

167	67
167 TD	30 Field
168	67-VR
911	511
918	18
842	840
487-T	187
121	120
424	24-F
410	110E
489	89
434	34
474	174 - 170

**Gamble Skogmo, Inc. (Hiawatha)**

Model 189-J	87-J
180-N	87-N
130	30
594	944
594-Y	944-Y
567	67
1300-567 VR	67-VR
587	187
521	120

**Kimel Industries**

Kimel Camper	9478
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**Montgomery Ward (Western Field)**

Model SB 100 -	
100A -	
100B	100
SB 115	115
SB 115A	115A
808	87
808N	87N
808C	87J
SB 300	311
SB 300C	311C
SB 312	540 DL
SB 312C	540C
SB 712	840
836	187N

**J. C. Penney Co., Inc. (Foremost)**

Model 6670	67
6647	944
6400	340
6610	120
6870-H	30H

**Sears, Roebuck & Co. (Sears)**

Model 101.7	311
101.7C	311-C
101.25	59
101.40	940, 940Y
101.100	96, 96Y
101.1120	951
101.1380	18-C
101.1610	540 DL
101.1701	540 BDE
101.2830	73
101.5350	18
101.5380	18 AC
101.5410	18 S
101.52772	65M
101.53521	340
101.5410 D	18 DS
101.5350 D	18 D
101.5380 D	18 DAC
101.1701C	540 BSE
97	94
97 AC	94 AC
98	944
18 AC	18 AC
73	73
234	234

**Simmons (Qualls Fargo)**

Model 411	540 DL
411E	540 BDE

**Talo (Golden West)**

Model 710 DL	110 E
176 VR	67 VR
176 DL	67
494 DL	944
781 DL	187
12 DL	120

**Western Auto Supply Co. (Revelation)**

Model 250 D	110 D
300-300A	30-30 AC
300 H	30 H, 30 AC
250	110E
230	340
350 A	94 D
355 YE	947 YE
360 C	540 C
355 Y	94 Y
360	540
400 - 400 C	745 - 745 C
225	840
260	174 - 170
350	94
356 Y	944 Y
460	511
336	951
101	73
101 Y	73 Y
160	80
135	187
115	246
103	89

## WHERE CAN I GET?

The NRA offers the following information in response to multiple inquiries by members, but has not tested and does not necessarily recommend the products mentioned. Items marked with an asterisk (\*) are available only through a federally licensed dealer. It is suggested that all inquiries to companies listed be accompanied by a stamped self-addressed envelope.

Source information on other products is available from Arthur Pence c/o The National Rifle Ass'n., 1600 R.I. Ave. N.W., Washington, D.C. 20036. In this case please include a legal size stamped, self-addressed envelope.

### Counterbores for cutting coned breech in Springfield, old Winchester Model 70 or 54 barrels. Piloted counterbores for Remington 700, Savage 99 and Weatherby rifles

JGS Die & Machine, 1141 So. Sumner Rd., Coos Bay, Ore. 97420

### Frames\* and other parts required for making "Webley Game Getter" as in July *American Rifleman*

Sarco, 323 Union St., Stirling, N.J. 07980

### Firearms bills of sale, log books, separate log sheets and envelopes for collectors' gun data and literature

Accuracy Printing, 339 Richmond St., El Segundo, Calif. 90245

### Do-it-yourself kits for leather holsters, slings, sheaths and belts

Tandy Leather Co., One Tandy Center, Ft. Worth, Tex. 76102

### Rubber bullets for use with standard cartridge cases and primers

Gopher Shooter's Supply, Box 278, Faribault, Minn. 55021

### Limited edition Colt Gold Cup pistols commemorating the 75th anniversary (1903-1978) of the National Matches at Camp Perry\*

Ashland Shooting Supplies, 209 Orange St., Ashland, Ohio 44805

### Steel Oberndorf Mauser-style trigger guard with inside release button and hinged floorplate for Model 70 rifles

H. L. "Pete" Grisel, 61912 Skyline View Dr., Bend, Ore. 97701

### Card and fiber wads in all gauges

Ballistic Products, Inc., 2105 Shaughnessy Circle, Long Lake, Minn. 55356

### Tikkakoski guns,\* parts and service

Mandall Shooting Supplies, Inc., 7150 4th St., Scottsdale, Ariz. 85251

# In My Experience

## Armorer's M1A Comments

Editor:

