

TB 43-PS-710, 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		MISSILES	35
	M2/M3-Series Bradley Hand Break Guidance Stryker Brake Drum Removal	2		Patriot Missile System Radar Turnbuckles	35
	M113-, M1059-Series FOV Compartment Cover Gasket	3		SMALL ARMS	35
	M1-Series Tank PIB Circuit Breaker	4-5		ACOG Flip Cover NSNs	35
	M1-Series Tank Transmission Fluid Reminder	5		M249, M240B Machine Guns MK93 Mounting	36
	M109-Series SP Howitzer Air Cleaner Settings	6-7		Small Arms Mounting Guidance	37
	M109A6 Paladin Cam Screws Staking	7		DA Form 2408-4 Hard Copy Reminder	38-39
	M777A2 Towed Howitzer Cable Caps	8-9		CBRN	40
	WHEELED VEHICLES	10		M41 PATS Alcohol Ordering	40-41
	HMMWV Transmission Replacing Tips	10-11		CBRN Masks Hydration Systems Caution	41
	HMMWV Smart Start System Control Boxes	12		M50, M51 Mask Resources	42
	FMTV Air Tank Draining	13		M12A1 DED Decon Fuel Additive	43
	Tactical Vehicles Starting Reminder	13		COMMUNICATIONS	44
	M1000 HET Semitrailer Installation Hardware	14		AN/PVS-14 Night Vision Goggles	44
	MRAP/ROUTE CLEARANCE	15		Vehicular Radios Power Surge Reminder	45
	MRAP Overhead Power Line Safety Reminder	15		SOLDIER SUPPORT	46
	COMBAT ENGINEERING	16		Packaging, Shipping Microscopic Roundworms	46-49
	Talon IV Robot Maintenance Tips	16-19		LOGISTICS MANAGEMENT	50
	CCE/MHE Turbocharger	20		Shelf Life, Service Life Information	50-51
	AVIATION	21		PBUSE Adds Enhanced AIT	52-53
	UH-60 Series Pitot Tube Safety Reminder	21		COMET Team Assistance	54-55
	ALSE Zeta II, SCL Helmet Liner NSNs	22-23		DOD EMALL Shopping	56-58
	AGSE Holster Kit NSNs	23		PBUSE Eagle Gazette Online	59
	UH-60A/L/M Series Drive Shaft Shimming Check	24-25		LRC Policy and Information Encyclopedia	59
	Aircraft Steps, Walkways, Handholds	26		Connie's Post Scripts	60-61
	2011 Index of Articles	27-34			

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.

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PS, the Preventive Maintenance Monthly
USAMC LOGSA (AMXLS-GP)
5307 Sparkman Circle
Redstone Arsenal, AL 35898

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By order of the Secretary of the Army:

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

Official:

JOYCE E. MORROW

Administrative Assistant to the Secretary of the Army

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2012

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**TIN MAN
LUBING?!**

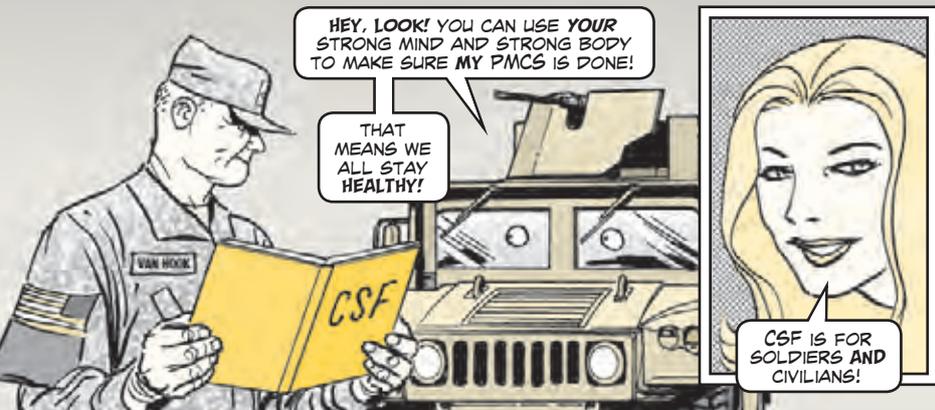
**OF COURSE!
I KNOW
ALL ABOUT
LUBING!!**

**I AM
OZ THE
MAGNIFICENT!**

**QUICK!
LOOK IN
THE NEW
PS INDEX
FOR
LUBE
ARTICLES!
IT STARTS
ON PAGE
27!**



COMPREHENSIVE SOLDIER FITNESS



Warfighters and their DA civilian counterparts deal with stress, family issues and many day-to-day challenges in the office, at home and on the battlefield.

