



OPERATOR INSTRUCTIONS

■ ITEM DESCRIPTION

This document covers the operator responsibilities and procedures for the HK High Reliability Steel 30 Round Magazine that was designed by Heckler & Koch to improve the reliability of weapons that utilize the aluminum NATO-standard M4/M16 magazine. This COTS item features a well executed design, select materials, and special anti-friction surface finish, advanced spring material, attention to production tolerances, and steel magazine housing and follower. The magazine is fully compatible for use with all M4/M4A1/M16/M16A1/M16A2/M16A4/AR15/SA80 type rifles.

This magazine is available with two different surface finishes. Standard and proprietary HK "Martime" anti-corrosion coating that resists corrosion for more than 96 hours in a salt water/spray environment. The magazines can be identified by the magazine follower. The standard magazine follower is a bright color, and the Martime magazine is black. Like the follower all parts in the Martime magazine are specially coated. The HK PN's and NSN's for the complete magazines are provided below.

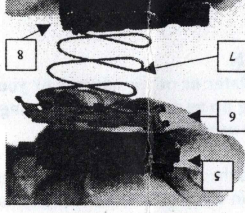
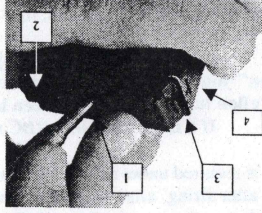
PN: 209472 NSN: 1005-99-126-9781 Finish: Standard
PN: 251770 NSN: 1005-01-520-5992 Finish: Martime

■ DISASSEMBLY

CAUTION

Parts are under considerable spring pressure. Wear safety goggles and point the base of the magazine housing in a safe direction when disassembling or assembling. Read the complete procedure before attempting to disassemble the magazine.

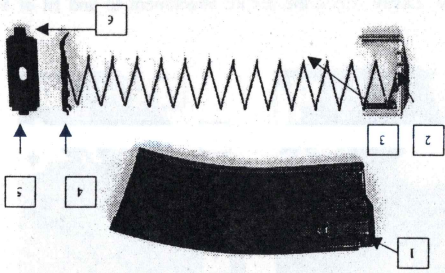
To disassemble the magazine for cleaning or inspection, push in the locking plate (1) with a cleaning rod, or cartridge. As you depress the locking plate through the window of the floor plate, pull back towards the rubber bumper (2) so the locking tab (3) will exit the locking window (4) of the housing. When the locking tab lifts up, the floor plate (5), plate locking (6), spring (7) and follower will come out under pressure from the housing (8). The floor plate is easily removed from the plate locking, which is attached to the spring and follower. Take note as to the arrangement of these parts for assembly. For cleaning purposes, it is not necessary to disassemble the follower and plate locking from the spring.



Disassembly Procedure

■ NOMENCLATURE

1. Housing
Std PN: _____
Martime PN: _____
2. Follower
Std PN: _____
Martime PN: _____
3. Spring
Std PN: _____
Martime PN: _____
4. Plate, locking
Std PN: 209007
Martime PN: _____
5. Floor plate with Rubber bumper
Std PN: 251780
Martime PN: 251775
6. Rubber bumper
PN: 251782



(Standard Surface finish pictured)

■ CLEANING

There are no special requirements, cleaners or lubricants for cleaning this magazine. The standard cleaning equipment that is used for the rifle may be used for this magazine. Refer to the appropriate Operators Manual for more detailed information.

Cleaning may be completed using dry cleaning solvent, bore cleaner, wiping materials are pipe cleaners, nylon brush. Using these guidelines will determine which applies. Cleaning materials are pipe cleaners, swabs, all purpose nylon brush and rags.

NOTE

If cleaning is completed using a solvent, then a coat of lubricant must be applied for protection against rust and the elements. Dry cleaning solvent may be used to completely remove lubricants. For example, when moving to extreme cold weather operations, dry cleaning solvent may be used to remove traces of CLP before applying LAW.

The following lubricants can be used on this magazine CLP, LSA or LAW. Always shake CLP before use.

CLP does three things at once:

- (1) It contains solvents to dissolve firing residue and carbon.
- (2) It lays down a layer of Teflon as it dries to provide lubrication.
- (3) It prevents rust from forming.

