

WARNINGS

Always handle this rifle as if it were loaded and ready to fire.

Keep it pointed in a safe direction, down range or towards the impact area.

Keep the safety ON (to the rear in the "S" position) until you are ready to fire.

Always look into the chamber before cleaning the weapon to visually determine it is unloaded.

Check the bore and chamber for obstructions before loading and attempting to fire.

Be sure you have the proper ammunition for the rifle (7.62mm NATO, .308 Win., or equivalent).

A hazardous condition may occur if parts or components are interchanged between rifles. Some interchanging may effect zeroing and/or accuracy of the weapon.

Hearing damage may occur unless proper hearing protection is worn when firing the system.

Always observe the warnings in this manual, as they can save your life!

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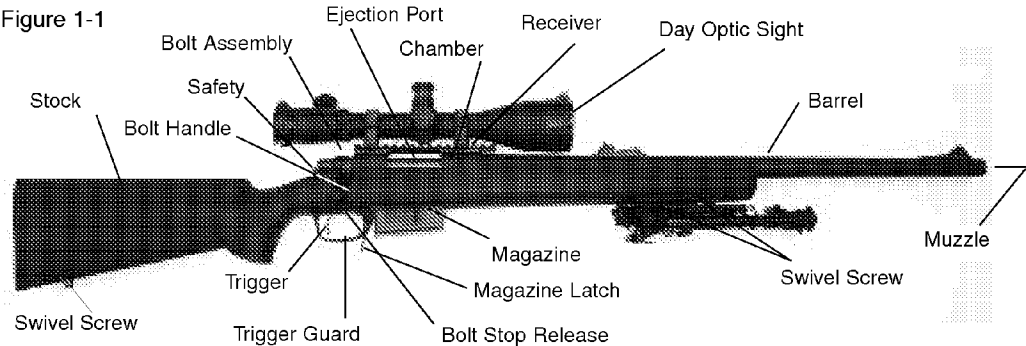
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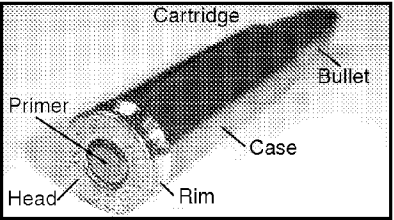
CHAPTER 1
INTRODUCTION

SECTION I: GENERAL INFORMATION



This figure shows the main parts of the rifle with the day optic sight. The figure will aid in understanding the instructions in this book.

Figure 1-2
AMMUNITION



This figure shows the parts of the ammunition.

1-1. CONTENTS

This manual contains instructions for the operation and maintenance of the Model 700P Export.

This manual is published for the purpose of identifying an authorized commercial manual for the use of the personnel to whom this equipment is issued.

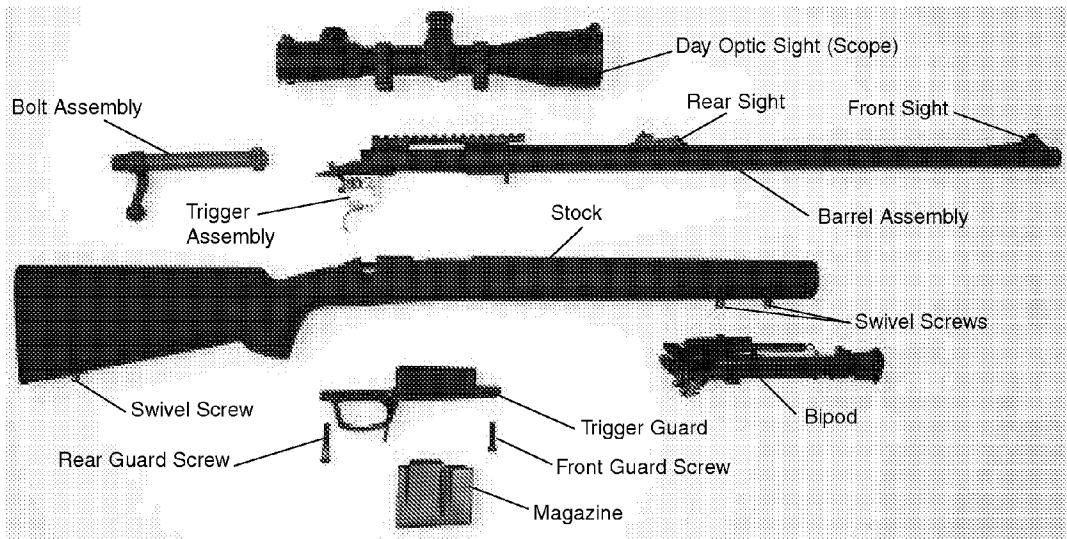
All maintenance for the Model 700P Export is operator level. Any deficiencies that occur which the operator cannot correct will require the weapon and day optic sight be returned in to the proper maintenance/supply channel for return to Remington.

SECTION II: EQUIPMENT DESCRIPTION

1-3. TECHNICAL SPECIFICATIONS:

Ammunition - 7.62mm NATO, 308 Win.
Barrel rifling - 5 radial with 1 turn in 11.2 inches
Muzzle velocity - Approx. 2,600 feet per second
Maximum effective range - 800 meters
Overall length (butt to muzzle) - 42 1/8 inches
Magazine capacity - 5 rounds in 7.62mm
Rifle weight with sling - 12 lbs. nominal
Day optic sight magnification - 4.5-14 power with adjustable focus
Day optic sight weight with rings - 1.86 lbs. nominal
Combat Weight (rifle with sling, day optic sight and full magazine) - 14.25 lbs.
Deployment kit with case:
 Weight - 3.5 lbs.
 Dimensions - 8 1/2" x 7" x 3 1/4"
Model 700P Export System:
 Total Weight - 52 lbs.
 Dimensions - 53.8" x 16.5" x 6.7"
Bipod weight .7 lbs.

1-4. MAJOR RIFLE COMPONENTS



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CHAPTER 2

OPERATING INSTRUCTION

SECTION I. DESCRIPTION

2-1. DESCRIPTION:

The Model 700P Export rifle is a 7.62mm NATO bolt action 6-shot repeating rifle.

- 2-2. THE SYSTEM.** The complete system consists of the rifle, day optic sight, sling, bipod, deployment kit, cleaning kit (rifle and optic), soft rifle carrying case, system case, and operators manual.
- 2-3. OPERATING FLEXIBILITIES** This is a bolt action 6-shot repeating rifle. The day optic sight can be removed and replaced easily, and with less than 1/2 minute of Angle (MOA) change in zero. However it is recommended that the day optic be left on the rifle. Metallic (iron) sights are provided for a back-up sighting system.

SECTION II: SERVICE UPON RECEIPT OF MATERIAL

WARNING

Before starting an inspection, and/or performing any maintenance procedures, be sure to clear the rifle. Do not squeeze the trigger until the rifle has been cleared. Inspect the chamber and magazine to be sure that both are empty. Check to see there are no obstructions in the barrel. Do not keep live ammunition near work or maintenance area.

2-4 SERVICE UPON RECEIPT

- a. Check system case for damage. Inspect the equipment for damage incurred during shipment.
- b. Inspect contents of system case against Model 700P Export System parts list (see Appendix D).
- c. Field strip rifle and ensure there are no missing parts (see para 3-4).
- d. Clean rifle. After cleaning, inspect bore to ensure that there are no obstructions: i.e., cleaning tips, cleaning patches remaining in the bore (see para 2-11 and 3-5).
- e. Perform safety/function checks (see para 3-7).
- f. Check zero of rifle with day optic sight (see para 2-22).

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- g. Clean weapon (see para 3-5).
- h. Weapon is ready for service.

SECTION III: OPERATIONS AND CHARACTERISTICS

2-5 THE SAFETY

- a. The safety is located on the right rear side of the receiver and provides protection against accidental or unintentional discharge under normal usage when properly engaged.

- b. To engage the safety, put the safety in the "S" position (see Figure 2-1).
- c. Always put the safety in the "S" position before handling, loading or unloading the rifle.

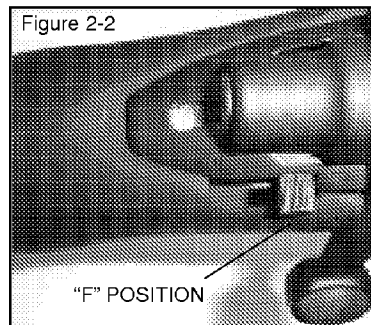
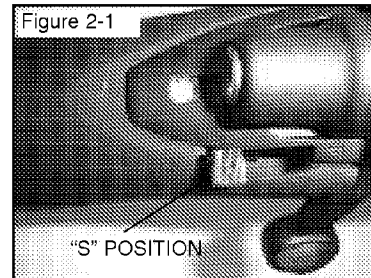
WARNING

The rifle will fire when the trigger is pulled and the safety is in the "F" position.

- d. When you are ready to fire the rifle and the sights are on target, put the safety in the "F" position (see Figure 2-2).

2-6 THE BOLT ASSEMBLY

The bolt assembly locks the cartridge into the chamber.



2-7 CLEARING PROCEDURES

- a. Place weapon on safe ("S").

