.
17131	Casefeed Body
17353	Phish Spring Socket
17472	#8 Washer .032 Thick

Lower Machine Assembly



Chart

	28 Ga.
04	10615
11	10621
06	10618
07	10613
08	10619
a	n/a
41	n/a
a	18142
43	18143
09	10616
87	10187
12	10625
02	10602
03	10624
ow)	(green)
05	10617
10	10620
ow)	(green)

s needed to
ge conversion

part description	12 Ga.	20 Ga.	28 Ga.
Crimp Die	11109	10604	10615
Seat Plug	11110	10611	10621
Collet Sizer	16743	10606	10618
Decap Pin	16741	10607	10613
Powder Funnel	16746	10608	10619
Star Crimp Insert	16748	n/a	n/a
Starter Crimp, 8-star	17909	18141	n/a
Starter Crimp, 6-star	18140	n/a	18142
Threaded Screw	17899	18143	18143
Shot Drop Tube	16726	10609	10616
Shot Bar Insert	16739	10187	10187
Shellplate	16675	10612	10625
Locator Button	16753	10602	10602
Locator Insert	n/a	10603 (yellow)	10624 (green)
Casefeed Sleeve	17130	10605	10617
Wad Guide	16681 (red)	10610 (yellow)	10620 (green)

10

* indicates a gauge specific part

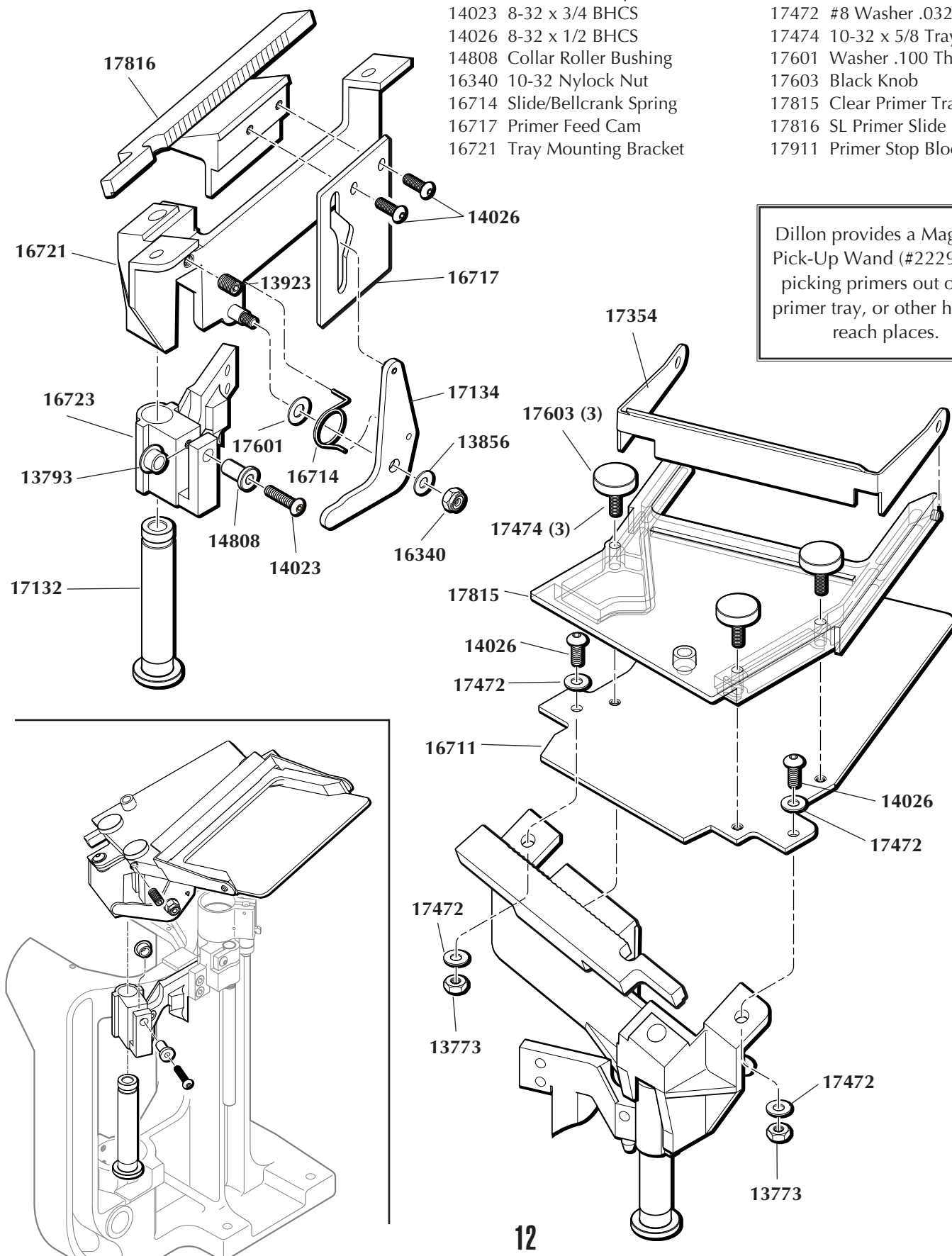
Primer Feed System Assembly - #19201

Part # Description

13773 8-32 Nut
13793 Collar Roller
13856 1/4 Washer SAE
13923 1/4-28 Brass Tip Set Screw
14023 8-32 x 3/4 BHCS
14026 8-32 x 1/2 BHCS
14808 Collar Roller Bushing
16340 10-32 Nylock Nut
16714 Slide/Bellcrank Spring
16717 Primer Feed Cam
16721 Tray Mounting Bracket

Part # Description

16723 Primer Feed Body
17132 Primer Drop Tube
17134 Primer Bellcrank
17354 Gate 3
17472 #8 Washer .032 Thick
17474 10-32 x 5/8 Tray Cover Screw
17601 Washer .100 Thick
17603 Black Knob
17815 Clear Primer Tray Cover
17816 SL Primer Slide Upper
17911 Primer Stop Block (with flag)



Automatic Powder Measure Assembly - #17817

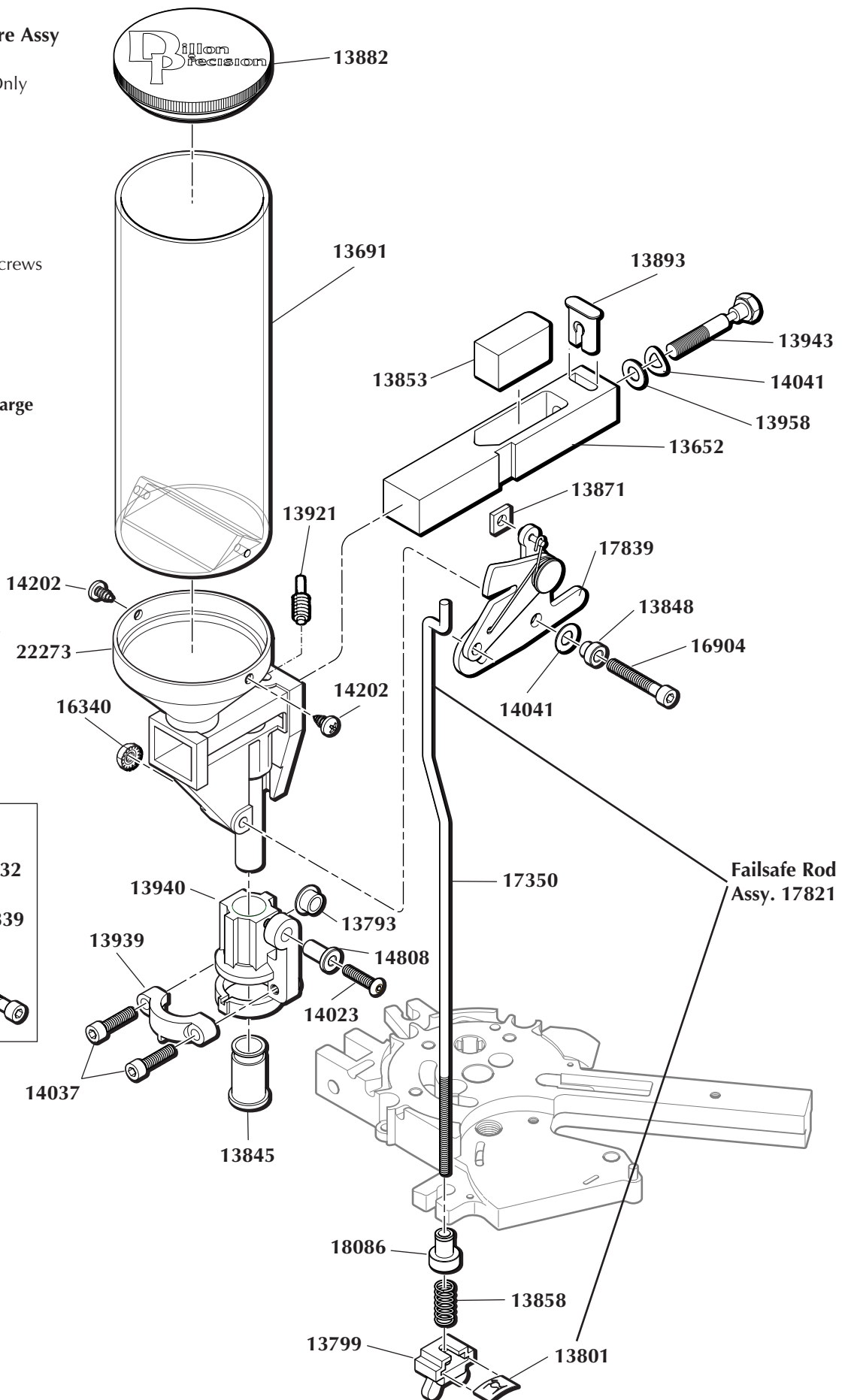
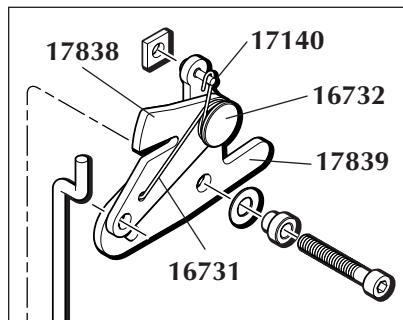
17817 SL900 Powder Measure Assy