The Army is addressing the needs of Soldiers and civilians to help them maintain strong minds and strong bodies by introducing Comprehensive Soldier Fitness (CSF). The Army's CSF program is "a structured, long-term assessment and development program to build resilience and enhance the performance of every Soldier, family member and DA civilian."

The program stresses five dimensions of strength that address the physical, emotional, social, family and spiritual needs of Soldiers and civilians.

These five dimensions of strength are supported by the Four Pillars of Comprehensive Soldier Fitness. The Pillars are the Global Assessment Tool (GAT), the Master Resilience Trainers (MRTs), the Comprehensive Resilience Modules (CRMs) and Institutional Training. These tools will help you assess every area of your life.

Although *PS Magazine's* main focus is maintaining equipment, it is important to note that the CSF program focuses on maintaining healthy Soldiers and civilians. Consider it PM for the Soldier's mind and body. Go to the CSF website, sign up and stay Army Strong:

<http://www.csf.army.mil>

Click here for a copy of this article to save or email.



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ISSUE 710 JANUARY 2012

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Having trouble getting your Bradley to shift into gear, drivers? Could be you haven't completely released the hand brake.

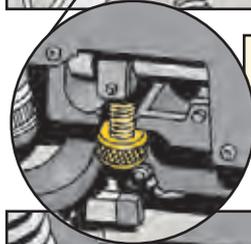
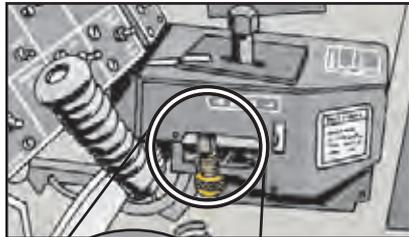
Releasing the hand brake for the TEC transmission may seem simple, but leave out a step and you're going nowhere fast. After all, the hand brake and gear selector are interlocked. That means if the hand brake isn't released, the gear selector won't move.

Release the hand brake like this:

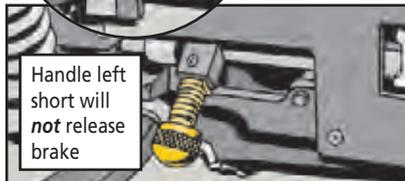
1. Press down and hold the brake pedal.
2. Twist the knob on the hand brake handle and lift up.
3. Slide the handle **all the way forward** and down into the slot.

Step 3 is where the problem lies. If you don't slide the handle all the way forward and down, the brake is still applied and the gear selector won't move.

So if you've got a stuck gear selector, make the hand brake your first check.



Slide handle all the way forward and down to release brake



Handle left short will not release brake

PUT A STOP TO BRAKE DRUM STRIPPING!



Dear Half-Mast,
Recently, we've received reports that some Stryker brake drums are having to be replaced because of stripped jack bolt holes. Jack bolts are used to help remove the drum during PMCS inspection when it's stuck in place.

One possibility for the stripped holes is that technicians may be trying to remove the drum without first releasing the brake shoes. The brake drum replacement procedures in the IETM are being revised to make this requirement a little more clear.

Until that happens, can you remind them that the brake shoes should always be released before trying to remove the brake drum?

Dan Cottone
Stryker Logistics
Management Specialist
TACOM

Removing drum without releasing brake pads could strip jack bolt holes



CONSIDER THEM REMINDED, DAN!

MECHANICS, IF YOU'VE NOTICED OTHER REASONS WHY THE JACK BOLT HOLES ARE BEING STRIPPED...



...SEND AN EMAIL TO daniel.cottone.civ@mail.mil

M113-, M1059-Series FOV Compartment Cover Gasket NSN

Get a new gasket for the compartment cover of your M113- and M1059-series vehicles with NSN 5330-01-573-4626 (PN 10865503R09). NSN 5330-00-781-8065 is a terminal item. It's shown as Item 9 in Fig 179 of TM 9-2350-261-24P (Aug 05) and Item 11 in Fig 290 of TM 9-2350-277-24P (Oct 03, w/Ch 4, Oct 09).

PIB Circuit Breaker On?

WE GOTTA GET A MOVE ON! WE'RE RUNNING LATE FOR THAT TRAINING EXERCISE!

DON'T WORRY, I'LL GET US THERE FAST!

WE'D BETTER TURN OFF THE PIB CIRCUIT BREAKER FIRST!

