

ISSUE 728 JULY 2013

TB 43-P5-228, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for all Soldiers assigned to combat and combat support units and all Soldiers with unit maintenance and supply duties. All information published has been reviewed and approved by the agency responsible for the equipment, publication or policy discussed. Application of the information is optional with the user. Masculine pronouns may refer to both genders. The use of product or company names does not constitute endorsement of those products, services or companies by the U.S. Army. The use of non-Dob hyperlinks, along with their content, does not constitute endorsement by DoD or DA. Neither DoD nor DA exercises any editorial control over, and cannot vouch for, content on non-DoD websites.

COMBAT VEHICLES	SMALL ARMS 35
AVLB Bridge Panel Rivet Replacements 2-	M240 Machine Gun Stuck Round Removal 35
	M240 Machine Gun PMCS 36-37
M1-Series Tank Turret Basket Screens	M66 Ring Mount Cover NSN 37
M2/M3-Series Bradley Maintenance Tips 6-	
M2/M3-Series Bradley Ammo Chutes	M16 Rifle, M4/M4A1 Carbine Cleaning Rod 39
	CCMCK Cleaning PMCS 40-41
TACTICAL VEHICLES 10	M151 Scope NSN 41
TACTICAL VITIGILIS IN	M224/M224A1 Mortar Selector Switch 42-43
Tire Maintenance Tips, POCs 10-1	Machine Gun Mount Pin Assembly 43
HMMWV Brake System Loop Clamps 1.	Flare Satety M
Jack Stand Weight Limits 1.	Finding Small Arms/CDDN Mask Manufacture Date 45
M1070A1 HET Tractor 5th Wheel Teflon Plate	
M917A1 Dump Truck Rear Axle Brake Chambers 1	10 10 10
ROBOTICS/	Tool Corrosion Prevention 46-47
ROUTE CLEARANCE 16	SOLDIER SUPPORT 48
XM1216 SUGV Neck Assembly Alignment Marks 1	
XM1216 SUGV OCU Power Button 1	
SPARK II Landing Leg for Stowed Position Only	30-52
AVIATION 19	COMMO/ELECTRONICS 53
	BB-390B/U Battery State of Charge Check 53
Foreign Object Damage (FOD) Prevention	
Air Warrior ASEK Egress Knife Placement 2	
Apache Helmet NVG Visor Tracks 2	
Aircraft Hammer Types, Use 22-2	
HH-60M Folding Troop Seat Sequence 2	MSD V3 Videos from UTAP 55
	Motor Pool Safety Pointers 56-59
The Fobbit 27-34	HAZMAT Packaging Solution from LOGSA PSCC 60
	Connie's Post Scripts 61

You are invited to send PS your ideas for improving maintenance procedures, questions on maintenance and supply problems and questions or comments on material published in PS.

Just write to:

MSG Half-Mast

PS, the Preventive Maintenance Monthly USAMC LOGSA (AMXLS-GP)

Bldg. 3303

Arsenal, AL 35898.

Redstone Arsenal, AL 35898

Or email to:

half.mast@us.army.mil or

usarmy.redstone.logsa.mbx.psmag@mail.mil Internet address:

https://www.logsa.army.mil/psmag/pshome.cfm

By order of the Secretary of the Army:

RAYMOND T. ODIERNO

General, United States Army Chief of Staff

Official:

Joyce E. Morin

Administrative Assistant to the Secretary of the Army

1311413

PS, The Preventive Maintenance Monthly (ISSN 0475-2953) is published monthly by the Department of the Army, Redstone Arsenal, AL 35898. Periodical postage is paid at the Huntsville, AL post office and at a dditional mailing offices.

Postmaster: Send address changes to PS. The Preventive Maintenance Monthly. USAMIC LOGSA (AMXLS-GP). Bldg. 3303. Redstone

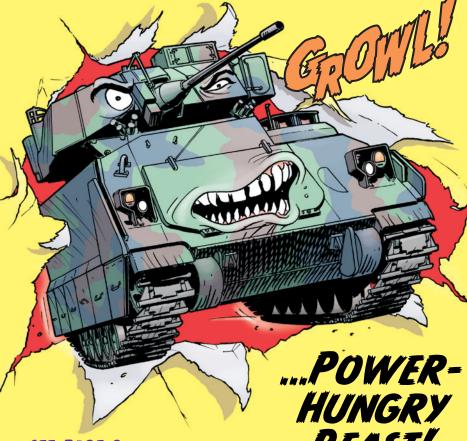


THE **PREVENTIVE MAINTENANCE MONTHLY**

TB 43-PS-728

Approved for Public Release; Distribution is Unlimited

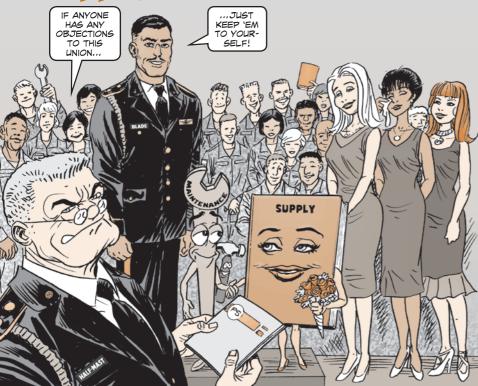
YOUR BRADLEY IS A



SEE PAGE 6....

BEAST!

You are cordially invited to the marriage of Supply and Maintenance!



 $oldsymbol{\mathcal{G}}$ upply and maintenance belong together. They work together as a team. Short of that, your unit's logistics system is broken. But it doesn't have to stay that way.

If supply and maintenance work together, you have the tools and parts you need whenever it's time to do repairs or other maintenance tasks.

If your unit needs rations, ammo, fuel, water, or anything else necessary for completing its mission, supply and maintenance must go hand-in-hand! Rations without a ready Soldier, ammo without a ready weapon, and fuel without a ready vehicle don't guite make the mission a go.

Leaders at all levels must resist the temptation to push supply and maintenance matters to the side. Without command emphasis, supply and maintenance suffer from lack of resources and motivation.

Supply alone is important, and so is maintenance. But when supply and maintenance are combined, the union can produce sweet operational results.



ISSUE 728 JULY 2013

TB 43-PS-728, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for all Soldiers assigned to combat and combat support units and all Soldiers with unit maintenance and supply duties. All information published has been reviewed and approved by the agency responsible for the equipment, publication or policy discussed. Application of the information is optional with the user. Masculine pronouns may refer to both genders. The use of product or company names does not constitute endorsement of those products, services or companies by the U.S. Army. The use of non-DoD hyperlinks, along with their content, does not constitute endorsement by DoD or DA. Neither DoD nor DA exercises any editorial control over, and cannot vouch for, content on non-DoD websites.

COMBAT VEHICLES 2	SMALL ARMS 35
AVLB Bridge Panel Rivet Replacements 2-3 M1117 ASV, M1200 Armored Knight Hydraulic Lines 4 M1-Series Tank Turret Basket Screens 5 M2/M3-Series Bradley Maintenance Tips 6-8 M2/M3-Series Bradley Ammo Chutes 9 TACTICAL VEHICLES 10 Tire Maintenance Tips, POCs 10-11 HMMWV Brake System Loop Clamps 12	M240 Machine Gun Stuck Round Removal 35 M240 Machine Gun PMCS 36-37 M66 Ring Mount Cover NSN 37 MK 19 Machine Gun Feed Slide Adjustment 38 M16 Rifle, M4/M4A1 Carbine Cleaning Rod 39 CCMCK Cleaning PMCS 40-41 M151 Scope NSN 41 M224/M224A1 Mortar Selector Switch 42-43 Machine Gun Mount Pin Assembly 43 Flare Safety 44 Finding Small Arms/CBRN Mask Manufacture Date 45
Jack Stand Weight Limits 13 M1070A1 HET Tractor 5th Wheel Teflon Plate 14 M917A1 Dump Truck Rear Axle Brake Chambers 15	TOOLS 46-47
ROBOTICS/ ROUTE CLEARANCE 16 XM1216 SUGV Neck Assembly Alignment Marks 16 XM1216 SUGV OCU Power Button 17 SPARK II Landing Leg for Stowed Position Only 18	Tool Corrosion Prevention 46-47 SOLDIER SUPPORT 48 M59A Field Range Roller Caution 48-49 Computer Mouse PM 50-52
AVIATION 19 Foreign Object Damage (FOD) Prevention 19 Air Warrior ASEK Egress Knife Placement 20 Apache Helmet NVG Visor Tracks 21 Aircraft Hammer Types, Use 22-25 HH-60M Folding Troop Seat Sequence 26 The Fobbit 27-34	COMMO/ELECTRONICS 53 BB-390B/U Battery State of Charge Check 53 LOGISTICS MANAGEMENT 54 Solving PS Download Problems 54-55 MSD V3 Videos from UTAP 55 Motor Pool Safety Pointers HAZMAT Packaging Solution from LOGSA PSCC 60
	Connie's Post Scripts 61

You are invited to send PS your ideas for improving maintenance procedures, questions on maintenance and supply problems and guestions or comments on material published in PS.

MSG Half-Mast PS, the Preventive Maintenance Monthly

USAMC LOGSA (AMXLS-GP) Blda, 3303

Redstone Arsenal, AL 35898 Or email to:

Arsenal, AL 35898

half.mast@us.army.mil or usarmy.redstone.logsa.mbx.psmag@mail.mil Internet address;

https://www.logsa.army.mil/psmag/pshome.cfm

By order of the Secretary of the Army:

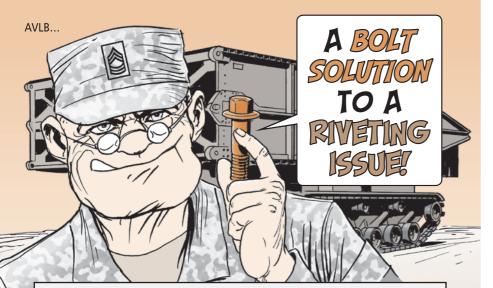
RAYMOND T. ODIERNO General, United States Army Chief of Staff

Official:

Administrative Assistant to the Secretary of the Army

1311413

PS, The Preventive Maintenance Monthly (ISSN 0475-2953) is published monthly by the Department of the Army, Redstone Arsenal, AL 35898. Periodical postage is paid at the Huntsville, AL post office and at additional mailing offices. Postmaster: Send address changes to PS. The Preventive Maintenance Monthly, USAMC LOGSA (AMXLS-GP), Bldg. 3303, Redstone



Dear Editor,

Here at Ft Leonard Wood's Engineer School, students give our seven AVLBs a lifetime of use every training cycle.