Part # Description

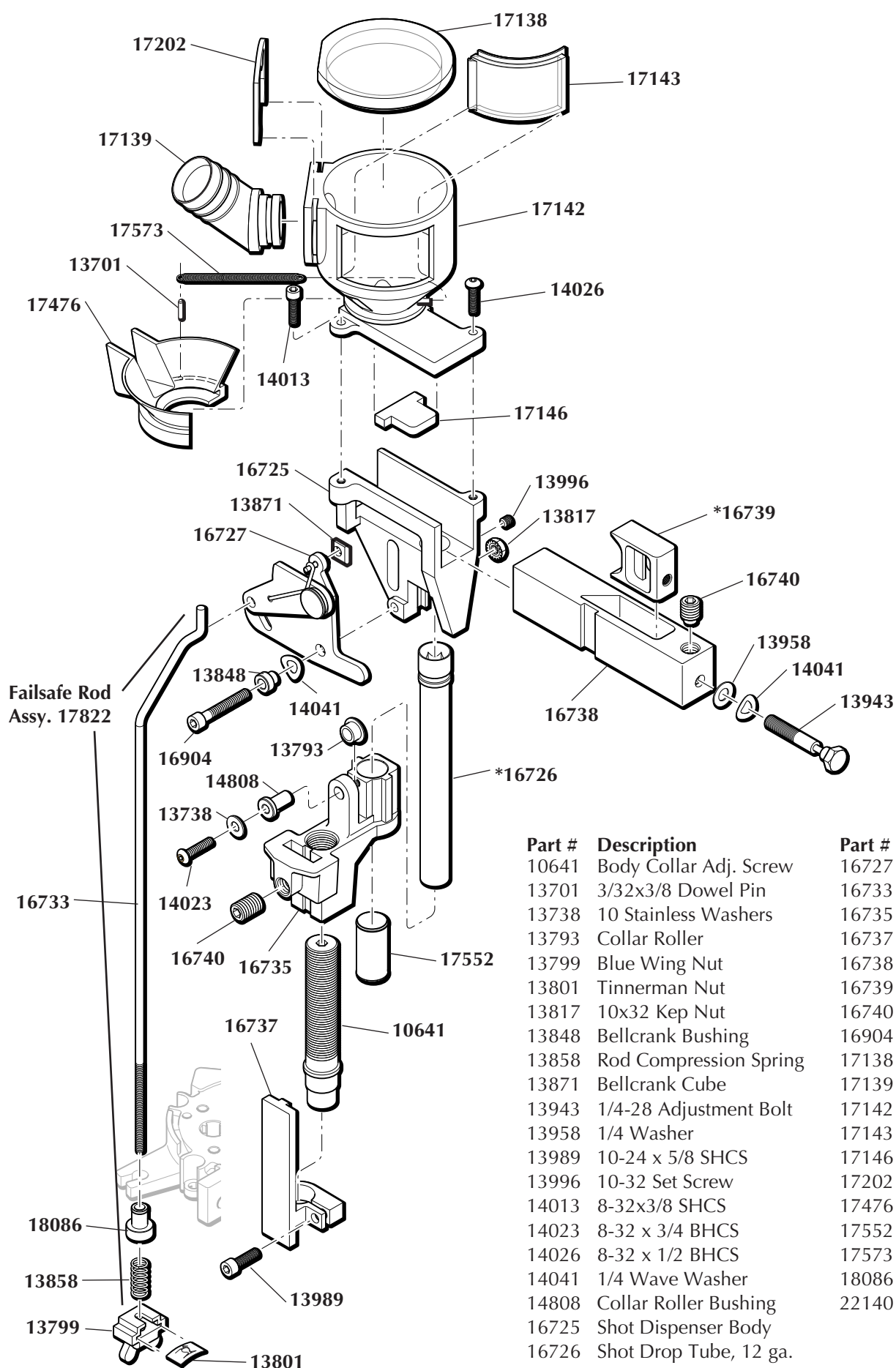
- 13691 Powder Measure Tube Only
- 13793 Roller
- 13845 Collar Sleeve
- 13882 Powder Measure Lid
- 13921 Powder Measure Plug
- 13939 Body Collar Clamp
- 13940 Connector Body Collar
- 14023 8-32 x 3/4 BHCS
- 14037 10-24 x 3/4 SHCS (2)
- 14202 Powder Measure Tube Screws
- 14808 Collar Roller Bushing
- 16340 Nylon Lock Nut
- 16731 Spring
- 16732 Pivot Pin
- 17140 Pin
- 22273 Powder Dispenser Body
- 20063 Powder Bar Assembly, Large**
- 13652 Powder Bar Part, Large
- 13853 Powder Bar Insert, Large
- 13893 Powder Bar Post, Large
- 13943 Powder Bar Bolt
- 13958 Powder Bar Bolt Washer
- 14041 Bowed Washer

