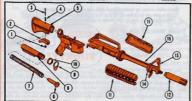
HERE ARE THE PARTS FOR



- NUT. LOCK PIN FSN 5310-917-1215 (62368)
- (3) PIN. LOCK FSN 1005-914-3229 (67361)
- (5) STOCK, BUTT, SUDING FSN 1005-914-2943 (67359)
- LEVER, RELEASE SPRING, LOCKING FSN 1005-914-3224 FSN 1005-916-9178 (62360) (62369)
- BUFFER ASSEMBLY FSN 1005-914-4578 (62382)



- SPRING, ACTION FSN 1005-914-4564 (62373)
- NUT RECEIVER EXTENSION FSN 5310-917-1153
- SIGHT ASSEMBLY (67357) FSN 1005-914-4567 HANDGUARD ASSEMBLY (62378) CAP. HANDGUARD
- EXTENSION LOWER RECEIVER FSN 1005-914-2929
 - FSN 1005-914-4572 (67381) SUPPRESSOR
- (62356) (1 PLATE, END RECEIVER FSN 1005-914-2942 (62358)
 - NOISE AND FLASH FSN 1005-914-3902 (62370)
- TUBE GAS ASSEMBLY FSN 1005-914-3504 (62368)

BARREL AND

FSN 1005-914-2922

(62346)

By Order of the Secretary of the Army:

Official: KENNETH G. WICKHAM, Major General, United States Army, The Adjutant General.

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HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D. C., I July 1969

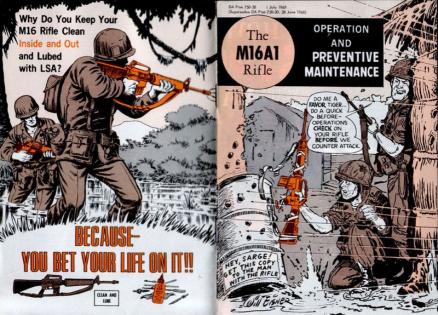
W. C. WESTMORELAND

Chief of Staff.

General, United States Army,

The proponent ogency of this pomphlet is the U. S. Army Meterial Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications) to the Commending General, U. S. Army Weapons Command. ATM: AMSWESSMM. Rock | sland. Illinois

. U.S. GOVERNMENT PRINTING OFFICE : 1949 0-354-720





spin to such out the extractor oin.

Pull back on charging bondle

and bolt corrier assembly.





If your M16A1 rifle refuses to pop off—or quits popping sudden-like you've got a stoppage that needs immediate action.

Immediate Action: Instinctively doing the right thing to clear your weapon and get it firing again, soonest!

Here's a slow motion of the procedure you'd best make second nature:

Top upward on the magazine to make sure it's seated right.



Now pull the cherging handle all the way back and see if a whole cartridge or case comes out.

Coreful, though, never
"ride" the charger—let
if go on its own.



If she won't fire, now look for the cause ... a bad round, basted firing pin or hammer spring, or whatever. Table 3-3 in



If no cartridge or case ejects, first look for a round in the chamber. If none's there, once more release the charging handle to feed a round. Next hit the forward assist and again bull the triguer.

If she still won't fire, do what your

TM says on trouble-shooting.

However, if you do find a cartridge or case in the chamber, be sure you remove is before you try to reload and

recycle your weapon.

Now, remember, get these steps down par.









Here's something you want to be real careful about, Don't—like Never!—close the upper and lower receivers while the selector lever's in the AUTO position.

Always—like Always!—point the lever to SAFE or SEMI before closing the receivers.

Here's why: If you jum the receivers closed while the selector's in the AUTO position, you'll force the automatic sear down and damage the automatic sear, and the sear pin, and will likely rough up the bottom of the balt carrier.

That's 'cause when the selector lever's in the AUTO position, the tang of the automatic sear moves to the rear. You can see how it works by opening the receiver and turning the selector to AUTO and watching the movement of the tang of the automatic sear.

movement of the tang of the automatic sear.

So-o-o... do it right ... every time. Point the arrow to SAFE. Then
the receivers will close without any interference.