Use CLP as follows:

- (1) Always shake bottle well before use.
- (2) Place a few drops on a swab or rag.

- (3) Clean the magazine with these swabs and rags until they come out clean.
- (4) Take a swab or rag and apply a fresh, light coat.

CAUTION

Don't "dry clean" your magazines. Do not use hot water or other solvents or you will wash away the Teflon lubricant that has been building up as a result of your using CLP. If CLP is not used, RBC may be used to remove carbon.

General Cleaning is required under normal conditions and the following procedures apply:

1. Always clean after firing, after magazine is wet or in adverse weather conditions. Remove areas of powder fouling, debris and grit, corrosion and dirt.
2. If magazine is assembled, clean carbon off of follower and feed lips with the all purpose nylon brush or swab and apply a light coat of lubrication with a clean swab.
3. If the magazine has been disassembled, then all parts should be thoroughly cleaned and lubricated before assembly.

NOTE

Do not use metal bristle brushes (brass or steel) to clean the surfaces of the magazine housing or damage to the protective finish (steel) not covered by warranty may occur.

NOTE

Do not mix lubricants on the same magazine. The magazine must be thoroughly cleaned during the change from one lubricant to another. Dry cleaning solvent (SD) is recommended for cleaning during the change from one lubricant to another.

LUBE GUIDE

Under all but the coldest Arctic conditions, CLP is the lubricant to use on your magazine. Between +10 and -10 degrees F either CLP or LAW may be used. Below -10 degrees use LAW.

INSPECTION

A visual inspection is recommended each and every time you clean the magazine, the magazine is disassembled, or a problem exists that could be magazine related. The following are guidelines that can help in identifying and solving magazine related problems. Many weapon system problems are very often related to incorrect operator use or maintenance, faulty ammunition and/or problems in the weapon. These areas should be checked for problems at the same time the magazine is inspected. If the same problem exists with more than one magazine, then more than likely it is a rifle, operator or ammunition problem. When problems do occur, mark/identify the suspect magazine with a tag or paint/grease pen and use the following as a guideline.

Magazine Assembly:

Check for proper assembly. Inspect overall function of follower (free movement), locking tabs, dents, cracks, etc.

Housing:

Inspect feed lips for dents and proper spacing, sides for dents, magazine catch area for worn surfaces or dents, cracks, etc.

Follower:
Inspect for free movement inside of housing, dents, cracks and deformities.

Spring:
Inspect for bends, cracks, weak tension.

Plate, locking:

Inspect for worn or broken tabs. Should retain floor plate and stay securely attached to the spring.

Floor plate:

Inspect for bends, cracks and correct fit of the locking tabs into the locking recess of housing.

Rubber bumper:

Insure bumper retains floor plate into housing when assembled and there no signs of extreme wear.

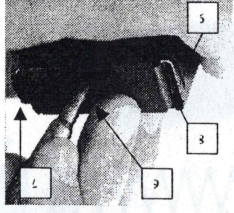
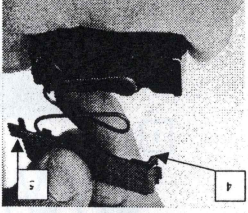
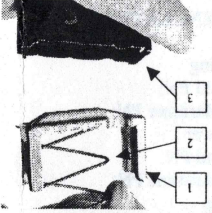
If any problems are identified, notify the Unit Armorer and repair or replace as necessary.

ASSEMBLY

CAUTION

Parts are under considerable spring pressure. Wear safety goggles and point the base of the magazine housing in a safe direction when disassembling or assembling.
Read the complete procedure before attempting to disassemble the magazine.

To assemble the magazine use the reverse sequence used for disassembly. If magazine was cleaned, ensure that it is properly lubricated prior to assembly. Attach the follower (1) and locking plate to the spring (2) and slide follower into housing (3) (it will only assemble in one direction, do not force it). Push the locking plate (4) down into the housing enough so that you can place the floor plate tab into the recess (5), (using the side with the rubber bumper first). Let go of the locking plate and insert a cleaning rod into the window of the floor plate (6) and depress the locking tab (8) so the locking tab (9) in the front of the magazine. Once the rubber bumper (7) is assembled, make sure the locking plate is seated flush against the floor plate. Check the function of the magazine by tapping it on your hand. Also check the function of the follower, for free movement by depressing it with the cleaning rod. Lastly check the secure attachment to and fit of the magazine in the rifle.