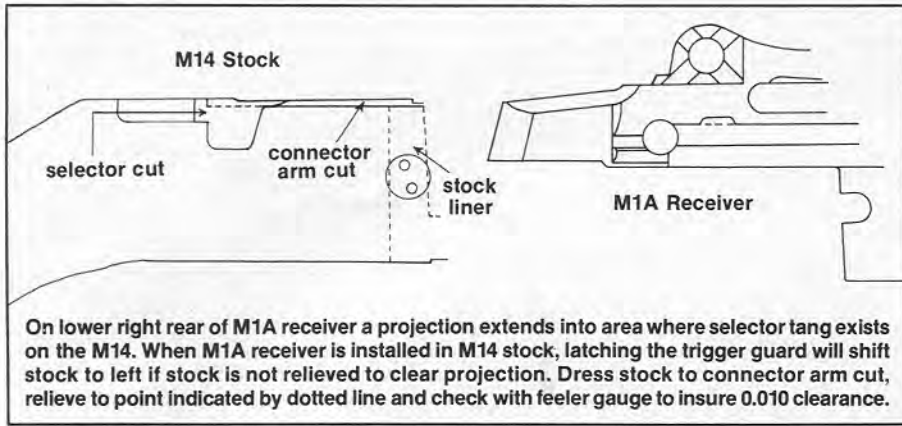
After reading "Retesting The M1A Lookalike," in the January, 1980, *American Rifleman*, I would like to share some similar experiences I've had as the armorer for the Pennsylvania Rifle & Pistol Ass'n. team.

I have experienced problems in fitting components to M1A receivers, which have been common to all four receivers which I have worked on. With one exception noted below, all components have been government issue.

Binding of the operating rod in its slot is corrected by filing the binding areas of the rod until it fits the slot with only a barely perceptible horizontal and vertical play. If this play is not present, the rod will flex and bind during the firing cycle, causing malfunctions.

Binding of the rear sight aperture approximately 10 minutes above mechanical zero is due to the forward slot for the sight cover being 0.015" thinner on the M1A than on the M14.

With G.I. sight covers, the rear sight



cannot be lowered fully. Binding usually occurs below the normal 200-yd. zero, so the shooter may not even notice it. I correct this problem by thinning the forward 5/16" of the aperture base (the curved and grooved section that fits into the rear sight base).

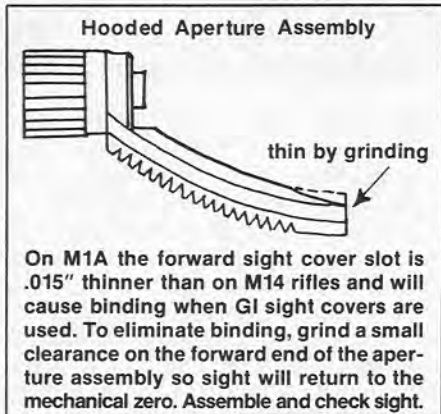
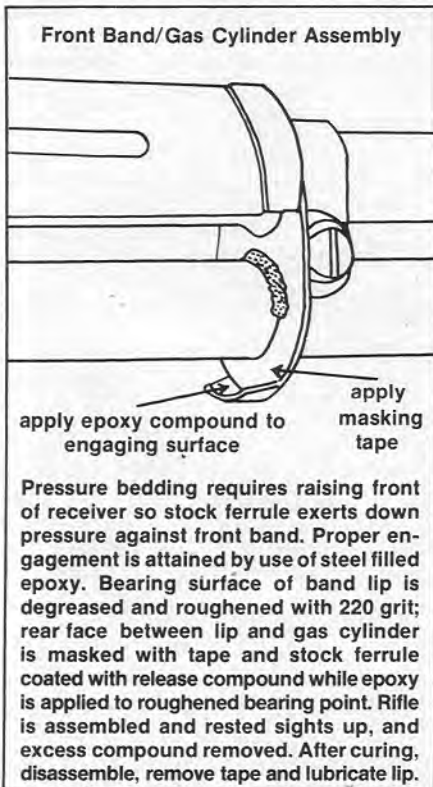
With one receiver, there was severe binding of the magazine in the magazine well. I turned to the manufacturer for assistance and was informed that at the time the receiver was made, there had been some problems with warpage during heat treatment. After being advised of the proper procedure for correcting the problem, it was accomplished in a few minutes with the proper files. Note: Springfield Armory Inc. will correct such problems under warranty. Owner correction may void this warranty and is not recommended unless the owner is sure of what needs to be done and is willing to

assume the responsibility and consequences.