TID

Speaking of magazines . . every guy has his own idea of how firm or loose he wants the holding action of the magazine catch to be. Which is A-OK as far as it goes. But remember this: The tighter the mag's held in the receiver, the more pressure it takes to release it. And this: The farther the shafe of the catch sticks through the catch hatton, the tighter the magazine's held in the receiver.



So, take a cue from experience. Adjust the catch button so's it's just about flush with the inner groove or just sticks out a tiny bir. This'll make the catch firm enough to prevent accidentally bumping the button and letting the magazine drop out—yet it won't be so tight that you can't pull the mag out for a quick re-load.



No sweat adjusting the earth the way you want it, either . . . and you're authorized to pull this deal. Just press the button on the right side of the rifle with the mose of a carridge far enough so's you can turn the carch on the left side of the weapon. You turn the handle clockwise to tighten it and counter-clockwise to loome it. Best of all, you don't have to take the weapon apart wade, this way.





Now that you've got a plastic coverall bag (FSN 1005-809-2190) to protect your M16A1 rifle against dust, sand, mud, water and such, here's how to use it in good health—yours and your weapon's.

First, make sure your rife's cleaned and lubed before you bag it. This cover's an aid to PM, but it'll never replace the cleaning and lubing you'll always have to do regularly. In fact, with a rubber band closing—not to mention rips and tears—the bag's not guaranteed watertight, so-oo-o.

Second, if you're gonna keep it bagged more than 24 hours, be sure you eyeball the weapon every day for signs of corrosion from any moisture or condensation that might form in the bag.





IN A PIPERGHT

Comes a sudden opportunity to bag an enemy, here're 2 ways you can work it:



 If absolutely necessary, you can fire right through the bag. You can operate the selecter lever and trigger easy with the bag on. But, remember this: Ejected coass will be tropped in the bag and could couse a mollunction other the first round. So get it off is easily as you can.

Natch, after "emergency" use, you'll need a new bag.



NEW CLEANING ROD

The MILE2 cleaning red is a 5-piece affair (counting the swab holder as one piece), as compared to 4 pieces for the MILE1 and MILE2 its over-all length is the same, though, Each section is shorter, that's all.

The threads on the E-3 are the same as on the E-1 and E-2, which means it takes the new bore and chamber brushes.

Don't sweat it, though. The new E-3's probably won't make the rounds till supplies of the E-1's and E-2's are gone.

BEWARE DIFFERENT THREADS

Could be that some time you might have to use other cleaning tools in a pinch. If you do, here's what to look for: Different threads.

Your M16A1's own tools—cleaning rods and brushes alike—all have real fine threads . . . 36 to the inch.

But, if you're ever in a spot where you have to use any other rod, like the MII (FSN 1005-070-7812) or any other bore brush like the one that carries FSN 7920-205-2401, or any other chamber brushes, like the MI (FSN 1005-690-1381) or the MI4 (FSN 1005-690-8401), watch this?

Their threads are coarser (32 to the inch). They won't match up with your authorized equipment. Don't try to screw 'em together. Won't work!

No sweat, though, on swabs. If you have the 30-cal type (FSN 1005-288-3565), just cut these big ones into 4 equal parts . . and go ahead with your cleaning.



doing a man-size job. So it deserves made of strell reasonable treatment-especially in cleaning and lubing its lower receiver receiver apart, these pins'll bye-n-bye arca



Of course, this all centers on removing or not removing the components of the lower receiver to do the servicing iob.

It's a fact. The 5.56-mm rifle doesn't like having its lower receiver taken apart for cleaning - and for good reason

The lower receiver's made of aluminum to keep the weapon lightweight. But the pins that hold the auto-

of the small arms field, sure, but it's trigger and the selector lever are all

So, if you keep taking the lower make the holes they go through bigger and bigger. First thing you know, the pins fall out and get lost - or the parts they hold won't line up right and your firing's 'way off.

Truth is, you are not authorized to remove the lower receiver's parts at all. You can do a good cleaning job, if you do it this-a-way -- and do it every day.

ook your artist brush IFSN 8020-244-01531 or other similar Type brush real good with bare cleaner. Then scrub all the parts like there's no tomorrow to get off all the dirt and carbon you can.