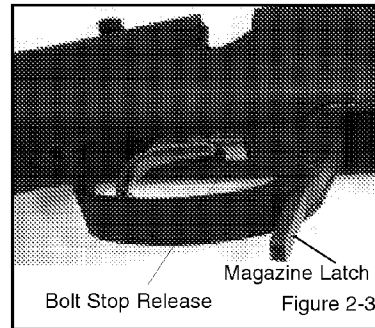
WARNING

If the weapon does not go on safe ("S") perform the following steps with extra caution.

- b. Lift the bolt handle fully and pull to the rear; (Place weapon on safe if unable to in Step a.)
- c. Inspect chamber for ammunition. Remove ammunition if present.
- d. Inspect magazine for ammunition. (If ammunition is in the magazine, then press magazine latch and remove magazine. (see Figure 2-3).
- e. Weapon is cleared.

2-8 TO REMOVE BOLT ASSEMBLY

- a. Perform the clearing procedures.
- b. Push the bolt stop release up (see Figure 2.3).
- c. As you push the bolt stop release, slide the bolt assembly from the rifle.

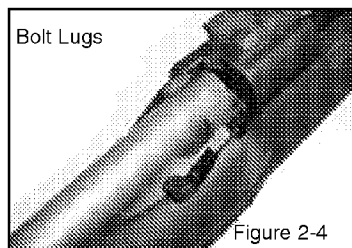


2-9 TO INSTALL THE BOLT ASSEMBLY

- a. Point the rifle in a safe direction.
- b. Put the safety in the "S" position.

NOTE

Bolt must be cocked to be installed. See instructions para 3-6.



- c. Align the lugs on the bolt assembly with the receiver (see Figure 2-4).
- d. Slide the bolt assembly into the receiver and push all the way in.
- e. To lock the bolt assembly into position, push the bolt handle down so that locking lugs on the bolt are locked into the receiver.

2-10 THE TRIGGER ASSEMBLY

- a. Pulling the trigger fires the rifle when the safety is in the "F" position.
- b. The trigger is adjusted at the factory for a 4.5 lbs. nominal trigger pull force.

WARNING

Never remove the trigger mechanism, or make adjustments to the trigger assembly.

2-11 THE BARREL

- a. To check the inside of the barrel:
 - (1) Perform the clearing procedures (see para 2-7).
 - (2) Remove the bolt assembly (instructions on para 2-8).
 - (3) Look through the inside of the barrel from the chamber end to the muzzle.
- b. To remove an object from inside the barrel: (dirt, residue from cleaning patch, etc.)
 - (1) Use the cleaning rod.
 - (2) Push the cleaning rod from the chamber end all the way through the barrel until the rod comes out the muzzle.
 - (3) Clean the barrel following instructions para 3-5).

2-13 HOW TO MOUNT THE DAY OPTIC SIGHT

WARNING

Be sure the mounting base is fastened securely to the rifle. Loose mounting may cause the day optic sight and base assembly to come off the rifle when firing, possibly injuring the shooter.

- a. Before mounting the day optic sight, lubricate the threads of each mounting nut.
- b. Insure smooth movement of each mounting nut and mount claw.
- c. Inspect for burrs and foreign matter between each mounting ring nut and mounting claw.
- d. Set the day optic sight and rings on to the base (see Figures 2-7 and 2-8).

NOTE

There are multiple mounting slots. Select the set of slots which provide the proper eye relief. Once a set of slots is chosen, the same set should always be used in order for the system to retain zero.

Ensure mounting surface of base is free of dirt, oil or grease.

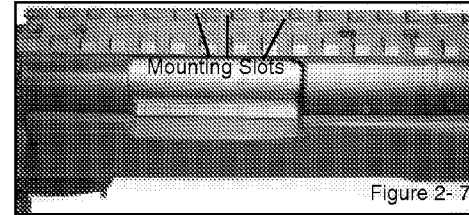
- e. Set each ring bolt spline in the selected slot (see Figure 2-7).
- f. Slide the rear mount claw against the base. Finger tighten the mounting ring nut.
- g. Slide the front mount claw against the base. Finger tighten the mounting ring nut.

CAUTION

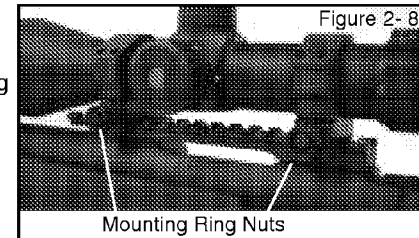
Steps h. and i. should be performed only when the day optic sight is attached/retached over an extended period (more than 50 cycles) and rezeroing of the system cannot be accomplished through live firing. Otherwise use the T-handle torque wrench as described in steps j. through l.

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- h. Utilizing the 1/2" combination wrench, tighten the rear mounting ring nut 1/4 turn (i.e. rotate 90 degrees).
- i. Utilizing the 1/2" combination wrench, tighten the front mounting ring nut 1/4 turn (i.e. rotate 90 degrees).
- j. Using the T-handle torque wrench, which is preset to 65 in. lbs., tighten the rear mounting ring nut.



- k. Using the T-handle torque wrench, tighten the front mounting ring nut.
- l. After initial 10 rounds have been fired, retorque the rear then the front mounting ring nut.



2-14 DISASSEMBLY

- a. Utilizing the 1/2" combination wrench, loosen the front mounting ring nut (rotate counterclockwise).
- b. Utilizing the 1/2" combination wrench, loosen the rear mounting ring nut (rotate counterclockwise).
- c. Rotate the day optic sight towards nuts.
- d. Remove the day optic sight.

SECTION IV. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

WARNING

Before starting an inspection procedure clear the weapon. Inspect the chamber and magazine to ensure that they are empty. Do not keep live ammunition near work/maintenance area.

2-15 GENERAL

If Your Equipment Fails To Operate. Refer to troubleshooting in Chapter 3.

2-16 PMCS PROCEDURES

The PMCS lists those required checks and services to be performed by personnel who operate the Model 700P Export before and after use.

- a. **Before Operation.** Perform your before (B) PMCS. This is a brief service to ensure the Model 700P Export is ready for operation.
- b. **During Operation.** Not Applicable.
- c. **After Operation.** Perform your after (A) PMCS. This service should correct, where possible, all operational deficiencies so the Model 700P Export will be ready to operate when needed.
- d. **Not Ready/Available If Column.** The PMCS table also lists those deficiencies which make the Model 700P Export not ready/available. If these deficiencies are not correctable such deficiencies will require that the complete weapon system be turned in to the proper maintenance/supply channel for return to Remington. (See Chapter 3 Section IV, Preparation For Shipment).

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PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) TABLE

B=Before Operation				D=During Operation		A=After Operation	
Item No.	Interval			ITEM TO BE INSPECTED Procedure	Equipment is NOT READY/AVAILABLE IF,		
1	●			● Equipment. Check the Model 700P Export Parts List for completeness and serviceability (see Appendix D).			
2	●			● Rifle. Visually inspect the entire rifle for damaged or missing rifle components (see Figure 1-1).			
				There are damaged or missing rifle components.	←		
3.				● CLEAN. The rifle and day optic sight as per cleaning instructions. (See para 3-5).			
4.	●			● ACTUATE SAFETY. Weapon must be cocked, (see instructions in para 3-6).			
				a. Place safety in safe position ("S"), pull trigger. Firing pin head should not fall forward.			
				Firing pin head falls forward.	←		
				b. Place safety in the fire position ("F"), pull trigger. firing pin head should fall forward. (A click should be heard).			
				Firing pin head does not fall forward.	←		
5.	●			● BOLT OPERATION. Grasp bolt handle, lift upward and slide bolt to the rear. Operation should be smooth.			
				If operation is not smooth.	←		

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) TABLE

B=Before Operation			D=During Operation		A=After Operation
Item No.	Interval			ITEM TO BE INSPECTED Procedure	Equipment is NOT READY/AVAILABLE IF,
6.				● MAGAZINE. Push the Magazine latch to release the magazine. (See para 2-18).	If magazine does not release. ←
7.	●			● DAY OPTIC SIGHT SYSTEM. Sight through the day optic sight: inspect for visual obstruction of target image, dust, dirt, pits or moisture on optical surfaces, loose or broken optical elements.	These conditions are present and cannot be corrected through cleaning procedures. ←
8.	●			● DAY OPTIC SIGHT W/MOUNT. (See para 2-13). a. Check for damaged, loose or missing parts. b. Check to ensure that day optic sights is securely mounted to mating split rings, and reticle is vertical.	Day optic sight is loose or reticle is not vertical. ←
9.	●			● SAFETY/FUNCTION CHECK. Perform safety/function check as shown in para 3-7.	The rifle fails safety/function checks. ←

2-17 INSPECTION

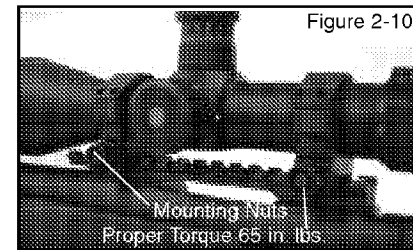
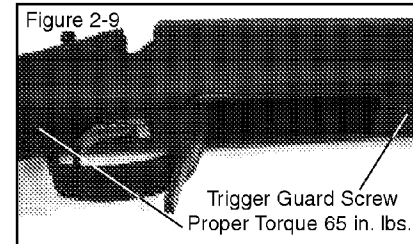
NOTE

This rifle should be inspected before and after firing by the operator.