Return Rod Assembly

- 13799 Blue Wing Nut
- 13801 Tinnerman Nut
- 13848 Bellcrank Bushing
- 13858 Rod Compression Spring
- 13871 Bellcrank Cube
- 14041 Bowed Washer
- 16904 10-32x1 1/2 SHCS
- 17350 Powder Bar Return Rod
- 17838 P/M Lock Link
- 17839 P/M Slotted Bellcrank
- 18086 Rod Bushing



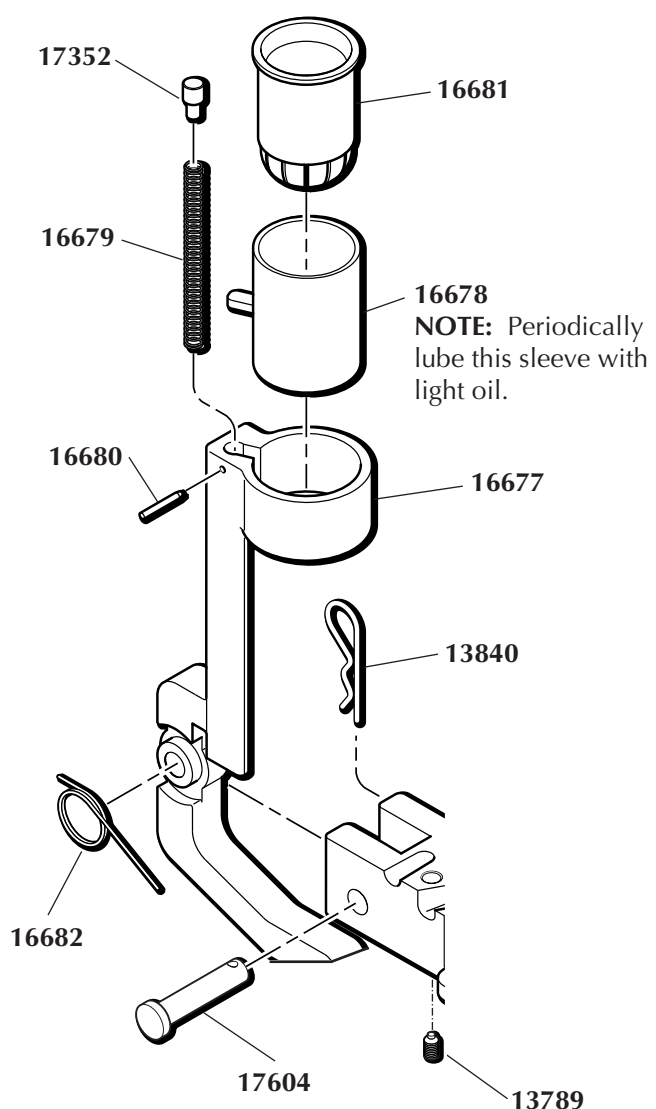
Shot Dispenser Assembly - #22134, 12 gauge shown