ASSEMBLY PROCEDURE

■ TROUBLE SHOOTING

Problems that could exist between the rifle and magazine, areas of inspection and remedies:

Magazine does not stay in rifle, or falls out when firing:

Check magazine catch on rifle and insure it is screwed in to the magazine button and adjusted properly and check for a worn or damaged parts. (See applicable Operator Manual). Inspect magazine catch area and check for burrs and excessive wear. Turn into Unit Armorer for replacement or repair. (Note: On this item the engagement notch for the magazine catch IS NOT open to prevent the intrusion of sand and dust. This improves reliability in harsh environments).

Bolt will not lock to the rear after last round is fired:

Check bolt catch on rifle for worn or damaged part. Check follower at the rear contact area, replace if defective. Check magazine spring tension and replace if weak. (If magazine is used and filled with 30 rounds of ammunition for 6 months or more, it is recommended that the spring be replaced.)

Magazine will not hold 30 rounds of ammunition:

Check that the magazine is properly assembled and there is no debris inside of magazine. Check for dents on magazine housing. Turn into Unit Armorer for repair/replacement.

Failure to properly feed ammunition into the chamber (failure to feed, double feed):

Inspect rifle as per Operators Manual. Rifle should be clean, properly lubricated; bolt rings are adjusted and serviceable. If problem only exists with one magazine, inspect the feed lips for bends, cracks or incorrect spacing. Check spring tension, check for free movement of follower in housing or dings in sides of housing or more than 30 rounds of ammunition in magazine. Check for dirty and/or corroded ammunition. Turn into Unit Armorer for repair.

Floor plate pops off while shooting or if magazine is dropped:

Check for proper assembly. Make sure floor plate is not bent and locking plate locks in place. Insure rubber bumper is not worn or deformed. Replace if identified.

Maritime surface coating is worn:

The Maritime coating is a 3-part finish. In the event the top painted finish is scratched or worn the material coating will continue to protect the magazine against corrosion.

Filled magazine cannot be inserted and locked in place in the rifle with the bolt forward

31 rounds are present in the magazine. Remove one round.

■ PROPER LOADING PROCEDURES

Single rounds:

Magazines may be loaded with one round at a time by inserting the cartridge case in while depressing the follower and seating the case in until the projectile clears the front of the magazine. Continue this each time until 30 rounds are inserted. (Do not attempt to load more than 30 rounds) During and when finished

Filling the magazine gently tap the back of the magazine against the palm of your hand to ensure the rounds are seated properly.

10-round stripper clip:

The magazine may be loaded quickly using the ten-round stripper clips and the magazine filler that is provided with each bandoleer of ammunition. With the magazine filler in place on the magazine, place a ten round stripper clip in position. Using thumb pressure on the rear of the top cartridge, press down firmly until all ten rounds are below the feed lips of the magazine. Remove the empty stripper clip while holding the magazine filler in place. Repeat until three ten round stripper clips (30 rounds) are loaded. Remove magazine filler and retain it for future use.

Speed loader:

Heckler & Koch Defense Inc. does not warrant the use of alternate filling devices. Care should be taken when using non-approved devices in that damage may occur to the magazine that is not covered under warranty.

NOTE

Do not slam the magazine on a table or a fixed hard surface during filling or damage to the feed lips may occur. Instead apply gradual pressure to accomplish this task.

NOTE

Protect the magazines from drop-induced damage on hard surfaces (concrete, metal, etc.) during training by covering the ground with cardboard or carpet to cushion the impact. While the HK magazine is extremely durable even during rough handling protecting arguably the most important component of the weapons system is wise and strongly recommended. Many weapon stoppages begin in feed devices that are not properly cared for or that are abused unnecessarily. Dedicated training magazines for practicing combat reloads wherein the magazine is repeatedly dropped are also highly recommended.

For more information or customer service contact:

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