C'MON, GUYS! YOU DON'T WANNA DO THAT!

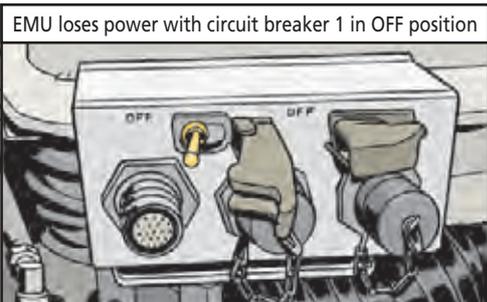
THE DEPOT WILL NEED THAT DATA FOR MY NEXT REBUILD!

THE ENGINE MEMORY UNIT (EMU) ON YOUR M1-SERIES TANK PLAYS AN IMPORTANT ROLE, TANKERS AND MECHANICS.



The EMU collects engine operational data that plays a vital role in condition-based maintenance (CBM), the Army's new maintenance system for depots. When the engine is returned to the depot, having this historical EMU data makes the overhaul and rebuild process easier and more cost effective. If the EMU data is missing or incomplete, your engine doesn't get all the maintenance attention it needs.

The key to the whole process is the power interface box (PIB). The PIB is located in the engine compartment just forward of the powerpack's quick-disconnect panel. It comes equipped with two circuit breaker toggle switches numbered 1 and 2. Circuit breaker #1 is used to provide power for the EMU. Circuit breaker #2 is a spare for future use.



EMU loses power with circuit breaker 1 in OFF position

Far too often, these circuit breakers are found in the OFF position. Why? It's a bit of a mystery, but there are a few possibilities:

- Vehicle electrical system faults could be causing the circuit breaker to trip.
- Sidecar failure has been known to trip other circuit breakers in the tank's electrical system. So it's possible that this circuit breaker is being tripped by the sidecar.
- Intentionally flipping the circuit breaker to OFF. Some mechanics and tankers believe the EMU is a spy device. That's simply not true! Turning the circuit breaker off just means the operational wear and tear on your engine isn't properly recorded, hindering the CBM process.
- Ignoring the position of the switches. Some tankers and mechanics think the protective covers force the switch to the ON position. Unfortunately, that's not the case. So make sure the switch is in the ON position before closing the cover.

A redesign of the red protective circuit breaker covers is under development. If implemented, the new covers would force the switch to the ON position when closed. But until that redesign is applied, it's your responsibility to make sure the circuit breakers are on.

Oil Spill **DAMAGES** Transmission

The M1-series tank's transmission filler neck doesn't have a very big opening, mechanics. In fact, it's so small, you'll end up with a lot of spillage if you try to pour transmission fluid directly from a can.

The spilled fluid blows onto the oil cooler fins where it attracts dirt and dust like a magnet. That gooey mess won't let the heat radiate away from the oil inside the coolers, putting your transmission at risk.

Stop the spillage by inserting a 1-qt flexible funnel, NSN 7240-00-559-7364, in the filler neck. Just slowly pour the fluid into the funnel to prevent overflow.



AIR CLEANER

UPS AND DOWNS



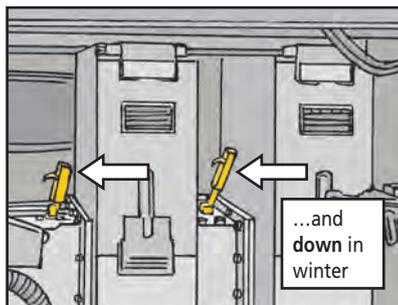
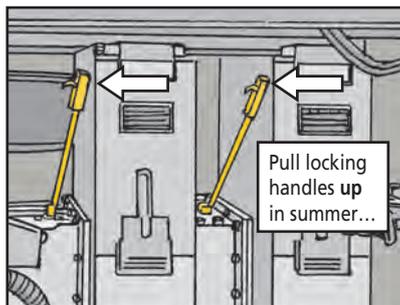
I WOULDN'T BE IN THIS SHAPE IF YOU'D REMEMBERED TO RAISE MY ENGINE AIR CLEANER LOCKING HANDLES!

WHAT'S HE SAYING IN THERE?

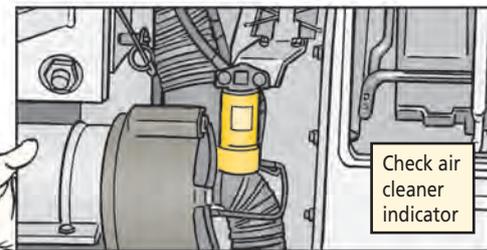
When the bottom drops out of the thermometer this winter, make sure your howitzer's air cleaners are set for the season.