- Check to ensure the bore and chamber are clean and free of dirt or other objects (see para 2-11 and 3-5).
- Check guard screws for proper torque of 65 in. lbs. using T-handle torque wrench (see Figure 2-9).
- Check day optic sight mounting nuts for proper torque of 65 in. lbs. (see Figure 2-10).

2-18 TO REMOVE MAGAZINE

- Push the magazine latch to release the magazine (see Figure 2-16).
- Pull the magazine down, out the bottom.



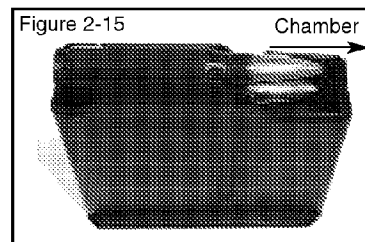
SECTION V. OPERATION UNDER USUAL CONDITIONS**WARNING**

Always keep your finger away from the trigger unless you intend to fire. Make sure the rifle is not already loaded by inspecting the magazine and chamber.

2-20 TO LOAD THE RIFLE**WARNING**

Always use authorized ammunition and check condition before loading the rifle.

- a. Point the rifle in a safe direction.
- b. Put the safety in the "S" position.
- c. Raise the bolt handle and pull bolt all the way back.
- d. Remove the magazine.
- e. Push five (5) cartridges of the authorized ammunition, one at a time, into the magazine. Keep bullets aligned toward the chamber. (See Figure 2-15).



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NOTE

To ensure proper functioning, cartridges should be set fully rearward in the magazine.

- f. Put one cartridge into the chamber.
- g. Push the bolt fully forward and push the bolt handle fully down.
- h. Insert the loaded magazine into the magazine well and push upward until the magazine latch “clicks” into place.

THE RIFLE IS NOW LOADED

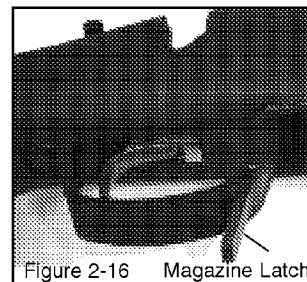
- i. Before firing the rifle, put the safety in the “F” position.

THE RIFLE IS READY TO FIRE

- j. Squeezing the trigger will fire the rifle.

2-21 TO UNLOAD THE RIFLE

- a. Point the muzzle in a safe direction.
- b. Make sure the safety is in the “S” position.
- c. Remove the magazine.
- d. Raise the bolt handle.
- e. Put one hand over the top of the ejection port.
- f. Slowly pull the bolt handle back with your other hand to remove the cartridge from the chamber.
- g. Remove the cartridge from the rifle.



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WARNING

Make sure there are no cartridges in the chamber or magazine.

2-22 THE DAY OPTIC SIGHT (LEUPOLD MARK 4)**a. FOCUSING THE RETICLE****NOTE**

Focusing the eyepiece should be done after mounting the day optic sight.

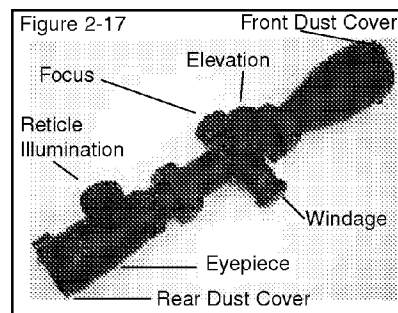
Secure the scope and firearm in a firm rest. Safely point the scope at a light colored background object. With the scope approximately four inches from your eye the reticle should appear sharp and crisp; if it does not, it is necessary to adjust the focus by means of the eyepiece.

(1) All adjustment is made with the eyepiece.

(2) Look through the scope with quick glances while focusing the reticle image. If you tend to hold things away from your self to see them clearly (farsighted) turn the eyepiece ring counterclockwise until the reticle is clear and sharp. If you hold them close to yourself to see them clearly (nearsighted) turn the eyepiece ring clockwise until the reticle is sharp and clear.

b. FOCUSING THE TARGET

To focus the target turn the focus dial on the left side of the day optic sight (see Figure 2-17). Turning toward the infinity symbol (∞) will focus farther away. Turn opposite direction to focus closer.

c. CHANGING MAGNIFICATION

To change magnification turn the magnification selector ring which is located in front of the eyepiece. The numbers on the selector ring indicate the selected magnification when aligned with the white dot on the scope housing.

WARNING

Do not loosen the screw in the power selector ring. Doing so will release the internal gas that keeps the scope fog free. Loosening the screw will also disconnect a pin that controls the internal operations, causing other problems that would require factory repairs. Do not lubricate the power selector ring; doing so is unnecessary.

(d) ADJUSTING WINDAGE AND ELEVATION

When adjusting point of impact in windage or elevation, each click of the dial corresponds to ¼-Minute of Angle change in point of impact. 1-Minute of Angle (4 clicks) corresponds to a change of 1 inch at 100 yards (29mm at 100 meters). The numbers on the dials correspond to 1-Minute of Angle. Indicators on the micrometer portion of the dial show the number of complete 360° rotations that have been made.

- (1) To adjust the point of impact left or right, turn the windage dial (see Figure 2-17). The letter "R" and arrow on the windage dial indicate which direction to turn the dial to move the point of impact right. Turn opposite direction to move point of impact left.
- (2) To adjust the point of impact up or down, turn the elevation dial (see Figure 2-17). The letter "U" and arrow on the elevation dial indicate which direction to turn the dial to move the point of impact up. Turn opposite direction to move point of impact down.

(e) ZEROING THE WINDAGE AND ELEVATION DIALS AFTER SIGHTING IN.

The day optic sight features adjustment dials that can be repositioned to align the marked zero of the dial with the position indicator without changing the adjustment setting of the scope. This allows the shooter to know the original zero of the rifle in the event that further adjustments are made in the field.

- (1) Loosen the set screws that surround the top of the top of the knob until the cylinder turns freely.
- (2) Move the cylinder dial by hand to align the zero with the white perpendicular mark at the base of the cylinder.
- (3) Tighten the set screws until the cylinder is secure.

f. USE OF THE MIL-DOT RETICLE

The Leupold® Mil Dot reticle employs a system based on the subtension of one milliradian (mil) from the center of one dot to the center of the next. This is also the distance between the crosshairs and the first dot.

The subtension of 1 mil equals 3.6 inches at 100 yards or 36 inches at 1,000 yards. In metric units, the correspondence is 1 mil equals 10 centimeters at 100 meters or 1 meter at 1,000 meters. Knowing this subtension and knowing the size of the target (or a reference object near the target) allows the distance to the target to be estimated with considerable accuracy.

Note

When using the Mil-Dot capabilities of the Mil-Dot reticle, the maximum magnification must be used.

RANGE ESTIMATING WITH THE MIL-DOT RETICLE

To use the Mil Dot reticle,, you must know the actual size of the target.

- (1) View the target through the scope
- (2) Place the edge of one post against one edge (top, bottom, or either side) of the target so that the crosshair extends along either its width or height.
- (3) Using the dots, measure along the crosshair to the opposite edge of the target.

If the center of the crosshair is against one edge of the target and the opposite edge of the target is positioned behind the center of the second dot, the target measures 2 mils. If it is exactly between the second and third dot, it measures 2.5 mils, etc. The more specific you are in your estimation of the size of the target in mils (2.75 mils, etc.), the more accurate your results will be. This is especially important in estimating range of a small target or in estimating the range of a target at a great distance. (i.e. beyond 500 yards).

Once the measurement of the target has been determined in mils, the range can be estimated. This can be done in two ways - either by consulting the charts in this manual or by using the following formula:

$(\text{Height of Target in Yards} \times 1,000) \div \text{Height of Target in Mils} = \text{Range of the Target in Yards}$

This formula will also give results in metric terms if meters instead of yards are used in the equation.

This document includes range estimating tables (see Tables 1 to 6). Four of these tables are calculated to the nearest 0.5 mil and two (a special sub-yard and a special sub-meter target size tables) are calculated to the nearest 0.25 mil. To use these tables, locate the actual size of the target along the top of the table and the apparent size of the target, as measured in mils, along the side of the table. Follow both until they converge. This is the estimated distance to the target.

USING THE DATA OBTAINED WITH THE MIL DOT RETICLE

Once you have estimated the distance to the target with the Mil Dot reticle, there are two primary methods of using the information. Both require that you know the specific bullet drop of the ammunition you are using.

DIALING THE CORRECTION INTO THE SCOPE

The most effective way to use the estimated distance is to dial the necessary correction into the scope using the elevation adjustment. (if your scope features a bullet drop compensation dial, simply dial the correction directly according to the distance marked on the elevation dial.)

- (1) Calculate the "drop to adjustment increment" ratio to your scope. To do this, use the equation:

$$\text{Distance to the target in yards} \div 100 = \text{Inch value of each minute of angle}$$

- (2) Determine the correction necessary for the target using:

$$\begin{aligned} &\text{Known bullet drop for distance to target} \div \text{Inch value of each minute of angle} = \\ &\text{Correction to be dialed in minutes of angle} \end{aligned}$$

HOLDING OVER USING THE MIL DOTS

Sometimes there isn't time for correction using the scope's adjustment mechanisms. In these cases, holding over the target and using the reticle's mil dot markings as an aiming point is useful. It must be remembered that holding over is not as exact

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as dialing elevation.