On my later M1A, I got a commercially manufactured trigger housing. It was necessary to rebed this housing twice before obtaining proper clamping pressure when the trigger guard was closed. At that point, the hammer nose did not properly line up with the cam notch in the bolt, and hand cycling of the operating rod was quite difficult. I substituted a G.I. housing and couldn't even begin to latch the guard. The excess bedding was removed, the G.I. housing bedded to the rifle, and everything then worked properly.

On the lower right rear of the M1A receiver, a ridge extends from where the selector tang would be located on the M14 forward to the receiver leg. When the M1A receiver is placed in an M14 stock, this ridge contacts the stock before it is fully seated, and a clearance cut must be made to prevent this. It is possible to glass-bed an M1A without making this cut, and all seems to go normally until the trigger guard is partially closed. Then the front of the receiver pivots to the left. This movement can be masked by the barrel-locating fixture, but you still end up with the barrel pointing towards 11 o'clock and all sorts of accuracy problems. I have examined M1As built by others (including some excellent service armorers) that suffered from this same problem.

In order not to be handicapped, the competitor needs a 200-yd. X-ring accu-



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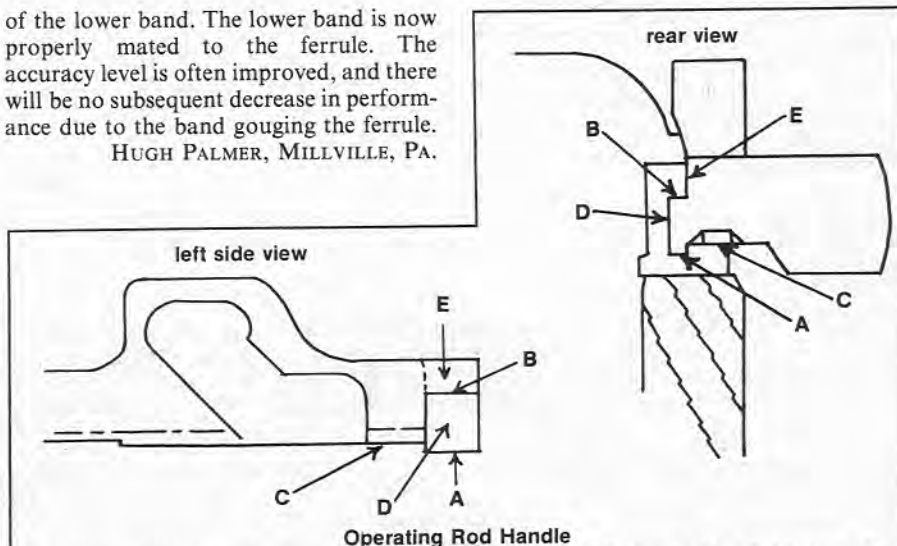
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racy level of 1½ m.o.a. We have found this level to be readily obtainable with the National Match M14, properly adjusted, and M118 ammunition. Doing this is largely dependent on proper bedding. One important component of proper bedding is not always understood and is often overlooked.

Proper pressure bedding in the M1 and M14 is dependent on proper fit of receiver to stock and of the lower band to the stock ferrule. The design and construction of the M1 are such that this is almost always properly obtained, but in the M14, it is often quite difficult. Service marksmanship training units often rely on selective fitting of gas cylinder/lower band assemblies to achieve even contact. The most expedient method for civilian armorers is the use of steel-filled epoxy compound. The compound is applied to the lip of the lower band, the ferrule is coated with release compound, and the rifle carefully assembled. The excess compound is removed, and then sufficient time is allowed for the material to properly set. Clearance must be maintained between the front surface of the ferrule and the rear surface

of the lower band. The lower band is now properly mated to the ferrule. The accuracy level is often improved, and there will be no subsequent decrease in performance due to the band gouging the ferrule.

HUGH PALMER, MILLVILLE, PA.