Part #	Description
10641	Body Collar Adj. Screw
13701	3/32x3/8 Dowel Pin
13738	10 Stainless Washers
13793	Collar Roller
13799	Blue Wing Nut
13801	Tinnerman Nut
13817	10x32 Kep Nut
13848	Bellcrank Bushing
13858	Rod Compression Spring
13871	Bellcrank Cube
13943	1/4-28 Adjustment Bolt
13958	1/4 Washer
13989	10-24 x 5/8 SHCS
13996	10-32 Set Screw
14013	8-32x3/8 SHCS
14023	8-32 x 3/4 BHCS
14026	8-32 x 1/2 BHCS
14041	1/4 Wave Washer
14808	Collar Roller Bushing
16725	Shot Dispenser Body
16726	Shot Drop Tube, 12 ga.

Part #	Description
16727	Shot Dispenser Bellcrank
16733	Shot Bar Return Rod
16735	Shot Body Collar
16737	Collar Guide/Clamp
16738	Shot Bar
16739	Shot Bar Insert
16740	3/8-16 half dog set screw
16904	1 1/2-10/32 SHCS
17138	Clear Dispenser Lid
17139	Shot Dispenser Fitting
17142	Shot Dispenser Top
17143	Shot Dispenser Window
17146	Rubber Insert
17202	Shot Fitting E-Clip
17476	Shot Drain
17552	Sleeve
17573	Shot Drain Ext. Spring
18086	Rod Bushing
22140	1/2-1 oz. Shot Bar Assembly for 20 & 28 ga.

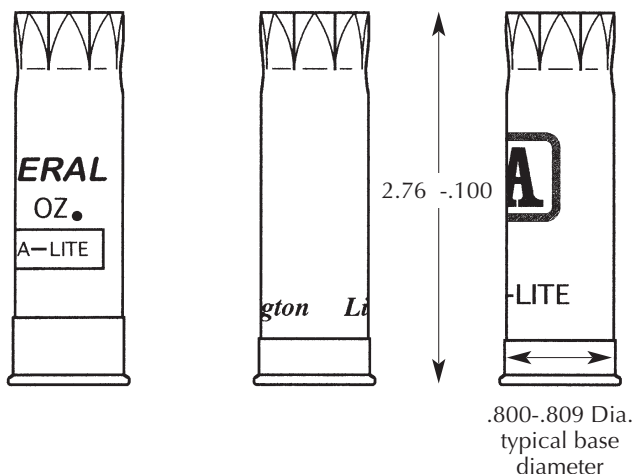
Wad Guide/Swing Arm Assembly #16802 - 12 gauge shown



Part #	Description
13789	1/4-28 Set Screw
13840	Hitch Pin Clip
16677	Wad Swing Arm
16678	Wad Guide Sleeve
16679	Sleeve Compression Spring
16680	1/16 x 1/2 Roll Pin
16681	Wad Guide
16682	Swing Arm Torsion Spring
17352	Spring Button
17604	Clevis Pin

Finished Shotshell Dimensions

Here are some dimensions of a typical 12ga. shotshell. Always use a quality dial caliper when measuring your shotshells. Length may vary dependent upon shotshell manufacturer. Dimensions shown are for maximum, uncrimped overall length. If you find it necessary to adjust the collet size die, try to shoot for a middle of the road measure of the brass base.

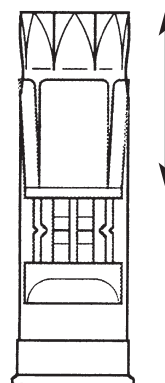


Wad Seated Depth

When developing loads for shotshells be aware of your "wad seated depth." Here's a reference guide for the popular wad and shot weight used presently.

Wad & Shot	Approx. Depth
7/8 - 1 oz.	1.12 - 1.20
1 1/8 oz.	1.30 - 1.35
1 1/4 oz.	1.45 - 1.50

Example, if your loads currently use a wad for 1 1/8 oz. of shot and you decide to reduce your shot weight and switch to 7/8 of an ounce wads, readjust the shot dispenser tube via the body collar adjustment screw. Clockwise rotation raises the shot dispenser tube and decreases the depth the wad is seated into the shotshell. Counterclockwise rotation lowers the shot dispenser tube and the wad will get seated deeper into the shotshell.



Finished Round Information

Your loaded round length will vary due to loads used, type of wads, and brand of shotshells.

We found that a majority of the Winchester ammo loaded fell toward 2.30 - 2.325 length.

The Remington and Federal ammo loaded measured 2.33 - 2.350 overall length.

Always use a reputable loading manual when reloading shotshells.