We started having issues with broken rivets on bridge panels. Because replacing rivets is a depot-level repair, Th

PE br 8 ma m do

yo

very 15 d deport repair, re replaced the panels instead. hat costs a lot of money. PM Bridging gave us ermission to replace the roken rivets with Grade bolts as a field-level laintenance fix. That saves loney and greatly reduces own time. Here are the bridge panels ou can use Grade 8 bolts on:	 Replacing rivets bolts saves time	and money	
Panel Name	NSN 5420-	Follow these rules wh	er

Panel Name	NSN 5420-	
MLC 60 panel assembly, center male	00-542-3116	
MLC 60 panel assembly, center female	00-542-3115	
MLC 60 panel ramp, male	00-542-3117	
MLC 60 panel ramp, female	00-542-3118	
MLC 70/85 panel assembly, male	01-420-1684	
MLC 70/85 panel assembly, female	01-419-9478	

replacing broken rivets with Grade 8 bolts: 7. No more than 15 bolts per section. 2. No more than two bolts in any one hinge. 3. On the bottom base frame support, no more than five bolts in a row.

Here's a list of bolts, nuts, flat washers and lock washers we purchased online at: http://www.fastenal.com

Grade 8 flat head socket cap screws

Screw Size	Part Number		
³ /4 x 10 x 3.5	1124450		
³ / ₄ x 10 x 4.5	24452		
³ / ₄ x 10 x 5	24453		
³ / ₄ x 10 x 5.5	24454		
³ / ₄ x 10 x 6	24455		
³ / ₄ x 10 x 6.5	13003-00009		
³ / ₄ x 10 x 7	24456		
³ / ₄ x 10 x 7.5	13003-00010		

Grade 8 hex cap screw

Screw Size	Part Number
³ /4 x 10 x 4.5	0137868
³ / ₄ x 10 x 7.5	0137869
³ / ₄ x 10 x 8	0137870
³ / ₄ x 10 x 6	0137871
³ / ₄ x 10 x 6.5	0137872
³ / ₄ x 10 x 7	0137873
³ / ₄ x 10 x 7.5	0137874
³ / ₄ x 10 x 8	0137875
³ / ₄ x 10 x 10.5	15384

Other hardware

ltem	Size	Part Number
Button head bolt	³ / ₄ x 10 x 3.5	13003-00008
Nut	³ /4 x 10	1136416
Lock washer	3/4	0157755
Flat washer	3/4	1133864

Refer to TM 5-5420-203-14 (Jun 91, w/Ch 2, Jun 97) for removing rivets. Torque the bolts 150-180 lb-ft.

Torque bolts to 150-180 lb-ft

James S. Carmack Ft Leonard Wood, MO

Editor's note: Thanks for the great information. This should be a big help to Soldiers in the field who have problems with broken AVLB rivets.

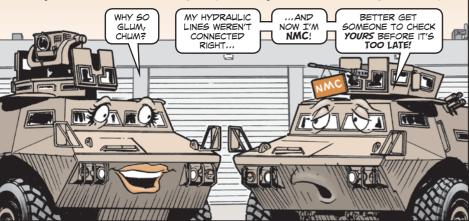




PS 728 **JUL 13** 2

M1117 ASV, M1200 Armored Knight...

QUICK CHECK FOR THE QUICK-DISCONNECT

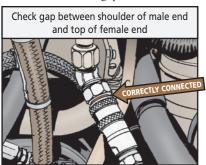


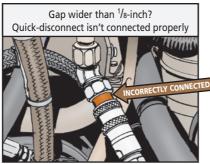
here's been a rash of blown steering gear seals on the M1117 armored security vehicle (ASV) and M1200 Armored Knight fire support vehicle (FSV) lately.

Why?

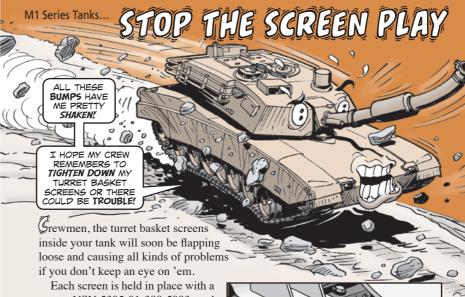
Some mechanics haven't been careful enough when connecting the hydraulic system's supply and return lines. If the quick-disconnect isn't fully seated, the hydraulic system will over-pressurize, causing a blown seal on the steering gearbox. A blown seal makes the vehicle NMC!

When connecting the supply and return line quick-disconnects, make sure there's no more than a ¹/₈-in gap between the shoulder of the male end and the top of the female end. A wider gap means the hose line isn't properly connected.





This problem is happening more and more often after annual services. So before you finish with services, eyeball the hydraulic line connection for the correct gap.

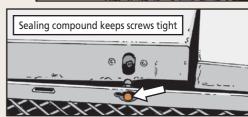


Each screen is held in place with a screw, NSN 5305-01-388-5093, and ball stud, NSN 5307-01-100-8166.

Vibration loosens the screw until it falls out or works the ball stud loose from the friction receptacle on the back of the turret wall bracket.

Either way, the top of the screen sags outward and the next time the turret is traversed, the screen snags and rips cables and connectors.

You can stop loose screws by applying a little sealant compound, NSN 8030-00-081-2339, to the threads before you tighten them. Also, put a flat washer, NSN 5310-01-389-9681, between the screw and the screen.



Vibration makes ball stud slip loose

I Frank I I

If the ball stud comes loose in its receptacle, use pliers to pinch the two tabs on the friction receptacle back together. That provides enough tension to hold the ball stud in place.

If one of the tabs breaks off, replace the friction receptacle with NSN 5340-01-100-8138.

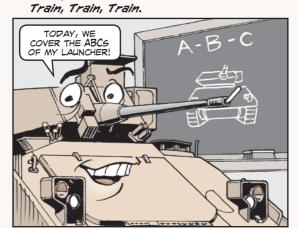
PS 728 4 JUL 13 PS 728 5 JUL 13

PM Keeps Bradley Bouncing Along. GLESS WHICH BRAPLEY LINIT PAPA PATIENTION. TO THESE TIPS FROM FT CARSON! TRRIBLE TERRIBLE TERRIBLE

Dear Editor,

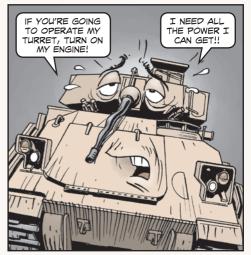
We've found while supporting the Bradleys here at Ft Carson that remembering a few simple rules can keep Bradleys bouncing down the trail instead of deadlined in the motor pool:

When Bradley units aren't deployed, they go for long periods without using the Bradley's armament. Soon Soldiers become hazy on how to operate and maintain components like the M242 gun or the TOW launcher. A bit of monthly refresher training during Sergeants' Time can keep Soldiers' skills sharp.



Turn on the Engine When You Power Up the Turret.

The Bradley is a powerhungry beast. If you run the turret without the engine on, you soon have either dead batteries or low voltage. Low voltage causes turret malfunctions and failures in the PCM1, PCM2 and turret power box. If the firmware in those components is affected, it has to be replaced at a cost of thousands of dollars. Low voltage can also make you think you have major problems with the LRUs. You waste time doing needless troubleshooting. All of that can be avoided if you just turn on the engine when you turn on the turret.



PS MORE

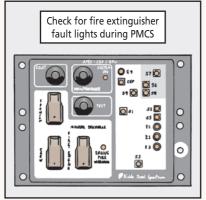
Lube Road and Idler Arms at Least Every Six Months.

the job properly, you must remove all the plugs, install grease zerts and relief valves, lube the arms and then reinstall the plugs. often, units don't go to all that trouble. As a result, the bearings for the arms wear out fast. It's a big, expensive to replace them. the job when you're supposed to do it and those bearings will last.



Pay Attention to the Automatic Fire Extinguisher System.

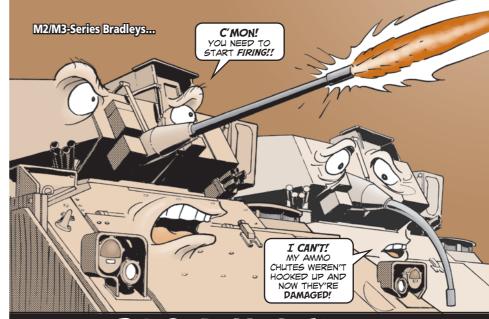
Crews often fail to check the control electronics panel during BEFORE PMCS for fire sensor faults. If a fire were to start, the system could fail, leaving the crew and the Bradley in big trouble. If a fault light comes on, it's usually either a dirty sensor or a bad fire extinguisher bottle. Find the problem and get it fixed.



Dave Whithee Mike Wood Bradley Field Support Ft Carson, CO



Editor's note: These are excellent ways to keep Bradleys bouncing along. Thanks for the suggestions!



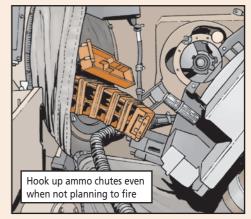
BROKEN CHUTE MEANS NO SHOOTING!

Crewmen, just because you don't plan to fire your Bradley's M242 automatic gun doesn't mean it's OK to leave the ammo chutes disconnected.