The air cleaner locking handles need to be down and locked in their holders when the temperature is below 25°F. If you extend 'em, the air is too cold and your engine won't run properly.

For intermediate temperatures (25-40°F), start the engine with the locking handles in the winter (down) position. Then, move the handles to the summer (up) position when the engine reaches operating temperature.



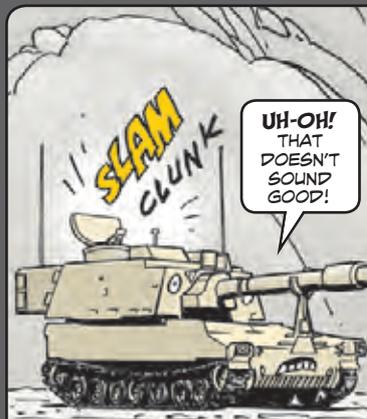
Remember, when temperatures climb above 40°F, you must put the handles in the up, extended position. Leaving the handles down during warm winter days—and especially during the summer—will overheat your engine and maybe burn up some valves.



IF THE INDICATOR READS 25-IN H₂O OR HIGHER, THE AIR CLEANER ELEMENT **NEEDS** TO BE SERVICED.

A READING OF **LESS** THAN 25-IN H₂O IS **OK**.

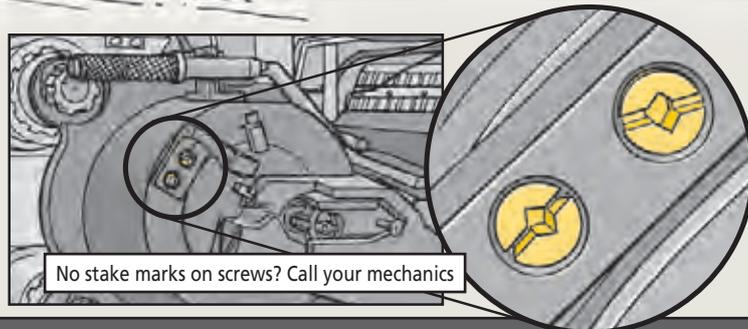
DON'T PUT CAM SCREWS AT STAKE!



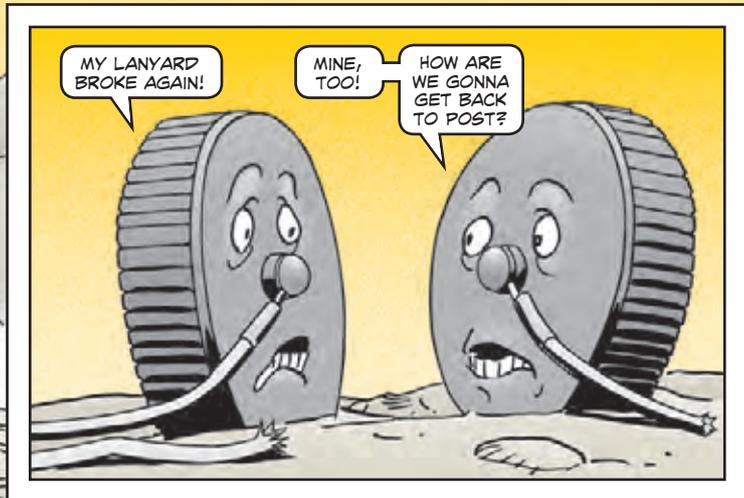
If you hear that sound when closing the breech on your M109A6 Paladin, chances are the breech control cam has fallen off, crewmen.

The cam is held in place with two screws. The constant stress of closing the breech, especially during live fire, loosens the screws and allows the cam to break or fall off. That's why it's important to make sure the screws are installed properly.

Take a quick look at the screw heads. There should be two stake marks on each screw head. If you don't see the stake marks, the screws will come loose. Ask your mechanic to stake them properly. He'll follow the procedures on Page 4-108 of TM 9-2350-314-34-2 (Feb 99, w/Ch 4, Apr 08).