Operating Rod Handle

G1 operating rods may bind in receiver slot, which requires relieving rod for slight play, not a sliding tight fit, as this causes malfunctions. Clearance of 0.005" is correct for reliable function. Fitting requires assembling bolt and rod to receiver with rod guide installed. If hand cycled repeatedly, wear pattern can be observed. Darken worn areas with cold blue before proceeding. To relieve vertical binding, check for bottoming of rod lug in receiver slot; if lug has clearance and still binds, relieve top of surface B and bottom of C alternately to obtain fit. Lateral binding is corrected similarly by observation of contact at points D and E.

## Berdan Primer Decapping

Editor:

Berdan primed cartridge cases usually have two off-center flashholes, unlike cases with Boxer primers that have one large, centrally located flashhole. Berdan primers cannot be removed with the decapping pins used for decapping Boxer primers. The anvil on which the Berdan primer pellet is crushed is an integral portion of the cartridge case. Thus, the flashhole cannot be centrally located.

Many cartridge cases, mostly in European and English calibers, are available only with Berdan primers. Those who own firearms chambered for such cartridges find decapping Berdan cases a difficult and tedious chore.

It has been suggested to remove Berdan primers by filling the cartridge case with water and driving a tight-fitting wooden dowel into the case with a hammer. I did not find this too efficient because the dowel seldom fitted tightly enough and allowed water to squirt from the case mouth; a rather messy operation.

My way of removing the primers is the old hydraulic method, though improved:

1. Necksize, but do not expand the cases.

2. Fill the case with water.

3. Press the appropriate expanding plug into the water-filled case and the primer will pop out.

I have used mostly the expanding plugs with the Lyman 310 loading tool. However, most other dies may be used. Just make sure to remove the Boxer decapping

pin from the expanding plug. Forcing the expanding plug into the case quickly will increase pressure and assure better primer removal. This method is clean and time tested. It worked well for me on dozens of RWS and DWM cases in many different calibers. It even worked on Berdan primed .30-'06 military cases, provided they were not crimped too tightly.

John J. Stransky, Nacodoches, Tex.

## Stock Cleaning Formula

Editor:

I have used many commercial solutions for cleaning "grungy" gunstocks and even for refinishing old furniture. I have found none cheaper or more effective than a mixture of equal parts of boiled linseed oil, vinegar and turpentine.

JAMES E. MALO, WORCESTER, MASS.

## BOOKS IN BRIEF

### Simonov SKS-45 Type Carbines

Wyatt Lamont & Stephen Fuller/Military Arms Research Service, Box 26772, San Jose, Calif. 95159-6772

A thorough and well-prepared digest of information on Soviet, Soviet-satellite and other nations' manufacture and use of the Simonov semi-automatic carbine and its ammunition. Profusely illustrated with previously unpublished photographs and excellent line drawings. — 218 p. Paperbound \$19.95 plus \$1 postage.

### Makers of History

F. Romer/Quail Ranch Books, 2210 Wilshire Blvd., Suite 573 A, Santa Monica, Calif. 90403

In 1926, Colt offered this promotional booklet which contained fiery accounts of the revolver's role in American history. This reprint contains all the original text and the five full-page drawings by R.L. Frederick. — 64 p. Paperbound \$3.95.

### Moderne Waffen, Munition, Jagdartikel

Blacksmith Corp., P.O. Box 424, Southport, Conn. 06490

This is a well-executed reprint of the 1911 catalog of the arms dealer August Stukenbrok of Einbeck, Germany. Hundreds of contemporary rifles, shotguns, drillings and handguns are shown and priced with the accompanying text in German. — 200 p. Paperbound \$15 plus \$1.25 shipping.

### Gun Collector's Digest

Joseph J. Schroeder, Editor/DBI Books, Inc., One Northfield Plaza, Northfield, Ill. 60093

The third edition of this popular series has 36 all-new articles on collectibles ranging from the Bittner pistol through the M1903 Springfield to semi-modern .22 rifles. — 256 p. Paperbound \$9.94.

### The Muzzleloading Hunter

Rick Hacker/Winchester Press, P.O. Box 1260, Tulsa, Okla. 74101

In refreshingly readable style, the author gives much valuable information on the history, methods and equipment of this fast-growing sport. — 283 p. \$14.95.