For ease in calculation, assume that the distance from the center of one mil dot to the center of the next is 3.6 inches at 100 yards.

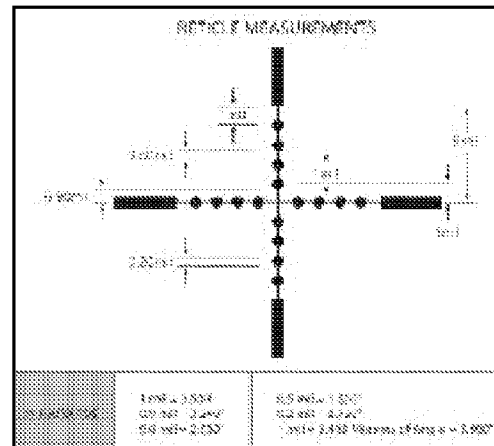
- (1) Calculate the holdover value of each dot for the distance to the target:

$$\begin{aligned} & (\text{Distance to the target in yards} \div 100) \times 3.6 = \\ & \text{Inch value from the center of one mil dot to the center of the next at that distance} \end{aligned}$$

- (2) Calculate the correct holdover:

$$\begin{aligned} & \text{Known bullet drop at target distance} \div \\ & \text{Inch value from the center of the one mil dot to the center of the} \\ & \text{next at that distance} = \\ & \text{Correct holdover for target distance} \end{aligned}$$

For quick reference on the value of mils at different distances, consult Tables 7 and 8.



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PROCES	5	12	6	18	26	32	34	28	32
PROCES	0.286	0.333	0.444	0.240	0.350	0.333	0.667	0.778	0.889
PROCES	200	333	444	240	350	333	667	778	889
PROCES	200	267	333	333	444	444	555	555	777
PROCES	767	777	777	888	888	888	888	888	888
PROCES	143	193	258	280	337	343	393	564	728
PROCES	0.75	0.67	0.22	0.66	0.24	0.68	1.33	0.66	0.66

ACTUAL 500																															
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	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969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100

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44499	44	54	54	34	144	144	144	544	44

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Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Whistler (1973). The total chlorophyll content was determined by the method of Arar and Cook (1980). The carotenoid content was determined by the method of Lichtenthaler and Whistler (1973). The total phenolic content was determined by the method of Singleton and Rossi (1965). The total flavonoid content was determined by the method of Singleton and Rossi (1965). The total protein content was determined by the method of Lowry et al. (1951). The total lipid content was determined by the method of Folch et al. (1957). The total carbohydrate content was determined by the method of Dubois and Gilles (1950). The total nucleic acid content was determined by the method of Burton (1956). The total ash content was determined by the method of AOAC (1990). The total moisture content was determined by the method of AOAC (1990). The total dry matter content was determined by the method of AOAC (1990). The total organic acid content was determined by the method of AOAC (1990). The total alkaloid content was determined by the method of AOAC (1990). The total saponin content was determined by the method of AOAC (1990). The total tannin content was determined by the method of AOAC (1990). The total terpenoid content was determined by the method of AOAC (1990). The total steroid content was determined by the method of AOAC (1990). The total glycoside content was determined by the method of AOAC (1990). The total alkaloid content was determined by the method of AOAC (1990). The total saponin content was determined by the method of AOAC (1990). The total tannin content was determined by the method of AOAC (1990). The total terpenoid content was determined by the method of AOAC (1990). The total steroid content was determined by the method of AOAC (1990). The total glycoside content was determined by the method of AOAC (1990).

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g. USE OF THE ILLUMINATED RETICLE

All Leupold Illuminated Reticle scopes may be used in either the standard or the illuminated state. When not illuminated, the reticle performs the same as the reticle in a standard Leupold scope. Illuminating the reticle allows a better distinction to be made in poorly lighted conditions between the target and the precise position of the aiming point.

To illuminate the reticle:

1. Grasp the illumination dial located at the top of the eyepiece shell. (See figure 2-17)
2. Turn the dial clockwise from the OFF position to the first number indicated on the dial.
3. View the target through the scope to determine if the reticle is bright enough to stand out clearly against the target.
4. If more illumination is required, continue turning the dial clockwise until the reticle is clearly visible against the target.

To preserve the life of the battery, always remember to turn the illumination dial to the OFF position when the scope is not in use. For prolonged storage, remove the battery.

If the reticle fails to illuminate or appears dim even on the highest illumination setting, it is necessary to change the battery.

WARNING

Always check to ensure that the firearm is unloaded before changing the battery in the scope.

h. CHANGING THE BATTERY

All Leupold Illuminated Reticle scopes use a 3-volt lithium photo battery.

2-24

To change the battery:

- 1. Remove the battery cover by grasping its edge (located around the top of the illumination dial) and twisting the cover counterclockwise while holding the sides of the illumination dial to keep the entire dial from turning.
- 2. Remove the old battery from its position in the center of the dial.

This can be done two ways:

- a. Grasp the edges of the battery between the thumb and forefinger and lift it free of the dial.
 - OR
 - b. Turn the scope so that the illumination dial faces downward and gently tap the eyepiece against the edge of your palm.
- 3. Insert the new battery, positive (+) side up.
 - 4. Replace the battery cover on the illumination dial and turn it clockwise until it is secure while holding the sides of the illumination dial to keep the entire dial from turning.

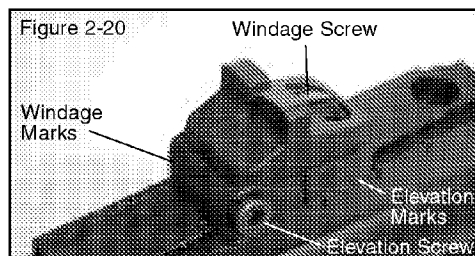
Replacement 3-volt lithium batteries:

Duracell®DL1/3N	Varta®CR1/3N
Eveready®2L76	Sanyo®CR1/3N
Kodak®K58L		

There may be other lithium batteries that are acceptable with your Leupold Illuminated Reticle scope. Check with your local retailer for other options.

2-23 ADJUSTMENTS OF METALLIC (IRON) SIGHTS

- (a) The metallic (iron) sights can be adjusted for both windage (direction) and elevation in order to match point-of-impact to point-of-aim at a set range. All adjustments are made on the rear sight. See Figure 2-20.
- (b) To adjust for windage (direction) use a small flat screwdriver to slightly loosen the windage screw on the top of the rear sight. To move the point-of-impact to the left, move the rear sight to the left. To move the point-of-impact to the right, move the rear sight to the right. Each mark on the back of the rear sight corresponds to an approximate windage change of 6 inches at 100 yards (18 cm at 100 meters). Retighten the windage screw before shooting again. Avoid over tightening.
- (c) To adjust for elevation use a 5/64" hex key to loosen the elevation screw on the right side of the rear sight. To move the point of impact up, move the rear sight up. To move the point of impact to the down, move the rear sight down. Each mark on the right side of the rear sight corresponds to an approximate elevation change of 2 inches at 100 yards (6 cm at 100 meters). Retighten the elevation screw before shooting again. Avoid over tightening.



2-26

2-24 BIPOD (OPTIONAL ACCESSORY)

a. BIPOD ATTACHMENT

WARNING

Always keep the rifle pointed in a safe direction, down range or toward the impact area. Check the chamber and magazine to make sure there are no cartridges in the weapon.

NOTE

The bipod is always attached with the legs pointed toward the muzzle of the rifle.

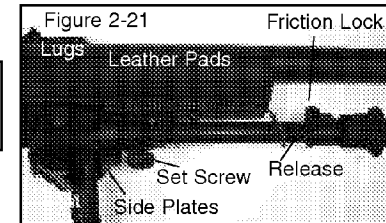
- (1) While applying pressure to side plates, turn set screw counterclockwise until side plates protrude through the bipod base. (See Figure 2-21).
- (2) Squeeze set screw end of side plates together and place legs of side plates into hole in bipod mounting stud.
- (3) Position bipod mounting base against stock and turn set screw clockwise finger tight.
- (4) Using appropriate tool (slotted screw driver, 5/32" key, socket head screw, coin, etc.), turn set screw clockwise 1/4 turn.
- (5) Remove in reverse order.

NOTE

Set screw should always be kept tight. Check occasionally.

b. BIPOD LEG ADJUSTMENT

- (1) Grasp bipod leg pull downward away from the barrel.
- (2) Turn friction lock counterclockwise (see Figure 2-21). Grasp foot of bipod and pull out.
- (3) Turn friction lock clockwise until tight.



- (4) Repeat for other bipod leg.
- (5) Retract legs by turning friction lock counterclockwise to loosen.
- (6) Push in on release. Leg will retract. (See Figure 2-21).
- (7) Fold leg up.
- (8) Repeat for other bipod leg.

c. BIPOD MAINTENANCE

Wipe steel parts occasionally with an oily rag. Do not use oil on leather pads on bipod base (see Figure 2-21).

SECTION VI. OPERATION UNDER UNUSUAL CONDITIONS

CAUTION

If extensive corrosion is found and cleaning does not solve the problem, turn the complete weapon system in to the proper maintenance/supply channel for return to Remington, (See Chapter 3, Section IV, Preparation For Shipment.)

NOTE

Unusual conditions are defined as any condition requiring special maintenance of the rifle.