If you leave those chutes dangling, they'll catch on cables when the gun is raised or lowered. That damages the chute locking levers, rips out cables and wiring and locks up the turret. You won't be shooting anything for a long time.

There are four ammo chutes, so make sure you connect all of them.

If an ammo chute is damaged and can't be hooked up, fix it with latch assembly repair kit, NSN 2590-01-268-7915.

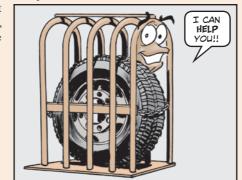


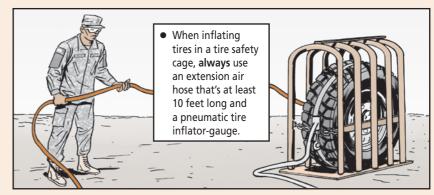


Training qualifies you to perform tire maintenance, but the training has to be done the right way. That's because tire maintenance is a high-risk task. Everyone doing it must understand and correctly perform the procedures using the proper tools and equipment. Otherwise, someone could be injured or killed.

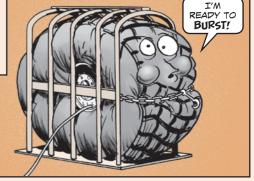
For units that choose to mount and de-mount their vehicle's tires, stay safe with these tire maintenance safety tips:

- Follow all the steps outlined in the vehicle's TMs, including cautions and warnings.
- Always use a tire safety cage when inflating a tire.
- Never lean, stand or reach over the tire during inflation. And stay out of the possible paths of exploding side ring flanges and lockrings.

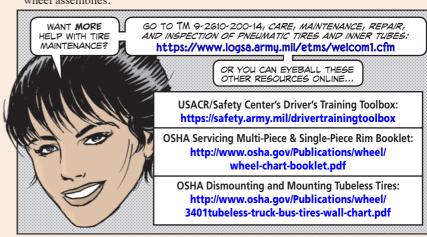




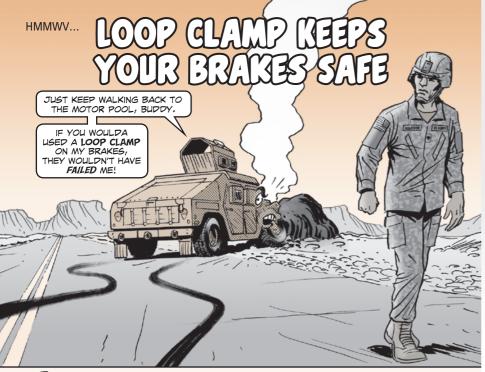
- Make sure you apply composite risk management to all tasks, including tire maintenance. Take into account mission importance, equipment characteristics and environmental conditions.
- Never put hands or fingers near the rim flanges or bead seats.
 Keep all body parts out of the safety cage during inflation.
 Don't overinflate tires, either.
 Just stick to the psi requirements listed in the TM.



Also, order complete wheel assemblies through your SSA and turn in unserviceable wheel assemblies.



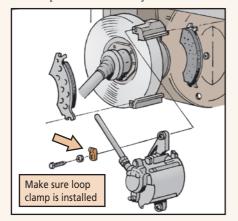
PS 728 10 JUL 13

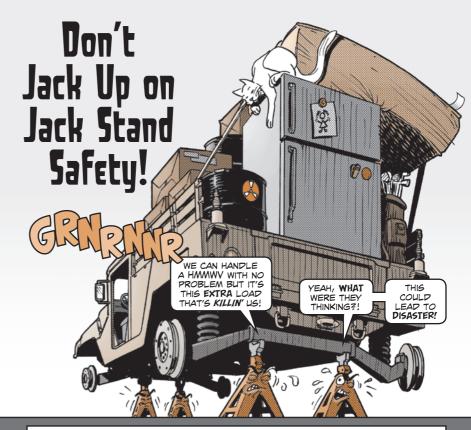


If you've just finished brake maintenance, the last thing you want happening to that HMMWV is brake failure! But it can happen to HMMWVs with serial numbers 299,999 and below if you don't give them the special attention they need.

Whenever you pull maintenance on any part of the brake system, make sure the loop clamp, NSN 5340-01-189-7640, that holds the brake line to the caliper on the right side of the vehicle is installed. If you don't, you could be super-sorry! Your HMMWV's brakes may not fail right away, but the jostling and rubbing could eventually lead to a long walk home.

You'll find the loop clamp in Chapter 7, *Brake System (Field) Maintenance*, of TM 9-2320-387-24-1 (Dec 97, w/Ch 6, Jun 09).





Dear Editor,

In my work as a safety officer at Ft Carson, I see units putting cargo, fuel and water-carrying vehicles and trailers that have heavy secondary loads on jack stands. These loads could weigh hundreds of pounds.

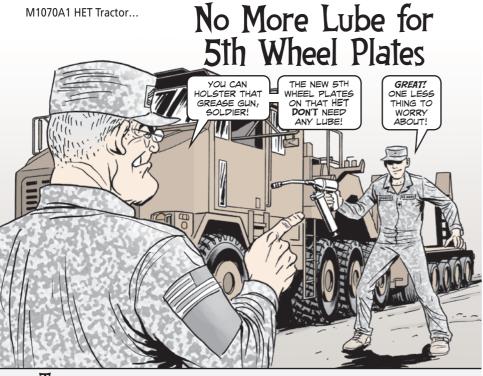
A jack stand that can safely support an empty truck or trailer may not be able to carry all the extra weight of the load. And most of the time Soldiers have no idea how much that extra load weighs. Plus the extra load changes the center of balance, which means the vehicle could fall off the jack stands. If a jack stand collapses, someone could be killed.

So I strongly recommend that units unload trucks and trailers *before* they put them up on jack stands. There is no point in taking chances.

Richard Fenner 43rd Sustainment Bde Ft Carson, CO

Editor's note: Excellent point, Mr. Fenner. Jack stands are the last thing you want to take chances with. Always unload your truck or trailer before putting it on jack stands.

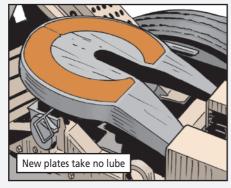
PS 728 12 JUL 13 PS 728 13 JUL 13



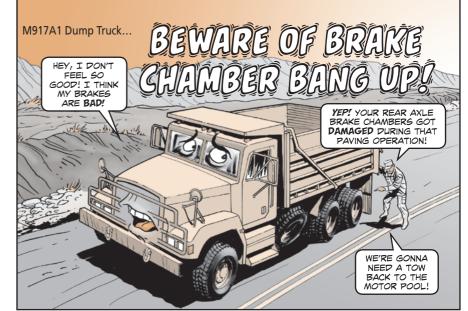
The new M1070A1 HETs have an upgrade that you might not know about, drivers. The 5th wheel now comes equipped with new plates that take **no lubrication.**

You heard it right! **No lube!** In fact, if you lube the non-lubrication plates, they'll collect sand, dirt and grit that will severely damage the plates.

You should continue putting a coat of GAA on the top surface of the 5th wheel's ramps, just like before. Before hookup, be sure to remove any grease on the M1000 semitrailer that would come into contact with the 5th wheel's non-lubrication plates.



Replacement plates are available as part of a kit, NSN 5340-01-603-7792. Both the left and right plate and 18 mounting screws come with the kit.

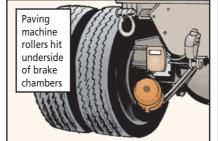


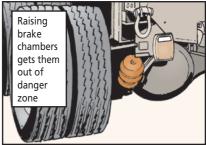
Operators, if you're going to use your M917A1 dump truck in a paving operation with the 780T bituminous paving machine, your mechanic first needs to reposition the vehicle's left and right rear-axle brake chambers.

The chambers are located so low on the truck axle that the rollers from the paving machine hit them during paving. The resulting damage can leave you brakeless.

This problem is nothing new. Just look around the motor pool and you'll probably see plenty of banged-up brake chambers.

To move the chambers, follow the info on Pages 3-4 through 3-10 of TB 43-0001-62-5 (Apr 00).

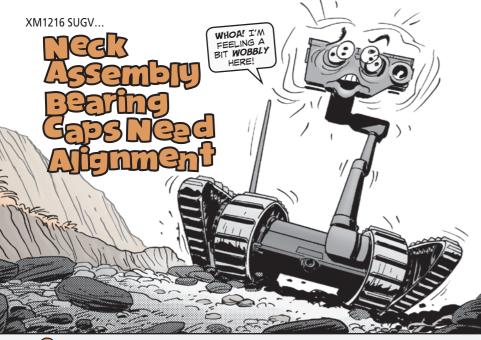




Need a copy? Ask your TACOM logistics assistance representative for help. Or you can ask ol' Half-Mast to send you a copy of the TB pages by e-mail:

half.mast@us.army.mil

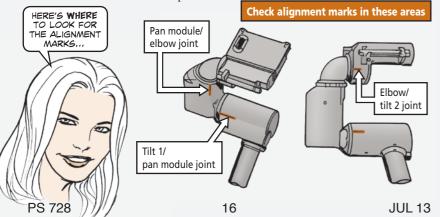
PS 728 14 JUL 13 PS 728 15 JUL 13



over time, vibration can cause the XM1216 small unmanned ground vehicle's (SUGV's) small actuator bearing caps to loosen.

When that happens, the neck assembly can loosen, too. That means the robot's head and neck can wobble. Talk about a hard-to-watch picture!

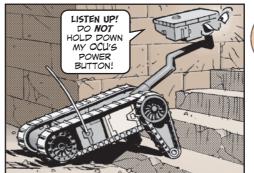
As part of your before and after PMCS, check the alignment marks on the vehicle's neck assembly bearing caps. If they're off by \$^1/16\$ inch or more, send the SUGV to sustainment maintenance for repair.