CHAIN PROVIDES CAP SECURITY



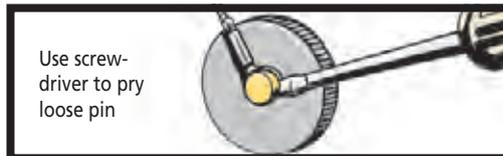
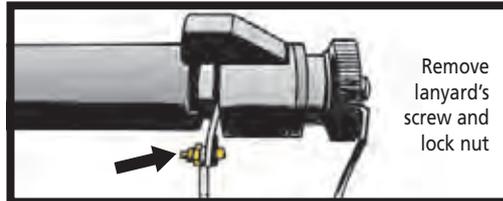
Dear Editor,

The wire rope that attaches the caps to the W16 and W3 cables for the M777A2 howitzer just isn't strong enough for daily use. After a few times removing and reinstalling the caps, the wire breaks. Usually that means a lost cap.

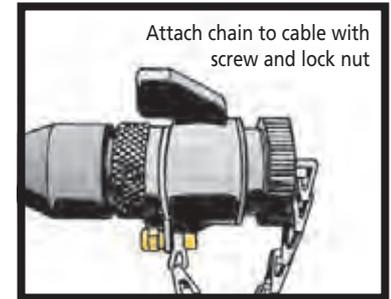
Both the W16 cap, NSN 5935-01-559-3903, and the W3 cap, NSN 5935-01-559-3900, are a bit pricey.

We've fixed that expensive problem by replacing the wire lanyard with one made of weldless chain, NSN 4010-01-353-9368. This chain is inexpensive—only 77 cents a foot—but is much harder to break than the wire lanyard. It takes about 15 minutes to modify each cap. Here's how:

1. Remove and save the screw and lock nut from the eyelet on the W16/W3 cable. This disconnects the lanyard from the cable.
2. Secure the cap in a vice. You can use a vice on a workbench or wrecker.
3. Using a #3 flat tip screwdriver from the General Mechanics Tool Kit, pry loose the pin holding the wire to the center of the cap.



4. Cut a 6-in section of the weldless chain. The chain comes by the foot, so order as much as you need to replace all the caps in your unit.
5. Place one end of the chain over the hole in the center of the cap and secure it with a blind rivet, NSN 5320-01-015-6896. Move the chain around the cap a bit. That allows some free play for screwing the cap on the cable.
6. Secure the chain to the cable using the screw and lock nut that you removed in Step 1. You'll need to leave a little room for free play, so don't over-tighten.
7. Screw the cap back on the cable.



CW3 Demonte Brooks
606th FSC, 1-377th FAR
Ft Lewis, WA

Editor's note: We tip our caps to you, Chief! On some older versions, the wire lanyard is attached to the cable using a rivet instead of the screw and lock nut. You'll need to use a replacement screw and lock nut to modify those cables.

HMMWV...

Replace Old Transmissions by Attrition



WILL YOU LOOK AT THIS!?!

THERE ARE JUST TOO MANY CHOICES FOR TRANSMISSIONS.

DIDN'T YOU HEAR?



THINGS ARE DIFFERENT NOW!

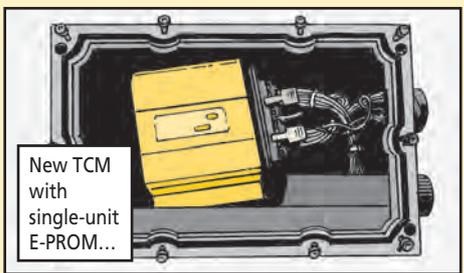
THERE ARE ONLY TWO CHOICES!

The truck headshed tells us that there have been a lot of questions from the field about the 4L80E HMMWV transmission and transmission control module (TCM) E-PROM (or erasable programmable read-only memory). Maybe that's because the HMMWV once had 13 different transmissions with 13 different TCM E-PROMs for each one. Thankfully, things have changed! Now there are only two transmissions and two TCM E-PROMs.

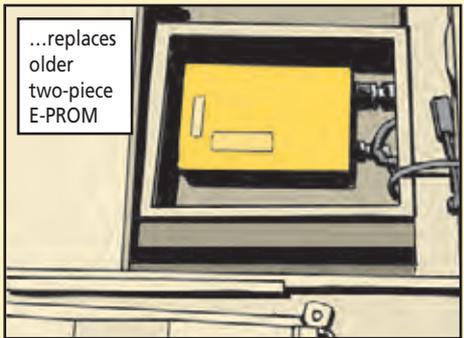
The HMMWV parts manuals will be updated with this info. Here's what you need to know in the meantime:

All legacy A2/R1 "heavy variant" HMMWV transmissions are being replaced through attrition. So when it's time for a new one, you'll get a transmission, NSN 2520-01-489-0849, and TCM (containing the single-unit E-PROM), NSN 2520-01-579-1379.