Perform the maintenance outlined for the climate that most applies to your operational area. Refer to paragraph 3-1 for lubrication instructions.

2-24 EXTREME COLD

- a. When operating rifle in extremely cold climates, clean and lubricate the rifle inside at room temperature, if possible.

CAUTION

When operating in climates where the temperature is below -25 degrees Fahrenheit, the firing pin assembly should be stripped of all lubrication.

2-28

- b. Apply a light coat of Rem™ Oil to all functional parts.
- c. To prevent freezing, keep the rifle covered when moving from a warm to a cold area. This will allow gradual cooling.
- d. Always keep the rifle dry.
- e. Keep ammunition dry; moisture will cause malfunctions. Do not lubricate the ammunition.
- f. Always keep snow out of the bore of the barrel. If snow should get into the bore, clean the bore before firing using a patch and cleaning rod.

2-25 HOT DRY CLIMATES

Dust and sand can get into rifle and cause malfunctions and excessive wear on component contact surfaces during firing. Keep the rifle covered when possible. Use Rem™ Oil sparingly.

2-26 HEAVY RAIN AND FORDING OPERATIONS - ALL CLIMATES

- a. Perform maintenance in accordance with cleaning procedures in para 3-5 and apply a thin coat of Rem™ Oil. Do not lubricate ammunition.
- b. Always attempt to keep rifle dry.
- c. Always drain any water from the barrel prior to firing. Dry the bore with a patch and cleaning rod.

2-27 HOT WET CLIMATE

- a. Perform maintenance more frequently. Inspect hidden surfaces for corrosion. If corrosion is found, clean and lubricate with Rem™ Oil.
- b. To help prevent corrosion, remove handprints with a cloth. Dry off and then lubricate the rifle.
- c. Check ammunition and magazine frequently for corrosion. If necessary, clean ammunition with a dry cloth. Do not lubricate ammunition.

SECTION VII. EMERGENCY PROCEDURES

2-28 IMMEDIATE ACTION

- a. Immediate action is the prompt action taken by the user to correct a stoppage.

WARNING

During the following procedures keep the rifle pointed in a safe direction.

The procedure for applying immediate action should become instinctive to the user, without the user attempting to discover the cause. It is important that the user apply immediate action instinctively to correct a stoppage.

- b. When the bolt is fully forward and the handle is down and the rifle fails to fire, apply immediate action as follow:

- (1) Squeeze the trigger again.
- (2) If the rifle does not fire, retract the bolt to eject the cartridge. Slide the bolt forward to chamber another cartridge.
- (3) Squeeze the trigger again.
- (4) If the rifle still does not fire, clear the rifle and replace the ammunition.
- (5) Continue to apply immediate action. If the rifle still does not fire, clear/unload rifle.
- (6) If the rifle does not fire after the application of immediate action, a detailed inspection should be made to determine the cause of the stoppage (see Troubleshooting Procedures, para 3-3).

CHAPTER 3 MAINTENANCE INSTRUCTIONS SECTION I. LUBRICATION INSTRUCTIONS

3-1 LUBE GUIDE

NOTE

The instructions in this section are mandatory.

- a. Over-lubrication should be avoided at all times. A thin coat of appropriate lubrication is all that is needed to prevent the possibility of corrosion.
- b. When the rifle is to be stored it should be carefully cleaned and thoroughly oiled. Coat the bolt face, extractor, ejector, bore, chamber and exterior of trigger assembly with Rem™ Oil. Further lubrication is not necessary. (See Figure 3-1).
- c. When the rifle is to be reused, all lubrication must be removed from the chamber and bore. Lubricate the bolt lugs and cocking cam to prevent wear.

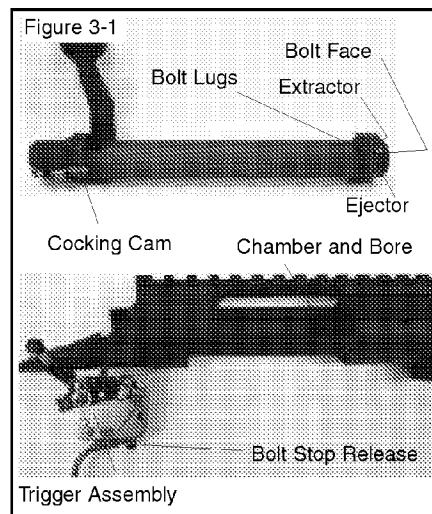
NOTE

The spare firing pin is lubricated for shipping purposes.

- d. Place a drop of Rem™ Oil under the bolt stop release. Remove all excess oil with a clean rag.
- e. Ensure spare firing pin assembly found in the deployment kit has a thin coat of Rem™ Oil at all times.

3-2. GENERAL

Perform Before and After operations PMCS if you are the assigned operator and the weapon has been stored in an arms room and not used for a period of 90 days, or you have been issued the weapon for the first time (see para 2-16).



NOTE

An inactive weapon is a weapon, whether assigned or not assigned to an individual, that is stored in an arms room for a period of 90 days. Cleaning (PMCS) of an inactive weapon will be performed every 90 days. This will ensure proper inspection intervals to safeguard against corrosion and detect worn or damaged parts which may require replacement.

SECTION II TROUBLESHOOTING PROCEDURES**3-3. TROUBLESHOOTING**

This manual cannot list all malfunctions that may occur, nor all causes and corrective actions. If a malfunction is not correctable, turn the complete weapon system in to the proper maintenance channel for return to Remington. (See Chapter 3. Section IV. Preparation For Shipment.)

WARNING

Before performing any of the troubleshooting procedures, make sure the rifle is clear/unloaded.

TROUBLESHOOTING TABLE

MALFUNCTIONS	CAUSE	CORRECTIONS
1. FAIL TO FIRE	<ul style="list-style-type: none">a. Safety in "S" position.b. Defective ammo.c. Firing pin damaged.d. Firing pin binds.e. Short firing pin protrusion.f. Firing control out of adjustment.g. Trigger out of adjustment.h. Trigger does not retract.i. Trigger binds on trigger guard.j. Firing pin does not remain in the cocked position with bolt closed.	<ul style="list-style-type: none">a. Move safety to "F" position.b. Eject cartridge.c. Change firing pin assembly.d. Change firing pin assembly.e. Change firing pin assembly.f. Turn the complete weapon system in to the proper maintenance/supply channel for return to Remington. See Chapter 3. Section IV. Preparation For Shipment.g. Same as f. above.h. Same as f. above.i. Same as f. above.j. Same as f. above.
2. BOLT BINDS	<ul style="list-style-type: none">a. Guard screw protrudes into bolt track.b. Scope base screw protrudes into bolt track.	<ul style="list-style-type: none">a. Turn the complete weapon system in to the proper maintenance/supply channel for return to the contractor.b. Same as f. above.
3. FAIL TO FEED	<ul style="list-style-type: none">a. Bolt override cartridge.b. Cartridge stems chamber.c. Magazine not fully installed.d. Weak or broken magazine spring.	<ul style="list-style-type: none">a. Seat cartridge fully rearward in magazine.b. Pull bolt fully rearward. Remove stemmed cartridge from ejection port area. Reposition cartridge fully in the magazine.c. Push magazine up into magazine well until latch clicks into place.d. Replace magazine.

TROUBLESHOOTING TABLE (c0nt)		
MALFUNCTIONS	CAUSE	CORRECTIONS
4. FAILS TO EJECT	a. Broken ejector. b. Fouled ejector plunger.	a. Same as f. on previous page. b. Inspect and clean bolt face. If malfunction continues, refer to f. on previous page.
5. FAILS TO EXTRACT	a. Broken extractor.	a. Same as f. on previous page.

SECTION III. MAINTENANCE PROCEDURES

3-4. DISASSEMBLY (FIELD STRIPPING).

CAUTION

Dry firing of the rifle is only to be done in conjunction with PMCS (para 2-16) and safety/function checks (para 3-7) and/or during training.

a. TAKEDOWN PROCEDURE: (Field Stripping)

(1) CLEAR THE WEAPON

WARNING

Check the chamber and magazine to make sure there are no cartridges in the rifle.

(2) Point the rifle in a safe direction.

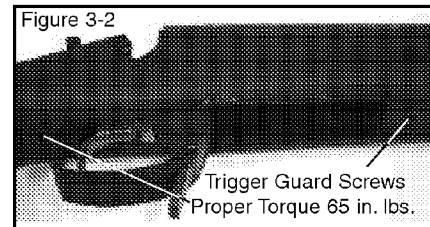
(3) Put the safety in the "S" position.

3-4

- (4) Remove the bolt assembly.

WARNING
Steps 5 and 6 should ONLY be done when absolutely necessary.

- (5) Loosen and remove front and rear trigger guard screws (see Figure 3-2).
(6) Lift stock assembly from barreled action.
(7) Reassemble in reverse order.



NOTE

Front and rear trigger guard screw must be tightened to 65 in. lbs. using T-handle torque wrench.

3-5. CLEANING AND INSPECTION:

NOTE

If faults are found during inspection that cannot be corrected, turn the complete weapon system in to the proper maintenance/supply channel for return to Remington.

- a. CLEAR THE WEAPON

Put the safety in the "S" position.