Operators, the best way to shut down the XM1216 small unmanned ground vehicle (SUGV) system is to use the hand controller and display screen menu commands. But there may be times when you have to manually power down the system using the operator control unit (OCU) computer.

When those times come, here's a simple reminder: After manually powering down the robot, press, but do not hold down, the OCU power button. The green light on the power button will remain lit while the computer runs through its normal shutdown sequence. That takes about 20 seconds, so be patient.



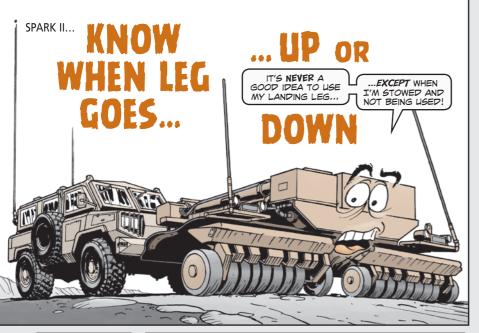


the OCU PWR button

Holding down the power button forces a hard shutdown that keeps the computer from completing its proper shutdown sequence. That can damage the computer or corrupt its software, so don't do it unless absolutely necessary!

By the way, if the hard shutdown method doesn't work, you can always disconnect the OCU battery located in the OCU backpack.

PS 728 17 JUL 13



OPERATORS,
THE LANDING LEG
ON THE SELF
PROTECTION
ADAPTIVE ROLLER
KIT II (GPARK II)
HAG ONLY ONE USE...

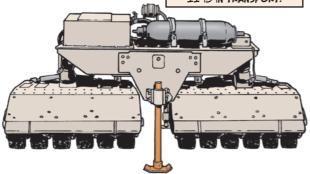


IT'S DESIGNED
TO STABILIZE THE
SPARK II WHEN
IT'S IN THE STOWED
POSITION AND NOT
BEING USED.

THAT MEANS YOU **SHOULD NOT** USE THE LANDING LEG TO ATTACH THE **SPARK** II TO THE VEHICLE SYSTEM'S PLATFORM.

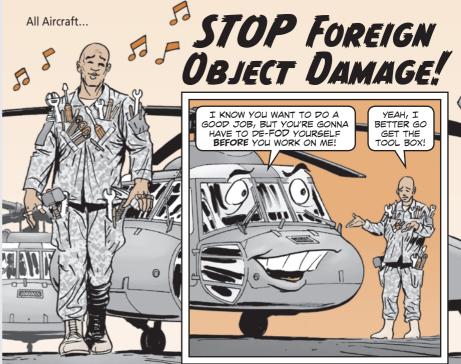
Use landing leg only when SPARK II
is stowed and not in use

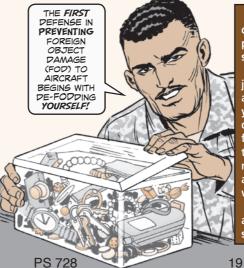
THE LEG SHOULD ALSO BE
STOWED WHEN THE SPARK
II IS IN TRANSPORT.



AND NEVER HAVE
IT LOWERED
DURING VEHICLE
OPERATION.

THAT'LL EITHER DAMAGE OR COMPLETELY BREAK THE LEG ASSEMBLY, PN 120000940. IT'LL SET YOUR UNIT BACK ABOUT \$350!





Before you perform aircraft maintenance, check for items on your body and every pocket or opening in your uniform or flight suit for loose items.

Remove watches, rings, dog tags and jewelry from your body. Remove combat and special skill badges or other items from your uniform. Remove loose coins, key chains, cell phones, wallets or other items from your pockets, including tools! All these items can fall out and end up inside moving aircraft parts like the drive shaft area, the rotor section and flight controls when you're working on the aircraft.

If you need someplace to store your accessories and personal items, use a resealable container.

PS 728 18 JUL 13 PS 728 19 JUL 13



Crews, how to place the aviation survival and egress knife (ASEK), NSN 1095-01-530-0832, on the primary survival gear carrier (PSGC) has been the subject of much debate!

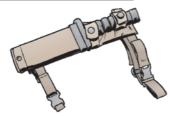
Because there has been no standard on placement of the knife and whether it could be mounted on the GEN II or GEN III vests, most followed their best guess.

There was talk that the knife could only be worn on the leg near the calf. Still others said the knife couldn't be worn on vests because a hard landing or aircraft mishap could cause the knife to stab its wearer.

Let's put the knife issue to rest and bury the hatchet! The final answer is found in the newest TM, dated 12 Mar 2012. Check out WP 0077 00 of TM 1-1680-377-13&P-1. The ASEK cannot be worn on the PSGC. That's the bottom line. The TM says the knife must be worn on the inside or outside of either calf.

Authorized placement of knife...inside or outside of either calf!





Because the knife placement has been the subject of much talk, any concerns with the TM procedure must be addressed by submitting a DA Form 2028 change request to the manual.

The TM is available on the LOGSA website at:

https://www.logsa.army.mil/etms

DO YOU NEED **APACHE HELMET NVG** VISOR TRACKS?

SERGEANT BLADE, I'M LOOKING FOR VISOR TRACKS.

> DO YOU KNOW WHERE I CAN FIND

SOLIDER, YOU'RE IN LUCK! WE'VE GOT YOUR VISOR TRACKS RIGHT HERE!



Dear SFC Blade

I am looking for the visor track NSNs for the integrated helmet and display sight system (IHADSS) NVG visor. We have enough visors, but all the tracks are worn out. Do I have to order the whole visor just to get the tracks or can I order them separately?

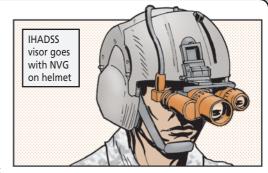
CW2 W.J.

Dear CW2 W.J..

The tracks do come as separate items. But you'll need two upper tracks and two lower tracks for each visor assembly, NSN 1270-01-584-2374 brings you one upper track and NSN 5340-01-584-4913 brings you one lower track.

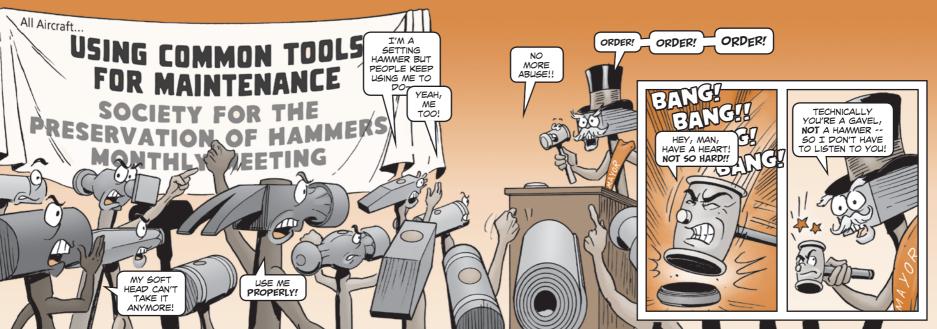
But there's a catch. The supply system is at zero stock on the tracks. A purchase contract is in the works, but it could take a few months to get some relief. So if you need tracks right now, you'll have to order the whole visor assembly for now.

"Rotor" Blade



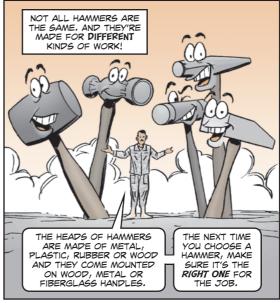


PS 728 PS 728 **JUL 13** 20 **JUL 13** 21









FOR THE FINER POINTS
ON HAMMER CARE AND
MAINTENANCE, CHECK OUT
CHAP 4 OF TM 1-1500-20423-9, GENERAL AIRCRAFT
MAINTENANCE (TOOLS
TAND GROUND SUPPORT
EQUIPMENT).

NOW LET'S HAMMER OUT THE DETAILS ON TYPES OF HAMMERS AND MALLETS YOU'LL FIND IN YOUR TOOL BOX.

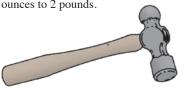


Soft-Faced Hammer

This hammer can be used for power hits and blows to machined, highly polished or soft surfaces without causing damage. On certain models, the hammer faces can be replaced if damaged or if you need a different hardness. They are color-coded for toughness or hardness.

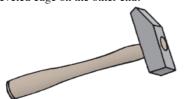


This hammer is more commonly used by mechanics. The head is steel and comes in various weights ranging from 4 ounces to 2 pounds.

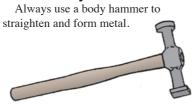


Setting Hammer

This hammer allows you to level sheet metal, bend edges and set double seams. Notice that it has a square, flat face on one end of the head and a sloping, beveled edge on the other end.

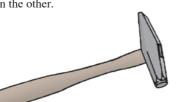


Body Hammer



Riveting Hammer

This hammer isn't hard to figure out. Its name identifies its purpose. When driving rivets and doing some light chiseling, this is the best hammer. It has a head that is cross peened on one end with either a square or cambered face on the other.



Lead or Copper Hammer

If you want to align steel surfaces, this is the hammer to use. Remember that you can file the hammer's working surface to restore even faces.

Mallets

When a metal hammer is too much for a job, your maintenance task may require a mallet because the surface of the equipment may need a softer touch. Here are the types of mallets available.

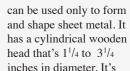
Rubber Mallet

Rubber mallets have a cylindrical head. Use this tool only when you are forming sheet metal or driving dowels and small stakes.



Rawhide Mallet

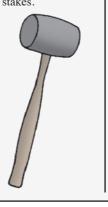
This mallet forms and shapes metal. You'll notice that it has a cylindrical head. It is made of tightly wrapped and staked sheets of leather.



The tinner's mallet

Tinner's Mallet

about 3 to 6 inches long.







- Never use a hammer for bumping parts.
- Never use a hammer as a pry bar because the handle can split and injure your hand.
- Never repair a damaged handle. Always replace it instead.