2. Tip the lower receiver sideways to drain the excess bare cleaner from the cavity and then wipe it dry



A cleaning job like this will get rid of all the carbon and dirt that might keen your weapon from shooting right. Any stuff that's left after you do your level best won't make no never-mind. Of course, if the lower receiver ever gets so fouled up that the rifle won't fire right, then you let support have a whack at it.

Now you can understand why TM 9-1005-249-12 (1968) with Ch 1, does not authorize disassembly of the

lower receiver group for cleaning by riflemen and armorers. Parts replacement and extra-tough cleaning jobs are for direct or general support only,

But, please don't miss out on that lubing job. All components of the lower receiver - as well as the bolt carrier group - must wear a coat of ISA at all times. No "buts" about it. Your rifle can't perform without it.

That's why "white-glove inspections" are too risky for this baby. There's always the danger that some guy might be tempted to give his weapon a shower or rub bath before inspection to get rid of dirt and lube.



Anybody who bathes his rifle is doing it dirt two ways: First, he's robbing it of the lube protection it needs. Second, he's liable to let water seep into the lower receiver extension. This could cause corrosion of the extension and rusting of the action spring-or it might result in a short recoil of the bolt carrier group, thereby preventing the bolt assembly from retracting far enough to strip a cartridge from the magazine.

When you consider that all this has a direct bearing on how well your M16A1's going to fire and protect your hide in a showdown, these angles make real good sense, don't they?



Combat types can't emphasize this enough: Clean the gas port in the bolt carrier group every day - and take it real easy with the lube. Dirt and powderfouling-plus an overdose of tube oil-will give you a sluggish rifle. . . . Numbah 10 Thou' in a combar situation!

So, when you get your baby stripped for cleaning, like it says in para 3-9 in TM 9-1005-249-12 (1968) with Ch 1, take an extra 5 seconds to get at the port hole down there in the front end of the gas tube. Like so

Work a worn bore brush full of bore deaner around incide the key

Make sure you get the metal and of t brush in all the way - right into the bettom of the hole where the gas tube in sected in the carrier key - and then turn it to loosen the crud. That last Ki-in in there is the most neclected part on most MILLAT AND

Then use a pipe cleaner or the like to pake the gook out of the part. Don't use wire, though, or you might scratch the tube and set us warse trouble leter on EEN 9920,797,9946 PUPE CLEANER NOW IN YOUR TM

Use another nine denner - or pir-dry it by waving it ground - to dry the take or well as you con.

4. Now doublecheck your job, Remove the balt. Then stick the carrier body into the receiver slideway and push the carrier back and forth slowly to check that the carrier key and gas tube line up OK. The corrier should move freely . . . and should go all the way without friction. If it won't an all the way without a struggle, you've got some more cleaning to do. But, if it binds,



and high pressure from the barrel. But, if you don't keep the other end clean - the gas tube area where it mates with the carrier key inside the receiver -- brother! You've get to clean this area with elbow arease to prevent stoppages. Hearl

Now, when you come to lube-preserving, stick to the dope in the lube guide pages 22 - 2 of this pomphlet.

you treat it like one.



Another couple places you won't want to forget when you're cleaning your weapon are the claw under the extractor in the bolt group and the locking lug recesses on the barrel extension in the upper receiver. If dirt and crud







collect under the extractor, the claw won't be able to snap over the rim of a cartridge case. And if gook and brass chips from cases gather in the recesses, your bolt action will be stymied. So, bear down on your bore brush in both these places.

While you have the bolt group apart - and after you clean TIP . . . 'em -- make a practice of eye-checking these parts:



IRING PIN RETAINING PIN cracked, blunted. Bent, busted, badly worn. If one or both tangs are busted, there's no sweat as long as it'll hold the firing pin in place. But, be mighty careful you don't lose it when you're doing PM. A rifle fired with this oin missing may fire once but that's all. The firing pin would

then fall out and - no-fire!