WARNING
Check the chamber and magazine to make sure there are no cartridges in the rifle.

b. TO CLEAN THE WEAPON

CAUTION

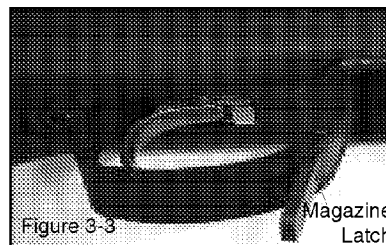
Under no circumstances should carbon cleaning compounds be used on any components of the system.

- (1) Use the cleaning kit provided (for field cleaning).

NOTE

It is recommended to use a one piece coated brass 30 cal. cleaning rod.

- (2) Remove the bolt assembly. (See instructions in para 2-8).
- (3) Push the magazine latch to release the magazine (see Figure 3-3).
- (4) Attach the bore brush to the cleaning rod.
- (5) Apply gun cleaning solvent to the bore brush.
- (6) Push and withdraw the bore brush completely through the barrel several times.
- (7) Remove brush from rod, attach tip with patch, and push completely through the bore.
- (8) Repeat several times, using a new cleaning patch each time, until the patch comes out clean.
- (9) Wipe the inside of the magazine and receiver with a cloth dampened with gun cleaning solvent and wipe dry.
- (10) Dust and wipe external portions of the rifle with a clean cloth (for dust and dirt).
- (11) Lubricate as per lubrication, para 3-1.



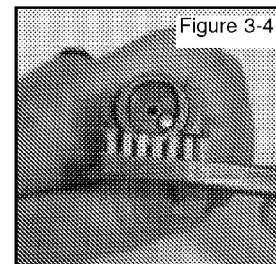
3-6

b. TO TOUCH UP EXTERIOR FINISH

- (1) Use solid film lubricant for minor touch of missing exterior finish.
- (2) Apply solid film lubricant in accordance with instructions provided on manufacturer's container.

c. THE BOLT ASSEMBLY

Vigorously clean the bolt face with a small cleaning brush dampened with gun cleaning solvent (see Figure 3-4). Wipe bolt assembly clean and dry.



d. TRIGGER ASSEMBLY

- (1) Remove barrel action from the stock (see para 3-4).

CAUTION
Do not remove the trigger assembly from the barrel action.

- (2) Push the safety to the fire position.
- (3) Pull the trigger to the rear.
- (4) Purge dirt and moisture from the trigger assembly with Rem™ Oil or alcohol.
- (5) Lubricate trigger assembly as needed.
- (6) Place a drop or two of the appropriate lubrication to each side of the sear with the trigger pulled to the rear. Dry fire to work lubrication into the trigger assembly.

- (7) Place a drop of lubrication under the bolt stop release.
- (8) Reassemble the barrel action to the stock (see para 3-4).

e. CLEAN THE DAY OPTIC SIGHT

- (1) Remove large particles from exposed lens surfaces by first blowing on the surface. Then brush with lens cleaning brush.
- (2) Apply lens cleaning fluid or isopropyl alcohol to non-silicone lens cleaning tissue. Wipe lens in a circular motion starting in the center of the lens and working towards the outside.

NOTE

If fingerprints are observed, remove immediately using the above procedures.

PMCS should be performed before and after firing.

3-6 REMOVAL AND REPLACEMENT OF FIRING PIN ASSEMBLY

a. FIRING PIN ASSEMBLY REMOVAL

- (1) Remove bolt assembly as per instructions in para 2-8.

NOTE

Be sure bolt is in the cocked position.

- (2) Place the bolt in vertical position with bolt handle to the top. (See Figure 3-5).

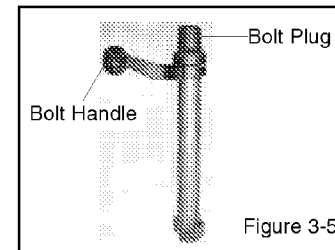
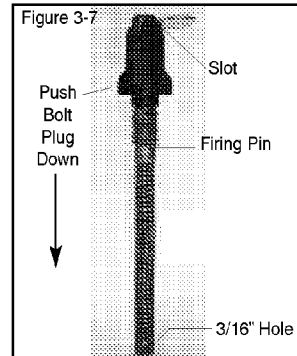
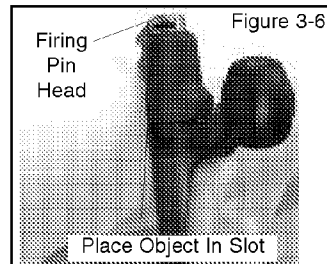


Figure 3-5

3-8

- (3) Place sear notch, on firing pin head, against a hard surface and pull downward on bolt handle, compressing the spring. (See Figure 3-6).
- (4) Firing pin head will be pushed above bolt plug. While raised, a slot in the firing pin head can be observed.
- (5) Place an object into the slot (identification tag, coin, etc.) and slowly allow firing pin to rest on object.
- (6) Screw firing pin assembly out of the bolt assembly by turning counter clockwise.
- (7) See Figure 3-7. To remove object from slot, place firing pin into 3/16" hole drilled through a block of wood (fabricated item, see Appendix C).



WARNING
Bolt plug will be under spring tension. Release slowly to prevent possible injury to personnel.

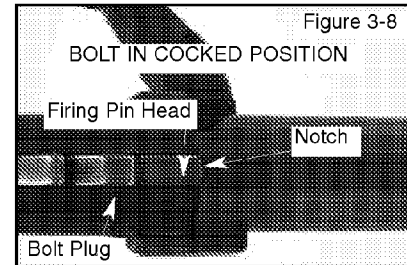
- (8) Grasp bolt plug and press downward compressing spring (see Figure 3-7). Object will fall from slot.

b. FIRING PIN ASSEMBLY REPLACEMENT

- (1) See Figure 3-7. Place firing pin assembly in vertical position with bolt plug on top.
- (2) Insert firing pin into 3/16" hole drilled through a block of wood (fabricated item, see Appendix C).

WARNING
Bolt plug will be under spring tension. Release slowly to prevent possible injury to personnel.

- (3) Grasp bolt plug and press downward compressing spring (see Figure 3-7).
- (4) Firing pin head will be pushed above bolt plug. While raised, a slot in firing pin head can be observed.
- (5) Place an object into slot in firing pin head. (Identification tag, coin, etc.) and slowly allow firing pin to rest on object.
- (6) Screw firing pin assembly into bolt assembly turning clockwise.
- (7) Remove object from slot by placing sear notch against a hard surface and pulling downward on the bolt handle.



NOTE

Bolt must be in the cocked position.

- (8) Turn bolt plug until firing pin head goes into small notch on rear rim of the bolt. The bolt is now cocked. (See Figure 3-8).

3-7 SAFETY/FUNCTION CHECK

WARNING

Before performing the safety/function check, make sure the rifle is clear/unloaded.

- a. If the below listed safety/function checks perform as indicated, rifle is mission ready. If the checks do not perform as indicated, turn the complete weapon system in to the proper maintenance/supply channel for return to the Remington. (See Chapter 3. Section IV. Preparation For Shipment).
- b. With the bolt closed and the firing pin in the most forward position, safety will not go to the safe position.
- c. Pull up on the bolt handle to cock the rifle. Pull bolt to the rear.
- d. Close the bolt.

3-10

- e. Put the safety in the safe position.
- f. Pull the trigger. Firing pin head will not move forward.
- g. Put the safety in the fire position.
- h. Pull the trigger. Firing pin head will move forward. A click should be heard.

3-8. STORAGE

- a. When the rifle is to be stored in the system case, ensure the chamber and magazine are free of ammunition and the rifle is cleaned and lubricated as per instructions (see para 2-7 and 3-1)
- b. Ensure there is no live ammunition in the area.
- c. The bolt will be in the closed position.
- d. Pull the trigger to release spring tension on the firing pin spring.

NOTE

The preferred method of storage is in a vertical position with the barrel down.

SECTION IV. TURN-IN PROCEDURES FOR REPAIR OF MODEL 700P EXPORT

3.9 PREPARATION FOR SHIPMENT

WARNING

Under no circumstances should the weapon be shipped while it still contains live ammunition, either in the shipping box or in the weapon itself.

- a. Ensure that no ammunition is present in the weapon by following the procedures for clearing the weapon found in para 2-7.

3-11

REPAIR SERVICES

1. To locate the Remington Authorized Repair Center nearest you visit our web sight at www.remington.com and use our Repair Service Locator. If you need additional on-line assistance, e-mail us at info@remington.com to obtain a listing of Authorized Repair Centers. Contact the Authorized Repair Center of your choice for evaluation of your firearm and/or additional shipping instructions.
2. If your Remington Authorized Repair Center cannot provide the service or repair you require and you need further assistance, please call our toll free number 1-800-243-9700. Mon-Fri., 9:00 AM - 5:00 PM Eastern time and select the option for repairs. Then if shipment of your firearm is required, please:
 - Record the serial number of your firearm before sending it to us.
 - Pack your firearm for safety and to prevent further damage in shipping and handling. Preferably, ship in a firearm box
 - Remove all accessories from the firearm to prevent loss or damage.
 - Enclose a letter with the firearm detailing the model name or number of your firearm and serial number along with a full description of the problem. Be sure to include your full name and address (P.O. Box and street address), including zip code, daytime telephone number and e-mail address.
 - Ship your firearm by either United Parcel Service (UPS) or Parcel Post (US Post Office). Remington is not responsible for damage or loss during shipment, so that you may elect to purchase insurance from your carrier.