- Always wear eye protection when hammering. That keeps metal splinters from getting into your eyes.
- Make sure the hammer head is secure and tight so it won't fly off and injure another person.
- Always grip the hammer near the end of the handle and strike surfaces evenly.

TAKE HAMMER MAINTENANCE SERIOUSLY AND FOLLOW THE TM FOR HAMMER MAINTENANCE.

THEN YOU'LL BE SAFE RATHER THAN

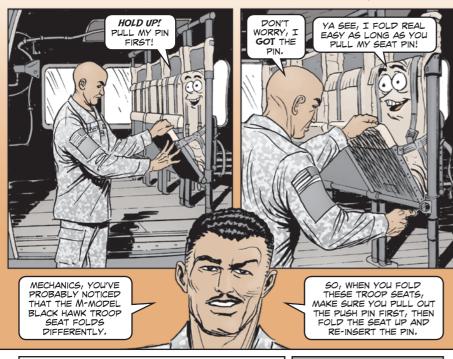




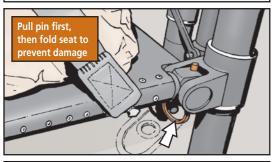


JUL 13

FOLDING TROOP SEATS



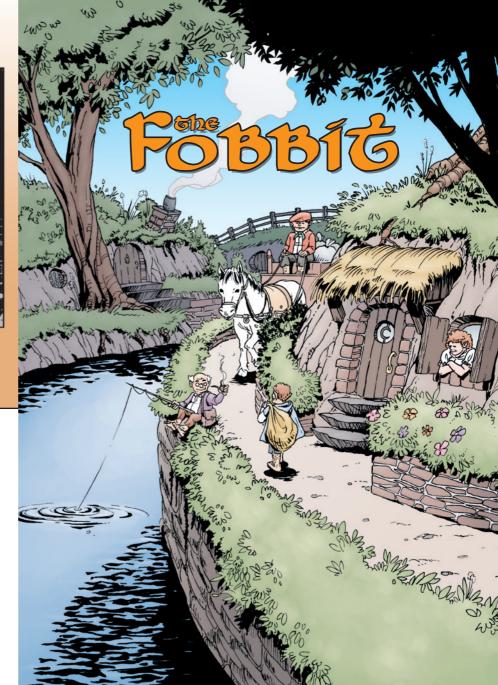
IF YOU FORCE THE SEAT UP WITHOUT PULLING THE PIN, YOU COULD ELONGATE THE PIN HOLE OR BREAK THE PIN WHEN IT CATCHES ON THE OPENING.



A BROKEN PIN MEANS THE SEAT WILL SAG OPEN AND WON'T STOW PROPERLY IN THE UP POSITION.



JUL 13



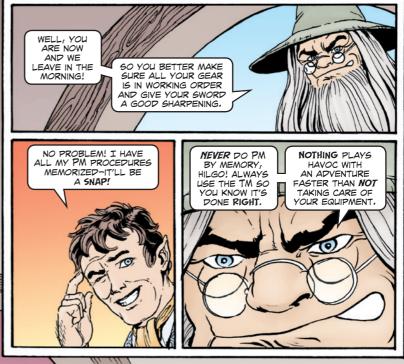
PS 728 26















PS 728 29 JUL 13



OH, REALLY? THIS BLADE
IS ABOUT AS SHARP AS
YOUR MIND, HILGO.

THIS WILL BE A LONG
JOURNEY INDEED IF YOU
PON'T START TAKING BETTER
CARE OF YOUR EQUIPMENT.











PS 728 31 JUL 13







JUL 13







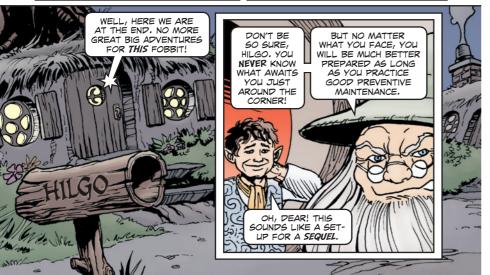
PS 728 32

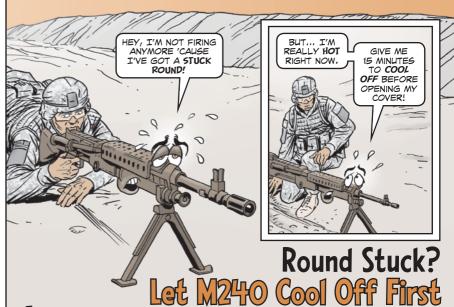




AW! I SHARPENED MY SWORD FOR NOTHING, I EVEN POLISHED MY NEW RING, THOUGH IT APPEARS TO HAVE NO SPECIAL POWERS WHATSOEVER... WHICH IS KINDA DISAPPOINTING, GOOD PM
IS ITS OWN
REWARD.
DON'T BECOME
COMPLACENT.
YOU NEVER
KNOW WHEN THE
NEXT BATTLE
WILL BE SO
YOU MUST BE
PREPARED.







If you've fired your M240 machine gun long enough for it to get hot and you get a

stuck round, DON'T OPEN THE FEED TRAY COVER. If you don't wait for your

M240 to cool off first, the round could explode in your face when you pop the cover.

weapon pointed downrange, and stay away from it for 15 minutes. Then you can do

the clearing procedure in WP 0010 00 in TM 9-1005-313-10.

But remember, the safety

needs to be set to F before you

charge your M240. Otherwise,

you jam it. Set the safety to F,

lock the bolt completely to the

rear, and release the charging

cable (or return the cocking

handle) to the fully forward

and locked position. Now that you've charged your M240, you can put the safety on S.

you and your M240 are back in business.

WP 0017 00.

What you should do is let your M240 cool down. Set the safety to S, keep the

Place safety in F before charging or you'll jam it

PS 728 35 JUL 13

Then raise the feed tray cover and look for a round. If there is a stuck round in the chamber, follow the procedure in WP 0016 00. If it's a ruptured cartridge, go by

Once you've got the round out, lower the feed tray cover, put the safety on F and



Recently there have been several instances on firing ranges of M240 machine guns (particularly the M240L) malfunctioning.

Investigation showed these causes:

- dirty weapons
- rusty barrels
- lack of lubrication •
- firing again and again without switching barrels

Four simple letters could have prevented most of these problems: PMCS.

BEFORE PMCS: Clean and lube the M240 like TM 9-1005-313-10 says. Do this even if the weapon is newly issued. Look for damaged or missing parts. Make sure you have all the basic issue items (BII) and components of end item (COEI) you'll need in the field, particularly the spare barrel, the -10, lubricants and cleaning materials.

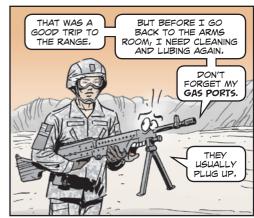
DURING PMCS: Rotate the barrels every 10 minutes during sustained fire and every 2 minutes during rapid fire. If the M240 starts firing sluggishly, stop and clean it.

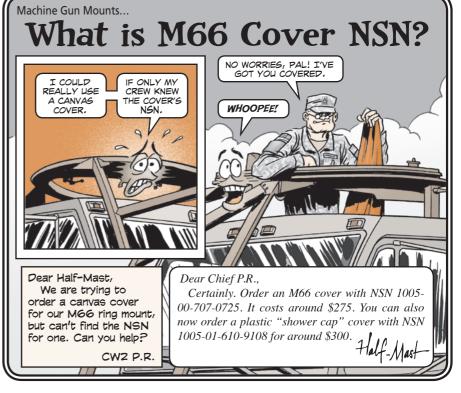


AFTER PMCS: Clean and lube the M240 before it goes in the arms room for storage. Pay special attention to the gas regulator and gas ports, which tend to gunk up with carbon.

Use training time to go over the cleaning and lubing procedures in the -10 and the procedures in the Service Upon Receipt of Materiel in the -23&P.

Remember those four letters-PMCS-and your firing problems will go up in smoke.





FEED SLIDE ADJUSTMENT MISSED





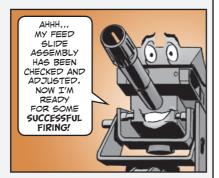
Dear Editor,

Through my work as a small arms inspector for the lowa National Guard, I have run into a problem concerning the feed slide adjustment for the MK 19 machine gun.

The PMCS in the MK 19's TM 9-1010-230-10 (Aug 12) does not mention that the feed slide adjustment should be checked by field support before firing. As a result, too often the check is not done. A misadjusted feed slide will hurt firing. Both operators and field support should make sure the procedure that begins in WP 0022-6 in the -23&P (Aug 12) is done before the MK 19 is fired.

SSG Kenneth Caldwell IAARNG

Editor's note: Good point, Sergeant. Operators should add the feed slide adjustment check by field support to their -10's PMCS.





Dear Editor,

Through my job with the Ft Campbell COMET, I help support the small arms program here. I see too many units with M16 rifle/M4 carbine cleaning kits that don't have a cleaning rod. The kits use a flexible cable instead of a cleaning rod.

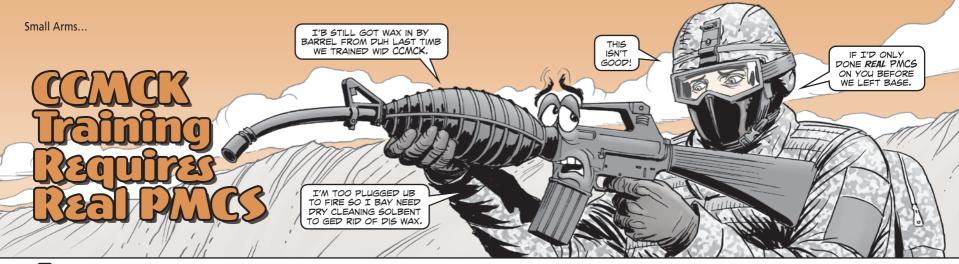
It is essential that Soldiers have a cleaning rod. With the rod, they can remove jammed rounds or dirt that plugs the barrel. The flexible cable won't be much use in those situations.