All up-armored HMMWV transmissions will also be replaced by attrition. So you will receive a transmission, NSN 2520-01-489-0850, and TCM (containing the single-unit E-PROM), NSN 2520-01-579-2302.



New TCM with single-unit E-PROM...

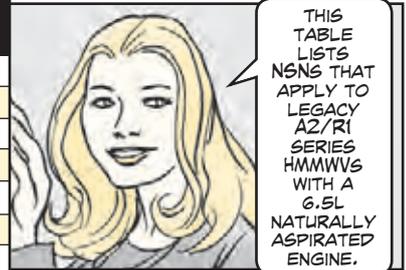


...replaces older two-piece E-PROM

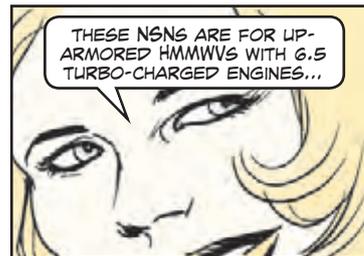
Note that the two TCMs are not interchangeable, so the legacy TCM will only work with legacy transmissions. And the up-armored TCM will only work with up-armored transmissions. Mixing the two will cause the transmission to go into a "SAFE" mode and it won't shift out of second gear.

FED LOG shows that older two-piece E-PROMs (microcircuits) are still available until the supply runs out. They are only compatible with their respective production year.

Year	Transmission NSN 2520-01-	E-PROM 5962-01-	Kit
1995	399-4691	430-0182	N/A
1996	430-5291	430-0208	57K3502
1997	439-6830	440-0368	57K3523
1998	461-7072	470-4619	57K3539
1999	461-7074	476-7772	57K3549
2000	473-7410	480-5247	57K3558
2001	489-0849	497-1611	57K3569



THIS TABLE LISTS NSNS THAT APPLY TO LEGACY A2/R1 SERIES HMMWVS WITH A 6.5L NATURALLY ASPIRATED ENGINE.



THESE NSNS ARE FOR UP-ARMORED HMMWVS WITH 6.5 TURBO-CHARGED ENGINES...

Year	Transmission NSN 2520-01-	E-PROM 5962-01-	Kit
1996	430-2765	431-5121	57K3523
1997	439-6831	440-0369	57K3522
1998	459-8531	470-4621	57K3540
1999	461-7077	480-5246	57K3548
2000	475-1083	480-5248	57K3559
2001	489-0850	497-2519	57K4408

HMMWV...

SMART START SYSTEM CONTROL BOX BUZZ

BUZZBUZZ BUZZBUZZ BUZZBUZZ BUZZBUZZ



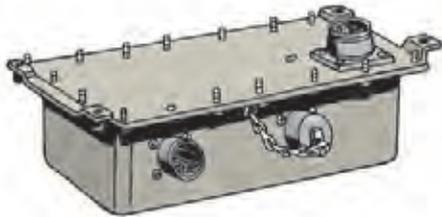
WHAT DO YOU THINK THEY'RE TALKING ABOUT?

I DUNNO, BUT I GOT A BAD FEELING ABOUT IT!

Hey, have you heard about the S3? No, we don't mean your unit's operations officer! We're talking about your HMMWV's smart start system (S3) control box.

Some people didn't get the word that the S3 control box, NSN 6110-01-542-7901, is replacing the engine electrical start system (EESS) control box, NSN 6110-01-491-2158. The S3 was put into HMMWV production starting with serial number 255269.

S3 control box, NSN 6110-01-542-7901, replaces EESS control box



When you order the S3, you'll get the S3 box and the temperature sensor. The biggest difference between the EESS and the S3 is that the S3 control box has three connector receptacles, while the EESS control box has only two. The plan is to use the third connector receptacle on the S3 control box in the future for troubleshooting and data logging.

Right now, the HMMWV parts manuals, TM 9-2320-280-24P and TM 9-2320-387-24P, don't reference the S3 control box. But you should see it listed once the TMs are updated.

For answers to your questions about your HMMWV's S3, contact TACOM's Gaines Stevens. He's at DSN 786-2371, 586-282-2371 and gaines.e.stevens.civ@mail.mil

Judy Iglesias at TACOM can also help you. She's at DSN 786-4758, 586-282-4758 and

judy.i.iglesias.civ@mail.mil

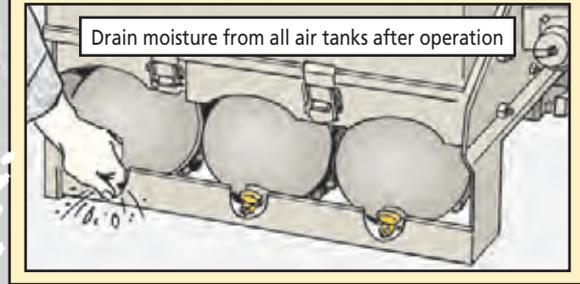
FMTV...