Ship to:

Remington Arms Company, Inc.
Attn: Arms Service Division/ Repairs
14 Hoefler Ave.
Ilion, NY. 13357

WARNING!

DO NOT SEND LIVE OR SPENT SHELLS IN YOUR FIREARM OR IN THE SAME BOX, WITH THE FIREARM. THIS IS A VIOLATION OF FEDERAL LAW. IF YOU FEEL YOU MUST SEND SPENT SHELLS, PLEASE SEND THEM IN A SEPARATE PACKAGE AND INCLUDE NAME, ADDRESS (WITH ZIP CODE), TELEPHONE NUMBER, MODEL AND SERIAL NUMBER OF YOUR FIREARM.

CHAPTER 4

AMMUNITION

4-1. AUTHORIZED AMMUNITION.

WARNING

Use only .308 Win. or 7.62mm NATO ammunition or equivalent.

Do not fire corroded or dented cartridges, cartridges with loose bullets, or any other defective cartridges detected by visual inspection.

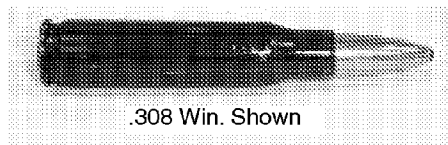


Figure 4-1

4-2. AMMUNITION WHICH FAILS TO FIRE.

Dispose of any ammunition which fails to fire according to authorized procedures.

4-3. CARE, HANDLING, AND PRESERVATION.

- a. Protect ammunition from mud, sand, and water. If the ammunition gets wet or dirty, wipe it off at once with a clean dry cloth. Wipe off light corrosion as soon as it is discovered. Turn in heavily corroded cartridges.
- b. Do not expose ammunition to the direct rays of the sun. If the powder is hot, excessive pressure may develop when the rifle is fired.
- c. Do not oil or grease ammunition. Dust and other abrasives that collect on greasy ammunition may cause damage to the operating parts of the rifle. Oiled or greased cartridges produce excessive chamber pressure.

APPENDIX A
DESCRIPTION OF TOOL USAGE

A-1. TOOLS

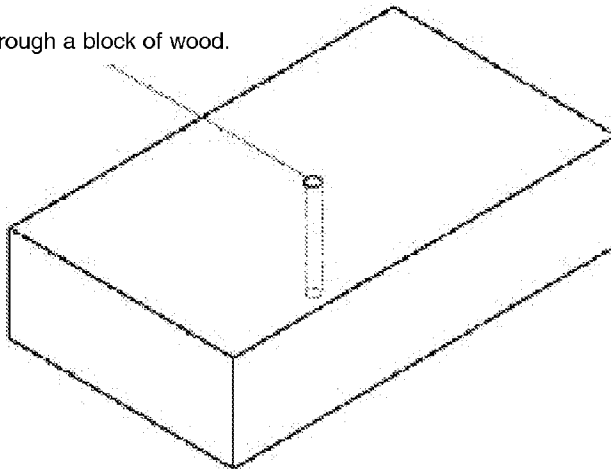
- a. T-handle Torque Wrench
(used to torque trigger guard screws and day optic sight mounting nuts to 65 in. lbs.)
- b. Socket Wrench Adjustment 3/8" Drive Hex Bit 3/16"
(used for replacement of trigger guard screws)
- c. Key, Socket Head Screw 1/16"
(used for day optic sight dials set screw)
- d. Key, Socket Head Screw 5/64"
(used for rear sight elevation screw)
- g. Key, Socket Head Screw 3/16"
(used to remove trigger guard screws)
- h. Socket, Socket Wrench 1/2"
(used to attach day optic sight)
- i. Wrench, Box and Open, 1/2"
(used to remove day optic sight)

APPENDIX C
FABRICATED ITEM

C-1 GENERAL

Used in firing pin assembly removal and replacement procedures.

Drill a 3/16" hole through a block of wood.



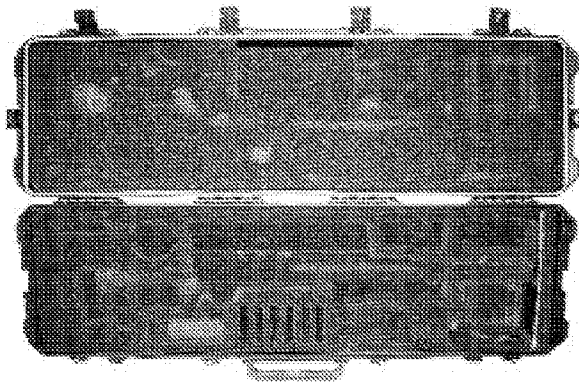
C-1

APPENDIX D

MODEL 700P EXPORT SYSTEM PARTS LIST

D-1. GENERAL

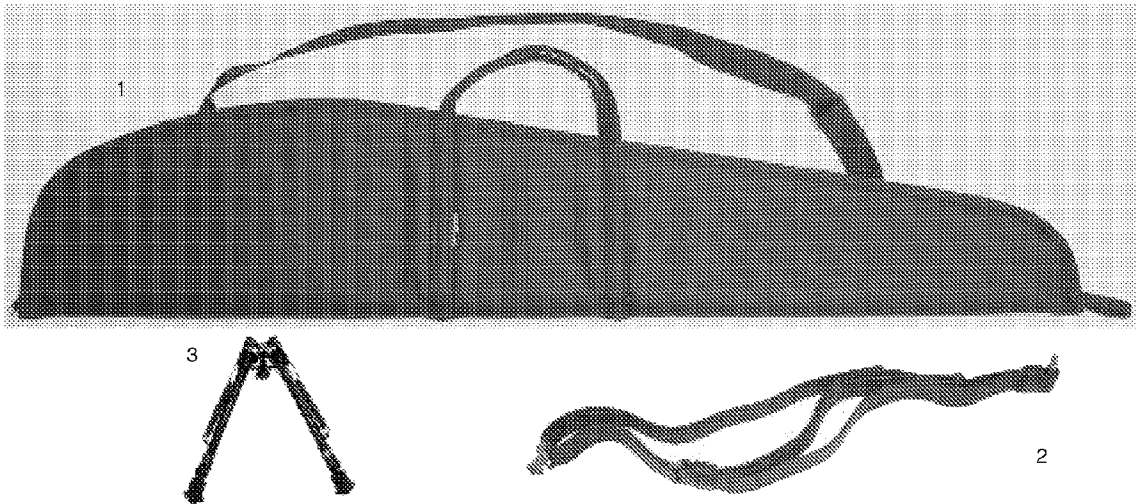
SYSTEM CASE



NO.	PART NO.	NOMENCLATURE
1	400054	System Case

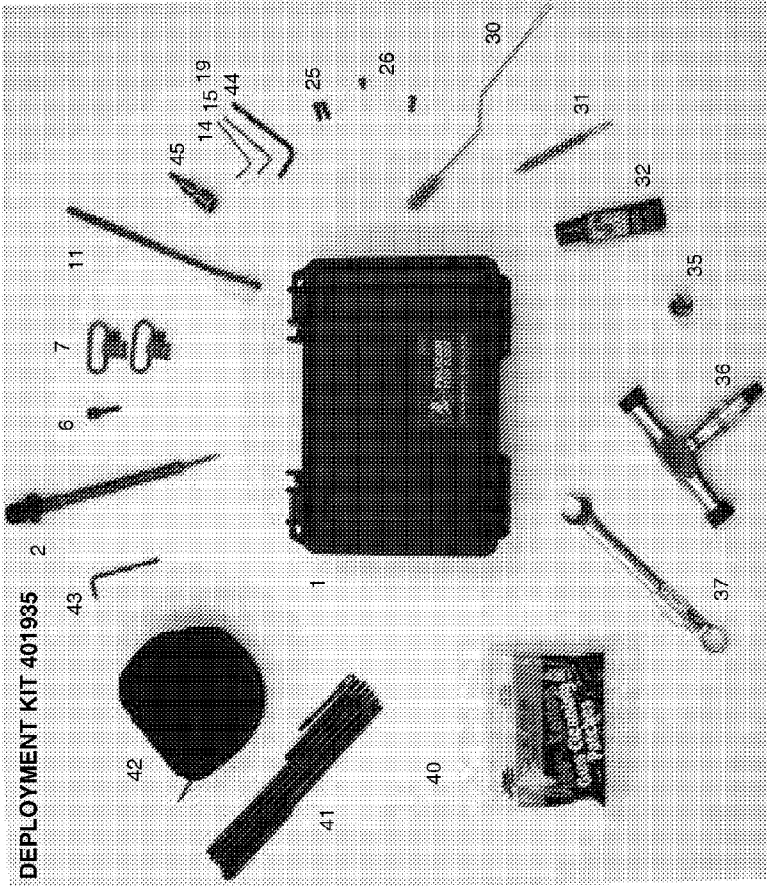
MODEL 700P EXPORT SYSTEM PARTS LIST (Cont.)

SYSTEM ACCESSORIES



NO.	PART NO.	NOMENCLATURE
1	96076	Soft Rifle Carrying Case
2	96229	Sling, Small Arms
3	96117	Bipod

MODEL 700P EXPORT SYSTEM PARTS LIST (Cont.)