Units need to make a point of ordering only the cleaning kit called out in TM 9-1005-319-10. It comes with a cleaning rod.

Paul Carver COMET Ft Campbell, KY Editor's note: Good point about the cleaning rod, Paul. But actually the NSN for the cleaning kit has changed. You now order the kit with NSN 1005-01-562-7393. The new NSN will be included in the next change to the -10.

If you do receive a cleaning kit without cleaning rods, submit a PODR.

If you just need the cleaning rod, order the cleaning rod handle section with NSN 1005-01-113-0321 and the cleaning rod section with NSN 1005-00-050-6357 (this brings a box of 25 sections). You need three of the rod sections for a complete cleaning rod.



The good news is the close combat mission capability kit (CCMCK) is approved for not only the M16 rifle and M4 carbine, but also the M249 machine gun and M9 pistol. CCMCK gives you a safe, reliable, and accurate training system that closely mimics firing real rounds.

The bad news is the wax from CCMCK rounds can leave the inside of your weapon a mess. If you don't do a good job cleaning out all the wax, it can plug the barrel. Firing a weapon with a plugged barrel is dangerous to you and your weapon. Avoid that potential catastrophe with this CCMCK PMCS:

BEFORE—Clean and lube your weapon with CLP like it's spelled out in the weapon's -10 TM. You want your weapon as clean as possible before firing CCMCK rounds.

AFTER–Do the same cleaning and lubing procedure, but this time pay special attention to the chamber, barrel and bore. Those are the most likely areas you'll find wax. Really tough wax deposits may require dry cleaning solvent, NSN 6850-01-474-2319. Use solvent under the direction of your armorer. The solvent may need to soak into the wax for several minutes before it will work.

When you think you have all the wax cleaned out of the barrel, run your cleaning rod from muzzle to chamber to make sure there are no obstructions. Look for the end of the cleaning rod in the chamber.

If you can't see the end of the rod, you may have a stuck round. If you can't push out the round yourself, tell your armorer. But make sure the problem is fixed before you turn in the weapon to the arms room.

Armorers, don't use a new M16/M4 barrel that has fired fewer than 200 standard rounds for CCMCK. Older barrels are less likely to have problems with a stuck CCMCK round. M249 barrels come from the manufacturer ready for CCMCK firing. The M9 conversion kit has a blue barrel for firing CCMCK rounds.

After training with CCMCK, it's a good idea to check the M16s and M4s with the barrel straightness gage. See WP 0015-24 in TM 9-1005-319-23&P.

For the complete word on CCMCK, see TM 9-6920-3700-10. It's on the LOGSA ETM website:

https://www.logsa.army.mil/etms

Questions? Contact ARDEC's Robert Weissman at DSN 880-3056, (973) 724-3056, or email:

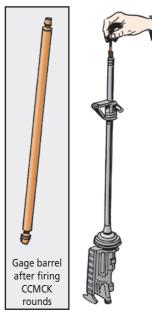
robert.j.weissman.civ@mail.mil

or Edward Gilligan at DSN 880-4992, (973) 724-4992, or email:

edward.gilligan2.civ@mail.mil

You can also contact TACOM's John Kelty at DSN 786-1275, (586) 282-1275, or email:

john.m.kelty.civ@mail.mil

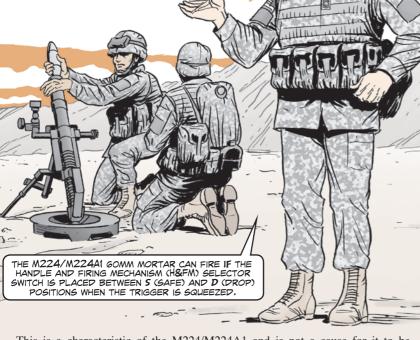


M151 Scope NSN Changes

Because of safety concerns, you can no longer order the M151 scope with NSN 6650-01-504-8456, which brought the scope alone. Instead, use NSN 6650-01-557-7444. That brings the scope and the laser filter unit (LFU). The LFU ensures your eyes will be protected from lasers.

PS 728 40 JUL 13





This is a characteristic of the M224/M224A1 and is not a cause for it to be deadlined. But operators obviously must check during PMCS that the selector switch aligns correctly with the S, D and T detents and stays in the selected mode during the checks. See the PMCS in WP 0018-5 in TM 9-1010-223-10 (Oct 12) and WP 0021-5 in TM 9-1010-233-10 (Feb 11).

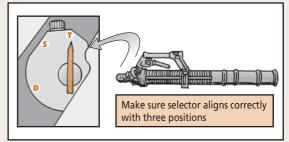
If there is any doubt, have your support check it out.

It's also a good idea to check out the H&FM when it's issued and before it's used for the first time.

PS 728 42 JUL 13

IN THE FIELD, MAKE SURE YOU ALWAYS HAVE THE FIRING SELECTOR SET TO THE CORRECT POSITION.





THE FOLLOWING UPDATED WARNING IS BEING ADDED TO BOTH TMS...

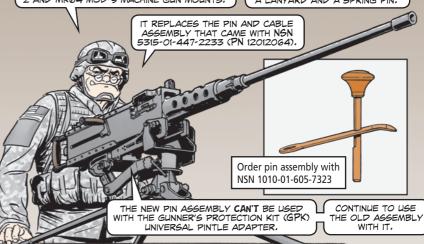
WARNING LOADING AND FIRING HAZARDS

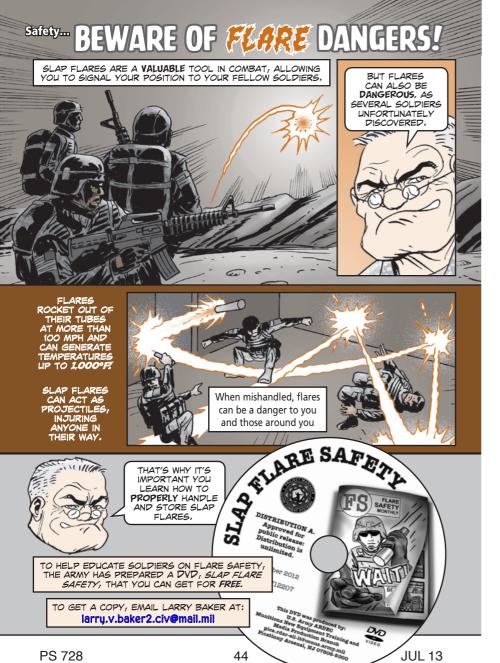
- Selector must be at S (safe) except when firing.
- Misalignment of safe detent position on firing selector will cause a malfunction that may accidentally arm the mortar and can result in unintentional discharge of round.
- Failure to comply may result in serious injury to personnel and damage to equipment.

Machine Gun Mounts...

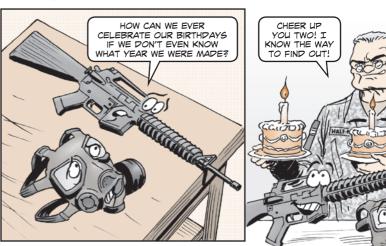
New Pin Assembly Available

A NEW PIN ASSEMBLY IS NOW AVAILABLE FOR THE UNIVERSAL PINTLE ADAPTER AND THE CANTILEVER ARM FOR MK93 MOD 1 AND 2 AND MK64 MOD 9 MACHINE GUN MOUNTS. THE PIN ASSEMBLY, NSN 1010-01-605-7322 (PN 13036435), POES AWAY WITH THE NEED FOR A LANYARD AND A SPRING PIN.





Small Arms, CBRN Masks....



How Do You Find Year of Manufacture?

Dear Half-Mast,

I have been told to enter the year of manufacture for each of our unit's small arms and masks in SAMS-E. Do you know where I can find that info?

SFC O.G.

Dear Sergeant O.G.,

Sure do. For small arms, enter the weapon's serial number in the Unique Item Tracking (UIT) in LOGSA's Logistics Information Warehouse (LIW). As long as the weapon was not manufactured before 1995, you should find the correct year there. Look for the "P" transaction to see the first production date. Go to:

https://www.logsa.army.mil/index.cfm

Click on the LIW down arrow, then LIW Portal. Go to the App Warehouse to do a search for UIT.

For M40/M42 and M45 masks only, check the lot number that is on the lower right strap. If it says PBA11A203-010, for example, that stands for:

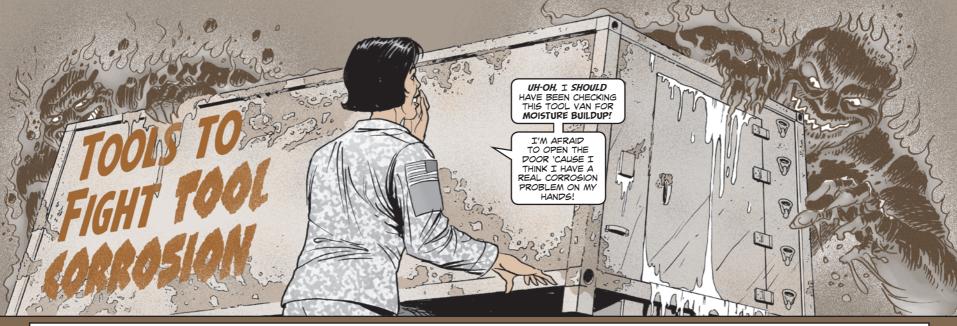
- PBA (Pine Bluff Arsenal)
- 11 (2011)
- A (January)
- 203 (medium size)
- 010 (lot number)

So the mask was manufactured in Jan 2011. B would be February, C March, etc.

The new M50/M51 mask uses a lot number in this form: MMMYYWWSEE.

- MMM- manufacturer
- YY- year
- WW- week 1 through 52
- S-facepiece size (S, M, L)
- EE-engineering version

Half-Mast



Dear Editor,

High humidity can quickly cause moisture to build up in the vans where some of the larger tool sets are kept. Often you may not use those tools for several weeks. Then when you open up the van after all that time, you find moisture has started to corrode some of the tools, especially those with worn finishes. Sockets are a good example.