ROLL - Cracks or fractures, especially in the cam pin hole

area. This bolt has a great service record so far, but it pays to

BUGGED BY EXTRACTION PROBLEMS? TRY THIS REDUCING FORMULA!

CLEAN ... INSPECT ... REPLACE PARTS AS NEEDED

Chamber and Bolt Locking Rocess: Clean 'em after every day's firing if you can. Use your chamber deaning brush FSN 1005-999-1435 or any standard bare brush like the 30-45- or 50-cal or 7.62-mm brush. Din the brush in bore deaner . . . get all the gook out of the chamber and bolt locking recess. Then dry the areas real good. Last, apply a light coat of LSA by wiping it with a sweb democred with



Bolt Corrier: Remove it from your weapon and field-strip it at least once a week. Use bore degner with any bore brush mentioned above and attack all parts, especially behind the rings and under the lip of the extractor. Clean the carrier key with your bore brush FSN 1005-903-1296 and bore cleaner. Then dry all the parts real good and cost 'em with ISA.



Extractor and Extractor Spring: Double check 'em every day, at least, Eveball the extractor for chipped or broken edges in the area of the lip that engages the cortridge rim. Replace it if you find it damaged. Test the extractor spring by pressing on the extractor. If the spring's week, replace it.



RIMMBER - Watch your lubing. Too much lube speeds carbon buildup in the chamber and bolt locking recess. Same thing with the carrier key. A rag or swab or even a pipe cleaner dampened with LSA will do the trick here. Best bet: Follow the guide on pages 22-24.

EVERY HIT COUNTS



Here're some coaching hints for a better season with your M16A1 rifle in the Vietnam League.

LAID A BUNT LATELY

Probably not. But you could use the same idea when you're bore-brushing your weapon, Right, Choke up on the cleaning rod-hold it about 2 inches from the receiver and push it straight inch by inch in short jerks all the way through the flash suppressor. Then pull it back all the way out - again in short jerks. Never pull the brush back till after it's gone through the flash suppressor. Do it the right way and you won't hurt the rod.



Same idea goes when you're running patches through. Run it all the way through the flash suppressor before you start to pull back . . . no matter what size patches you're using-the one for the M16A1 (FSN 1005-912-4248) or

any large type that you have to cut into 4 equal squares



your unit armorer - Max Schnell, good 'ol Speedy Four-checked out your weapon? Don't know? Can't remem ber? Then it's due right now for a physical. Get with it! Maxie's the best partner you'll ever have . . . PM-wise.

shortstop trouble for you:

Any time you run into real trouble



with crud or carbon buildup when you're cleaning your rifle-especially in the bolt and locking recess area-Here're a couple ways Maxie can get your armorer to help you tackle it with P-C-111 carbon removing compound, FSN 6850-965-2332, 5-gal pail.

Some guys really spoil a play by reaching out for balls not meant for 'em. Bumped heads and lost games result.



Ditto for all parts of the upper receiver assembly. If any part gets bent-like the ears around the rear sight - or any part comes loose or busted, f'goshsakes, don't you try to fix it --- nor you, either, Maxie! Turn the weapon in to DS.

And still one more: Natch, when you're field stripping your rifle you'll be careful not to drop the carrier and key assembly or bump 'em against anything hard. The carrier key bends pretty easy-and then won't line up inside the weapon. But, if they do get bent, don't you or your armorer try to straighten 'em. That's a drive too hot to handle. Let DS fix 'em.

You're bound to have a good season if you stay on the ball with your PM.

WATCH YOUR BUTT, TOO!

While we're gabbing about water, let's hammer home the importance of keeping it out of the lower receiver, too. This may not have anything directly to do with blowing up your shooter, but i could keep it from firing - which is the next worst thing.

Right, every time you clean your M16-and every time you drain water from the bore-take an extra second to make sure the drain hole in the burn stock capscrew is open . . . and drain the butt. too.

A pipe cleaner's about the handiest thing for keeping this hole clear.

CLEAR TH

it'll foul up the working parts . . . cause corrosion and dampen your ammo.

So, remember, huh? All of this boils down to one thing. If water stays in the lower receiver, then: Your Prevention is the cure.