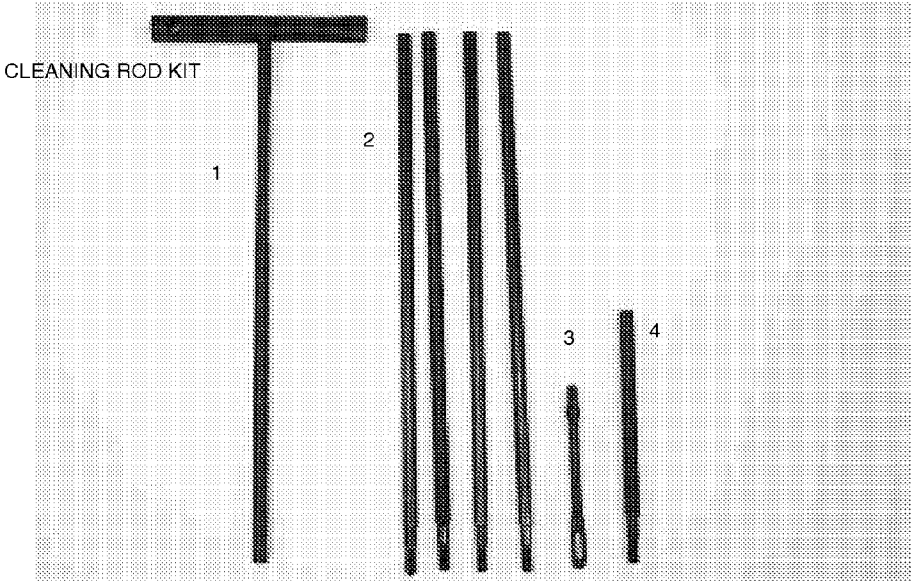


MODEL 700P EXPORT SYSTEM PARTS LIST (Cont.)

DEPLOYMENT KIT (Cont.)

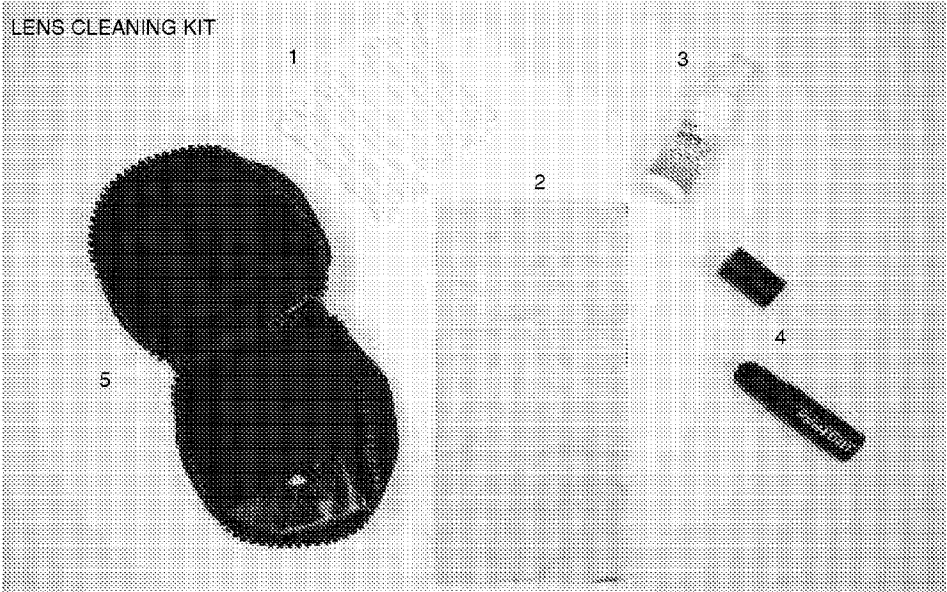
NO.	PART NO.	NOMENCLATURE
1	96097	Deployment Case
2	305634	Firing Pin Assembly
6	96022	Swivel Screw
7	96023	Swivel, Sling
11	96106	Brush, Cleaning Small
14	96051	1/16" Key Socket Head Screw
15	96109	5/64" Key Socket Head Screw
19	96112	5/32" Key Socket Head Screw
25	96083	Day Optic Sight Ring Screws
26	96037	Day Optic Sight Base Screw Front
30	16935	Brush, Chamber
31	96114	Brush Bore
32	96115	Oil Bottle
35	96058	Socket, Socket Wrench 1/2"
36	96059	T-Handle Torque Wrench
37	96060	Wrench, Box and Open 1/2"
40	96116	Patches, Cleaning Small Arms
41	96091	Cleaning Rod Kit
42	96053	Lens Cleaning Kit
43	400069	T-15 Key, Torx Head Screw
44	402243	3/16" Key, Socket Head Screw
45	402136	Socket Wrench Attachment 3/8" Drive Hex Bit 3/16"
46	402269	Trigger Guard Screw, Front
47	402270	Trigger Guard Screw, Rear

MODEL 700P EXPORT SYSTEM PARTS LIST (Cont.)



NO.	PART NO.	NOMENCLATURE
1	96092	T-Handle Section
2	96093	Cleaning Rod Section
3	96094	Patch Holder
4	96095	Adapter

MODEL 700P EXPORT SYSTEM PARTS LIST (Cont.)



NO.	PART NO.	NOMENCLATURE
1	96054	Applicator (Q-Tips)
2	96055	Cloth, Lens (Cleaning cloth)
3	96056	Bottle (for Isopropyl Alcohol)
4	96057	Brush, Artist (Cleaning Brush)
5	96041	Case, Lens Cleaning

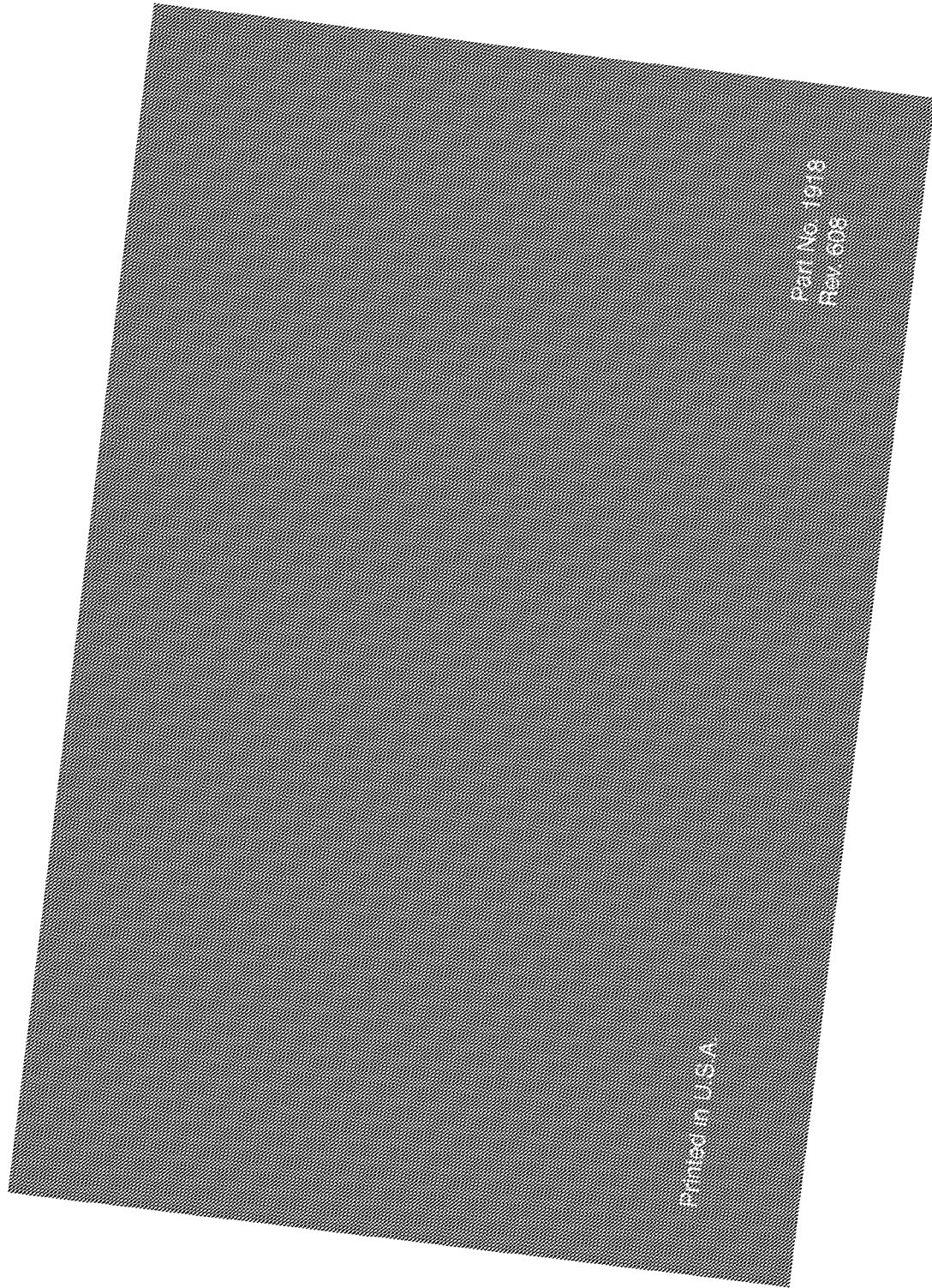
D-6

APPENDIX E
RIFLE EXPLODED VIEW



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Rev. 608

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