If the corrosion is too bad, you must go through the hassle and expense of replacing the tools. These PM tools can help you fight corrosion:

 The vapor capsules that hang in the van help absorb moisture, but they need to be changed at least yearly more often in humid areas. If you're operating in humid areas, it's a good idea to add extra vapor capsules, too. NSN 6850-01-590-1676 gets four capsules.

 Make sure tools are wiped completely clean of dirt, grease and moisture before they're stored in the drawers. If tools are clean and dry, they are less likely to corrode during storage.



Corrosion can quickly ruin tools like sockets

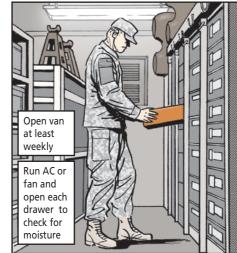


- Keep the van inside a temperature-controlled part of the motor pool complex if possible. That will avoid the temperature extremes that make the moisture buildup worse.
- At least weekly (more often in really humid areas like Louisiana), open up the van and turn on the AC. If the van doesn't have AC, open up the door and vents and run a fan. That will help push moisture out of the van.

Open up every drawer and check for wet tools. Wipe them dry if necessary.

If you run into minor corrosion, it can usually be removed with a wire brush.

SPC Matthew Robertson B Co, 88th BSB Ft Polk, LA



Editor's note: Just a weekly check of your tool vans can help you avoid a collision with corrosion. Thanks, Specialist.

PS 728 46 JUL 13 PS 728

M59A Field Range...

Bad Rollers + Hot Pot = SCALDED HANDS!







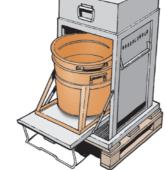


Food service specialists, take extra care when cooking with the M59A field range, NSN 7360-01-479-0312, or you could get burned.

Units have reported a safety hazard while heating liquid in a 10- to 15-gal stock pot in the range: The pot jams on the rollers as it's being removed. Hot liquid spills out. Soldiers not wearing protective gloves get their hands and forearms severely scalded.

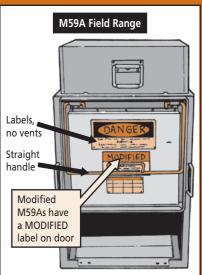
When cooking with the M59A range you must wear the protective gloves, NSN 8415-01-511-4637, included with the basic issue items (BII) of both the Army kitchen module (assault) and the food sanitation center (FSC).

Wear gloves when cooking with field range!



Pot jams on rollers and hot liquid spills out

Differences Between M59s and M59As M59 Field Range Curved handle Sliding



The following field feeding equipment may have an M59A as a component of end item (COEI)...

ltem	NSN 7360-	Item	NSN 7360-
Army kitchen module (assault)	01-558-3100	Mobile kitchen trailer (MKT)	00-138-7782 01-092-0470 01-155-6020 01-214-1176 01-246-4646 01-313-2238 01-417-4635 01-483-8617
Kitchen, company level field feeding (KCLFF)	01-200-9828		
Kitchen, company level field feeding-enhanced (KCLFF-E)	01-374-1980		

All M59As issued from the Defense Logistics Agency (DLA) since March 2012 have been modified by replacing the defective rollers. These ranges have a MODIFIED label on the door. Inspect your range for the MODIFIED label. If it has one, the range is safe for cooking, but you should still wear the protective gloves. The old M59, NSN 7360-00-702-1719, does not present this safety hazard.

If your range doesn't have a label, replace the rollers by getting the free M59A roller kit, NSN 7310-01-600-2290, from DLA. It comes with installation instructions, parts, tools and a MODIFIED label. You can also find installation instructions online at the U.S. Army TACOM-Unique Logistics Support Applications (TULSA) website:

https://tulsa.tacom.army.mil/SAFETY/soum/tacom_wn/M59SOUMKitinstalation.pdf

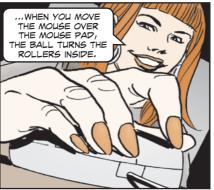
For the whole story on the M59A safety hazard, see TACOM LCMC SOUM 12-011 at the TULSA LCMC Safety First website:

https://tulsa.tacom.army.mil/SAFETY/message.cfm?id=SOUM12.011.html

Computers...



Of Mouses



THE MOVING ROLLERS SEND ELECTRICAL SIGNALS TO THE COMPUTER.

THE COMPUTER, IN TURN, SENDS SIGNALS THAT MOVE THE POINTER ON THE SCREEN

PROBLEM IS, OVER TIME THE MOUSE PICKS UP ALL KINDS OF DIRT, LINT, HAIR AND STICKY GUNK AS IT ROLLS ON THE PAD.





REGULAR CLEANING HELPS KEEP YOUR MOUSE WORKING SMOOTHLY.

PS 723

THE JOB IS EASY AND TAKES ONLY ABOUT 10 MINUTES.

50 **Basic Cleaning Materials**

USE THESE foam swabs, NSN 4920-01-243-0571 INEXPENSIVE ITEMS • can of compressed gas duster. NSN 7930-01-398-2473 FOR CLEANING...

- brings a box of six 10-oz cans.
- tweezers water
- mild soap
- old toothbrush
- clean, soft, lint-free cloth. A scrap from a cotton t-shirt works hest.



*This NSN

is not on

the AMDF.

Order it on

DD Form

1348-6

and put

"NSN not

on AMDF"

REMARKS

in the

block.)

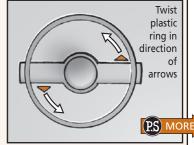


IF YOU LIKE, YOU CAN ORDER THE KEYBOARD/MOUSE CLEANING KIT, NON 7930-01-406-2203*

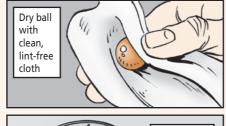
THE KIT COMES WITH A 1-OZ PUMP-SPRAY BOTTLE OF CLEANER, A 21/2-0Z CAN OF COMPRESSED GAS **PUSTER AND EIGHT** CLEANING SWABS.

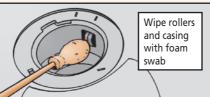
Cleaning, Step by Mouse Step

- 1. Turn off your computer and shut down the power.
- 2. Unplug the mouse cable from the computer.
- 3. Turn the mouse upside down. Remove the plastic ring that holds the ball in place by twisting it in the direction of the arrows. Turn the mouse right side up and dump the ring and ball into your hand. Shake the mouse gently if you have to.
- 4. Scrub the ball and ring with a toothbrush in warm, soapy water. Make sure to get any oily film off the ball. Dry them with a clean, lint-free cloth and set them aside.

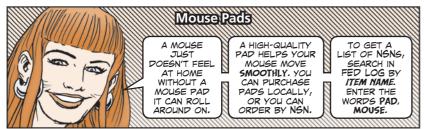


- 5. Turn the mouse upside down and look into the empty ball casing. Notice the three rollers inside. If there's a string of lint, hair and dirt wound around any roller, remove it with tweezers. You can also use shots of compressed gas duster to remove stubborn debris.
- 6. Put some isopropyl alcohol on the end of a foam swab. (Don't drench the swab.) Wipe the rollers and the casing. Rotate the rollers to clean all around them. Remove as much debris as possible. Even a small piece can keep your mouse from rolling smoothly.



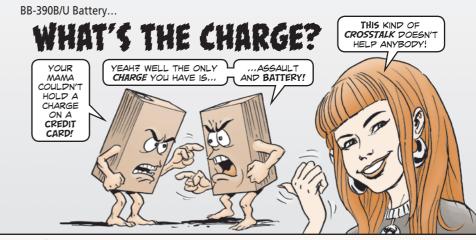


- 7. Using a cloth dampened with alcohol or warm water, wipe the outside of the mouse and each of its buttons. While you're at it, wipe the mouse pad as well.
- 8. Let your clean mouse air dry for a while.
- **9.** Put the ball back into the casing. Put the plastic ring over the ball. Lock the ring in place by twisting it in the opposite direction of the arrows.
- 10. Plug the mouse cable into the computer.





52



When used in multiple battery devices such as the AN/PSC-5 radio, some BB-390B/U batteries, NSN 6140-01-490-4317, might overestimate how much charge they have left. The problem is caused by crosstalk between the batteries.

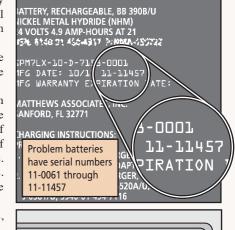
The problem batteries are made by Mathews Associates, Inc. The serial numbers of affected batteries run from 11-0061 through 11-11457.

When used in a single battery device such as the AN/PRC-119F radio, the BB-390B/U remains unaffected.

Before you put two BB-390B/Us in a multiple battery device, make sure both batteries have the same state of charge. Two LCD indicators on top of the battery display the state of charge. Each indicator has five segments. Make sure both batteries show the same number of segments.

When you remove the batteries, check the state of charge indicators. If you have used the batteries for several hours and they still show a complete charge, use a pencil to mark the battery's USER INFO label "EMPTY." Make sure to erase the label after charging the battery.

PS 728



EMPTY

USER INFO

Erase

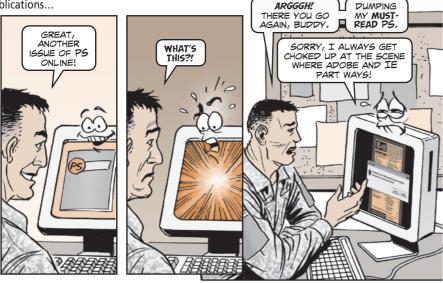
label

after

charging

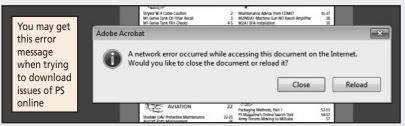
battery

Publications...