Here're a couple-three lube tips that'll help you and your armorer get the most out of using LSA (Lube Oil, Semi-fluid, Automotic Weapons, MIL-L-46000A) on your 5.56-MM rifle - now that it's LSA all the way for the M16A1 zap-mechine anywhere but in real cold-weather great

Yessir, LSA's here to stay. It does a better lubing job on working parts, especially in a muggy-wet climate like Vietnam's . . . it lasts longer . . . it really protects meral surfaces. Here're the stock numbers that'll fetch it for you: FSN 9150-935-6597-2-0z LSA tube: FSN 9150-889-3522-4-0z tube; FSN 9150-687-

those inside the upper and lower receivers - and very light doses in other places - like the bore and chamber inside the carrier key, inside the bolt and on the firing pin and the magazine spring - and none at all on your ammo or

fore you apply LSA. So do a real good job after every firing mission, following



LUBE GUIDE

PARTS GET

LUBED

RAPPEL BORS

START AT RECEIVER

22 23



MORE LUBE TIPS

Say. . . having trouble with how much LSA it takes for a "GENEROUS"

application?
Or what constitutes "LIGHTLY" lubricated?

Or what constitutes "LIGHTLY" lubricated?
Well, don't get excited. The terms are only general and are not intended to designate a precise amount of lubrication.

Consider it generously lubed if the part is covered with enough LSA that you can see an obvious film heavy enough you can wipe around with your fineer (you don't have to sourit her full).

Hyou have wiped on a cost of labricant with a rag or swab moistened with LSA, but it's still not so much you can really see a film on the part, call it "LIGHTLY" labed.

ZAPPER'S OWN MIG PUB

Hey, you Mi6Al sharpshooters, be sure you latch on to TM 9-1005-249-12 (1988) with Ch 1. That's right - "-12." It replaces all the operatororganizational dope in the -14 TM with all of its changes. M16A1 SHARPSHOOTERS,

DRAIN BEFORE SHOOTING



WON'T EXCUSE YOU FROM DAILY (OR OFTENER) CLEANING

THIS

CAP

LUBING

Yep, "fighting's" the word.

You only use these new plastic protective caps (FSN 5340-880-7666) when you're in action . . . not when your shooter's put up for a day or more. Else condensation'll build up and ruin the hore.

The cap'll keep out rain, dust and dirt, but it won't keep water from seeping into the bore from the chamber end when your rifle gets dunked. This water's got to be removed before you try to fire.

HERE'S WHAT YOU DO! ... AFTER YOU REMOVE THE CAP.







So get with that routine in para 2-11 to your new-12 TM

before you fire off

TRY OGUNG THESE MAGAZINE PINUPS!

From 17 to 20's fine, but 21's too many when you're loading cartridges in the magazine of your M16A1 rifle. It won't give you extra fighting power

... more likely it'll put you out of the fight-'cause that extra round will spread the lips and the ammo won't feed right.

When unloading, never flip the rounds out with another cartridge. You'll spread the lips this way, too. Instead, slide the rounds out straight ahead ... like they go into the chamber.



When you're taking your magazine apart here's as far as you can go. Any further and you might damage it.

- 1. Stick cortridge point in here to press the floor plate release.
- 2. Slide out the floor plate.
- 3. Work the spring back and forth gently as you too it outward.
- 4. Stop tugging when the follower reaches the tobs and ears and don't separate the spring from the follower

Careful ... you don't stretch or bend the spring and don't bend the tabs. Easy does it all the way.

For cleaning the disassembled mag-- Either dunk it in rifle bore cleaner and shake it good while submerged

OR - scrub the inside with a brush soaked with cleaner

OR-Use a rag soaked in bore cleaner.

Then dry it out good with a swab or rag (or even your shirtail in a pinch). After you clean the inside of the magazine, wipe the spring off and see that it's not busted or deformed. If it's OK, apply a very-very-very light coat of lube-using a rag dampened with

This mag is coated with dry lubricant. It doesn't need any lubing except for the spring.