DRAIN THE AIR TANKS!

IF BREVITY IS THE SOUL OF WIT, THEN PM IS THE SOUL OF VEHICLE SURVIVAL-



-ESPECIALLY IN COLD WEATHER.



Operators, remember to drain the air tanks on your FMTV after the day's run. If you forget, moisture builds up and freezes. It creates corrosion that plugs up the entire air system, including brake valves and cylinders, CTIS filters and gladhands. It can also lead to vehicle brake failure.

Open each air tank's petcock just long enough to drain the water, then close it. Don't leave the tanks open. That won't get rid of water, it just creates more.

How come?

Condensation forms during the night and builds up in the tank. When you close the tank in the morning just before you're ready to drive, water is trapped inside the tank. More water means more corrosion.

Tactical Vehicles...

I FEEL SLUGGISH. I WISH THEY'D OPERATE ME INSTEAD OF JUST LETTING ME SIT.



If you have vehicles just sitting in your motor pool, especially in cold or humid places, operate them at least every two weeks. This applies to tanks, wreckers, and cranes, as well as trucks and trailers.

Operating vehicles at least every two weeks helps keep hydraulics working and fluids flowing to lube what they need to. If your vehicles sit idle for too long, hoses can dry-rot and crack. Valves, valve bodies, belts, brakes, and transmission shafts might also break or have trouble moving.

Motion Means Maintenance!

HARDWARE COMES UP SHORT

HEY! WHERE ARE YOU GUYS GOIN'?

TILL YOU CAN GET THE RIGHT SIZE MOUNTING HARDWARE WE'RE OUTTA HERE!



The brake relay valve assembly, NSN 4820-01-359-6577, and air pressure relay valve assembly, NSN 2530-01-332-2420, on your HET semitrailer come with brand new hardware for installation.

So you can just toss out the old hardware, right? Not so fast!

Turns out the tapping screw and machine bolts that come with the new assemblies are too short. You're going to need that old hardware to mount the new assemblies.

So what do you do if the old hardware is damaged? Fig 27 of TM 9-2330-381-24P (Jun 09) gives the NSNs for the right size hardware.

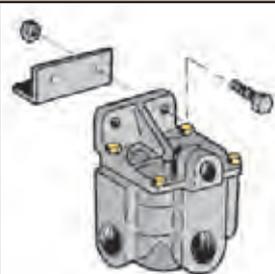
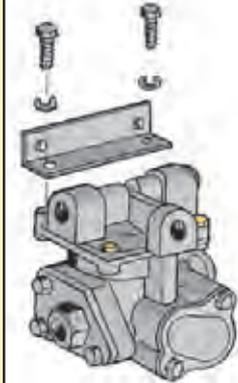
The brake relay valve assembly's tapping screw (Item 2) comes with NSN 5305-01-358-8406. NSN 5306-01-359-0126 brings 100 machine bolts (Item 22) for the air pressure relay valve assembly.

When installing either of the valve assemblies, make sure you apply a few drops of locking compound to the hardware's threads. Then torque both the screw and bolts to 50 to 70 lb-in.