Question: Why does my web browser choke or crash when I try to open a PS Magazine pdf online?

Answer: Many of you have emailed to alert us to this problem. When trying to open a large pdf file of PS on our website, like a full issue or large article, you get an error message and then your Internet browser chokes. Reloading seldom helps.



The problem is caused by a conflict between Adobe Reader® (versions X and XI) and the Internet Explorer® web browser. Adobe hasn't found a solution in more than a year now and we're not holding our breath. Unfortunately, we can't fix this on our end since it's a software conflict. We're just as annoyed as you!

The best workaround we've found is to download the full issue of PS you want to your hard drive. Then open it directly in Adobe Reader instead of your Internet browser.

Here's how: When you find the PS issue you want to read, right mouse click on the issue's cover, then select "Save Target As." On PCs, a box will open allowing you to select where on your hard drive you want to save the issue.

When you open the issue from your hard drive, you should still be able to open individual articles (the red boxes at the bottom of the pages that read "Click here for a copy of this article to save or email.").

You can also try using the Mozilla Firefox® browser instead, but that isn't an option on some Army networks. If you read PS on your personal PC at home, though, that might be the easiest solution.

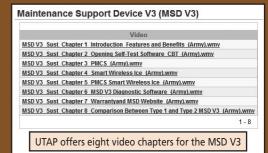


Training...

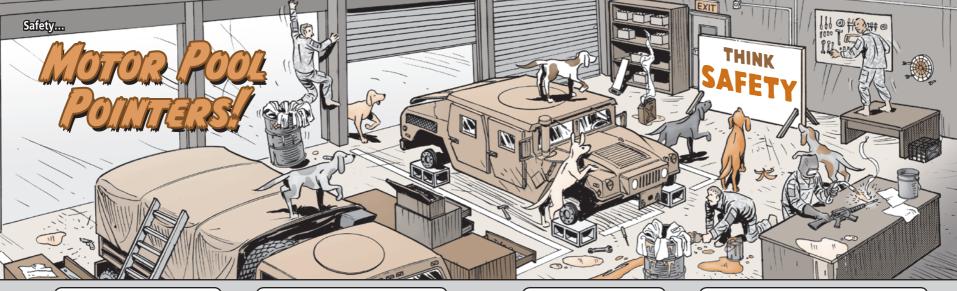
UTAP Offers M5D V3 Videos

he Unit Training Assistance Program (UTAP) offers an eight-chapter video informational series for the Maintenance Support Device (MSD) Version 3. You will find it at the Library of TACOM Training Information Site (LOTTIS) website. Visit: https://utap.army.mil

Once you are in LOTTIS, look under "UTAP Produced Information Videos" and click Maintenance Support Device V3 (MSD V3). Download any or all chapters. If you have problems downloading the videos, you can order a DVD. Click on the <u>Customer</u> Assistance tab on the home page, then fill out and submit the required information.



PS 728 55 **JUL 13**

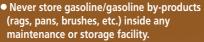


FOLLOWING ARMY SAFETY STANDARDS MEANS PROTECTING WORKERS AND EQUIPMENT, AT HOME OR ON THE BATTLEFIELD. A SOLID UNIT SAFETY PROGRAM ALSO REPUCES COSTS AND TIME LOST DUE TO PREVENTABLE INJURIES, ACCIDENTS OR EQUIPMENT DAMAGE. WHETHER WORKING IN A
MAINTENANCE TENT OR
MOTOR POOL, ALONE OR
WITH OTHERS, REMEMBER...

SAFETY IS KEY!



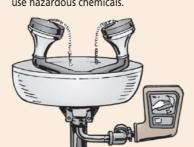
 Make frequent inspections where hazardous materials are stored. Check all areas for things left out of place that create potential fire hazards (chemicals, fuels, rags, wood or paper products—anything that might catch fire.)



Store petroleum, oil and lubricants in approved containers in well-ventilated, marked areas.



- Create and post safety boards that are easily seen and accessed by all.
- Keep maintenance bays neat and clean when not in use.
- Post and observe all floor, load-bearing and lifting equipment capacities.
- Make eyewash stations and emergency showers available wherever personnel use hazardous chemicals.



- Use ground guides at all times.
- Conduct refueling operations safely and with proper equipment, including grounding and bonding connections, to reduce risk of flash fires.
- Keep vehicle driving speeds down in or around maintenance facilities to a maximum of 5 to 10 mph or as posted.



PS 728 57 JUL 13

 Clearly mark designated smoking areas and strictly enforce rules in nosmoking areas. Prominently display "NO SMOKING WITHIN 50 FEET" signs near flammable items or hazardous areas.



 Use lubrication pits for servicing military vehicles only. Keep pits well-ventilated and illuminated. Place steel fences around pits when vehicles are not being serviced.



 Only trained and authorized personnel wearing appropriate personal protective equipment (PPE) should handle Chemical Agent Resistant Coating (CARC) paint. Painting areas must be covered and protected from debris.



- Store and secure gas cylinders to walls or fixed surfaces to prevent them from tipping, falling or rolling.
- Stencil maximum load capacity on both sides of support assemblies for overhead cranes and hoist assemblies.
 Be sure they are readily visible.
- Close off the battery shop from the general maintenance area. Make sure the shop is clearly marked.



 Store battery packs away from other metal objects.

 Operate power tools away from explosives, flammable liquids, gases, or dust. Power tools create sparks that may ignite dust or fumes.



 Remember, only fully trained and qualified licensed personnel are authorized to weld. Use an exhaust system when welding.



• Ensure serviceable PPE is available and used by all personnel.





For more info

US Army Combat Readiness/Safety Center: https://safety.army.mil

The Ground Risk Assessment Tool (GRAT) can assist users in identifying, assessing and controlling hazards for missions or tasks related to maintenance operations. GRAT can also be used to create DA Form 7566, Composite Risk Management Worksheet. Visit:

https://grat.safety.army.mil/GRAT/

For more safety guidance, review FM 5-19, Composite Risk Management, at: http://armypubs.army.mil/doctrine/DR pubs/DR a/pdf/fm5 19.pdf



PS 728 58 JUL 13

Packaging... PSCC Bags HAZMAT Loose Fill

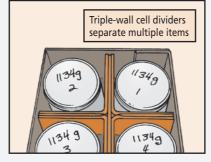


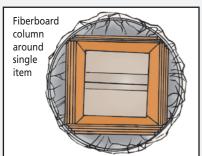


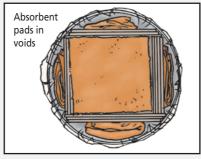


Common loose-fill packing materials used for shipping liquid hazardous materials (HAZMAT), like vermiculite or ground paper, are dusty and messy. Storage and disposal of loose fill has challenged units for years.

Good news! The Logistics Support Activity's (LOGSA) Packaging, Storage, and Containerization Center (PSCC) Packaging Applications Testing Facility came up with a packaging solution that doesn't use loose fill. Instead, liquid HAZMAT items (cans, bottles, jars, etc.) are put in corrugated fiberboard boxes inside steel drums with fiberboard pads and absorbent sheets. Individual packages inside the boxes are separated by at least 3-ply cell dividers.







The fiberboard and absorbent sheets are easy to store, reusable, recyclable and readily available. Six new packaging designs are already approved and certified for DOD use. For more info, contact Charlotte Lent at DSN 795-7160, (570) 615-7160, or email:

charlotte.a.lent.civ@mail.mil

PS 728 60 JUL 13

Connie's POST SCRIPTS

ILAP Support at LOGSA Help Desk

For all issues with the Army's Integrated Logistics Analysis Program (ILAP), please email the LOGSA Help Desk at: usarmy.redstone.logsa.mbx.help-desk@mail.mil

Or call the LOGSA Help Desk at Toll Free 1-866-211-3367, commercial 256-955-7716 or OCONUS DSN 312-645-7716. **Note:** The former ILAP support email address (support@ilap.army.mil) no longer works. Any email sent there will **not** be forwarded.

M1235A2 MaxxPro Dash Ambulance Seatbelt NSN

Get a new seatbelt for the crew seat in the back of the M1235A2 MaxxPro Dash ambulance with NSN 2540-01-600-6825. Make a note until the TM is updated.

M16 Bore Brush OK for M249

Page 35 of PS 723 (Feb 13) said not to use the M16/M4 bore brush in the M249 machine gun. That's wrong. The M249 uses the same bore brush, NSN 1005-00-903-1296. It's the chamber brushes that are different. The M16/M4 chamber brush comes with NSN 1005-00-999-1435 and the M249's with NSN 1005-01-131-2121. If you used the wrong chamber brush, it could get stuck in the chamber.

M-ATV MRAP Surge Tank NSN

Get a new surge tank kit for your M-ATV MRAP with NSN 2930-01-613-7146. Make a note until the NSN is added to TM 9-2355-335-24P.

M119A2 Brake Fluid Check

Page 3 in PS 725 (Apr 13) told you to check the M119A2 howitzer's brake fluid reservoir for fluid within $^{1}/_{2}$ inch of the top of the reservoir. Actually, the fluid level should be within .12 inch (approximately $^{1}/_{8}$ inch) of the top of the drop-in filter. Do this as part of your BEFORE PMCS and make a note until this info is changed in TM 9-1015-252-10 and -24.

Service Kit Info Available on DLA Website

Need a list of service kit NSNs for your unit's trucks, trailers or other equipment? DLA Land and Maritime has a kit website that'll really help you. Eyeball it at:

http://www.dscc.dla.mil/programs/ kitting/search.aspx

DISTRIBUTION: To be distributed in accordance with the initial distribution number (IDN) 340312, requirements for TB 43-PS-Series.

Would You Stake Your Life on the Condition of Your Equipment?

ALL SHOOK UP



DON'T LET THAT MIRAP ROCK OR ROLL YOUR KEP ROLLOVER TRAINING UP-TO-DATE VISIT THE DRIVER'S TRAINING TOOLBOX

https://safety.army.mil/drivertrainingtoolbox/