Here's the easy way . . . gently :





3. Just wiggle the spring into the mag as for



4. Make sure the printing on the floor plate is on the outside. Slide the plate in this way, then press the spring down with your thumb. And make sure the floor plate goes under all 4 tabs, too



HERE'S AN IMPORTANT TIPE IF THE SPRING SHOULD ACCIDENTALLY GET SEPARATED FROM THE FOLLOWER, TURN THE MAGAZINE OVER TO YOUR ARMORER! DON'T TRY TO FIX IT YOURSELF, LOOKS EASY SURE BUT WITHOUT THE RIGHT TOOL YOU'D DAMAGE THE SPRING ... AND END UP WITH FEEDING TROUBLE

TSA

Protecting-your mag-

PROTECT ME. YOU BIG STRONG GUY/

Not easy, that's for sure, when you're wading streams and rice paddies or in heavy rainfall. Normally clean water itself is not barmful. Brackish water - that's another story. But the real harm comes when you don't do anything about it after your stuff gets wet.

Here're some ideas that might help:

When fording, try to keep your mags out of the water. This means holding your rifle way up there and, if you can keen the people with the spares above the water



hen at the first breather -- when you're sure Charlie's not around -- empty each monazine, wipe it dry inside and out with your shirtfull or swab and then clean both the ammo and the magazine.

You MISA1 zapmen using a plastic bag (FSN 1005-052-6942) to protect your loaded eazine, use your head. The bag's apt to collect condemation if it's wet or humid, so, check your bagged magazine daily. If you see beads of condensation inside the bag, take off the bag and dry it, the magazine and the arme thoroughly - and don't forget that little film of LSA on the magazine spring. This bag, y'know, won't excuse you from regular PM chores.

F'goshsakes, never put oil of any kind-including LSA-on the cartridges or inside your magazine! Lube ruins ammo and collects gook-could leave you belpless in a fight! This mag is coated with dry lubricant. It doesn't need

Take care of your magazines - and hang on to 'em. Sure, there're plenty of 'em in supply-world-wide-but they could get mighty scarce in your own sector. So, protect 'em from dents (aluminum can't take rough treatment) -and especially, remember to bring those "empties" back. The one you save just might save you some day.



VEHICLE RIFLE HOLDERS

No matter what size truck you nilet where the action is -- any where from a 1/4-ten M152 to a 10-ton M123 -- make sure it's equipped with a bracket to hold your (and your side-kick's) MICAT or Mis rifles.

If you jockey one of those new 1-1/4-ton MTIS's or MT25's, no sweat. They come equipped with a single rifle bracket mounted on the left side of the panel behind the driver's seat.

But, on all other trucks, you install a pair of brackets right up front. The M151 gets one to the left of the driver and the other to the right of the passenger. The others get 2 located just to the right of the driver.

Anyway, the item you want goes by the moniker: KIT, MOUNTING, RIFLE BRACKET, and answers to FSN 2590-045-9611. The bracket will handle either the M16A1 or the M14, though you may have to do a little maneuvering to get the M16 to fit the way you want it,

Here's where to look for installation and parts peop for the various vehicles: TB 5-2300-205-20 (& Feb &7) for 3/4-, 2-1/2-, 5- and 10-fen trucks.

TM 9-2220-218-20 (Apr 52) with Change 2 (16 Nov 55) for the M151 1/4-tenner

5.56-MM SUBMACHINE GUN. XM177E2:

So you've got the new XM-177E1 or IMITTE2 5.56-MM Submachin Gun -or you're expecting it on the next chopper!

So, here's the Numbah One poop on it It needs exactly the same tender loving care and cleaning as the M16A1 rifle. Give out with this TLC and you'll escape the woes some Joes had because they skimped PM on their Sweet 16's.

Yeah, this Shorty's pretty much like the M16A1-it's just shorter in the barrel and hand guards, has an adjustable butt stock and a combination noise

and flash suppressor. Most of its other parts are common to the M16A1, All cleaning and lubing requirements are the same, too - and if you don't do

'em Shorty'll act up. Even the cleaning tools are the same. You'll find all the parts common to the Shorty in POMM 9-1005-294-14.