Note

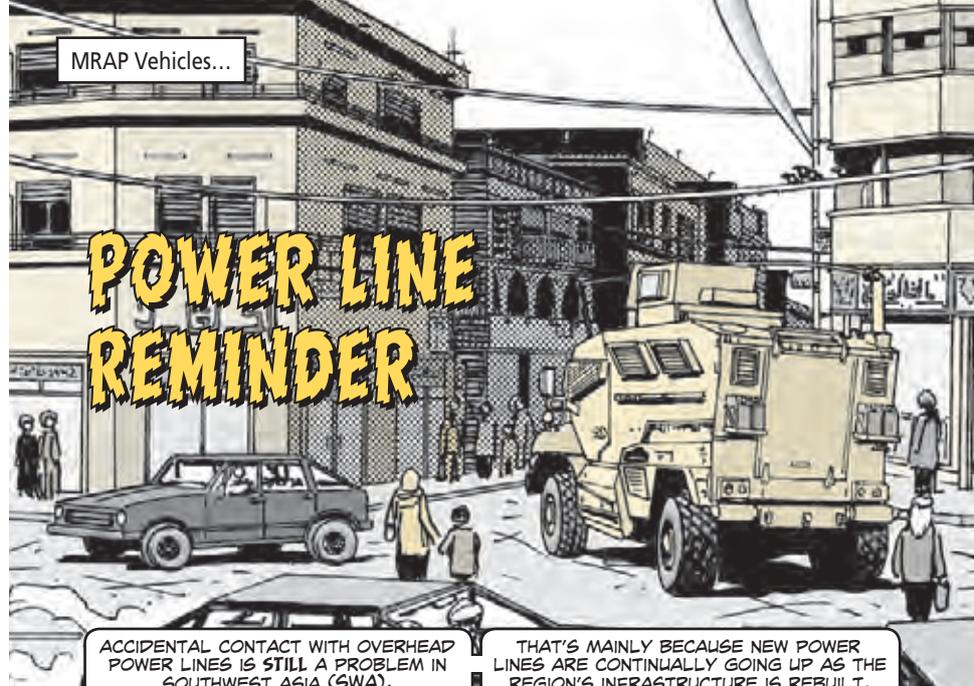
When torquing the two valve assemblies to their L-brackets, there's a tendency for the bolts on top of the assemblies to come loose. So, once the brake assembly valve is in place, remove the 2 bolts on top, add a few drops of locking compound to the threads, and re-torque them to 50-70 lb-in. No locking compound is needed for the 4 bolts on top of the air pressure relay valve. Just re-torque them to 50-70 lb-in after attaching the valve.

After torquing brake valve assembly to L-bracket, remove these two bolts, add locking compound and re-torque to 50-70 lb-in.



After attaching air pressure relay valve assembly, re-torque 4 top bolts to 50-70 lb-in

POWER LINE REMINDER



ACCIDENTAL CONTACT WITH OVERHEAD POWER LINES IS STILL A PROBLEM IN SOUTHWEST ASIA (SWA).

THAT'S MAINLY BECAUSE NEW POWER LINES ARE CONTINUALLY GOING UP AS THE REGION'S INFRASTRUCTURE IS REBUILT.

BUT MRAP USERS CAN REDUCE POWER LINE RISK BY TAKING THE FOLLOWING ACTIONS TO PROTECT BOTH CREW AND PASSENGERS...

- Units must ride with the antenna whip in the down position when driving the MRAP.
- Do not touch the power lines! Most lines are not insulated.
- Scan for low-hanging lines in the area. Be aware of the hazards they might present.
- Make sure there's enough clearance between the MRAP—including any antennas—and any power lines. The driver and passengers need to work as a team and keep an eye out for suspect lines.
- Avoid making radio transmissions while crossing under power lines. An electric charge from the power lines can pass to the vehicle without direct contact.

KNOW YOUR MRAP VEHICLE'S HEIGHT LIMITATIONS.

MAKE SURE THERE'S SAFE CLEARANCE FROM OVERHEAD POWER LINES.

THE POWER LINE CLEARANCE CAN BE 10, 15, OR 20 FEET, DEPENDING UPON THE VOLTAGE ON THE LINE.

MAKING PM WORK



GOOD OLD PREVENTIVE MAINTENANCE AND NEW TYPES OF EQUIPMENT GO HAND-IN-HAND.

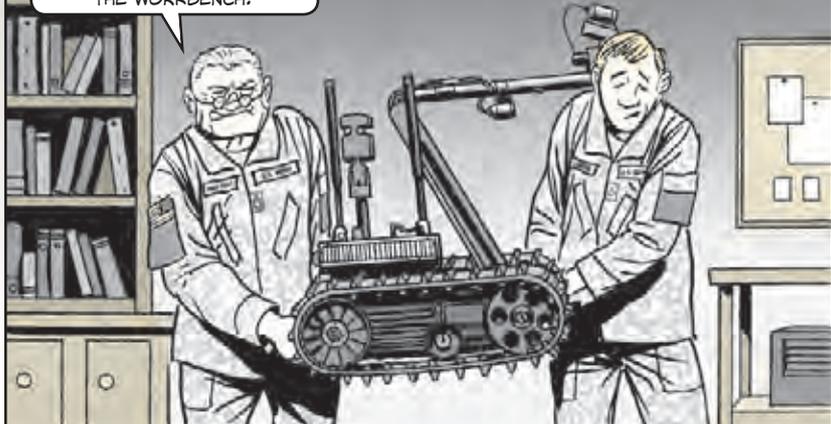
THESE POINTERS WILL KEEP YOUR ROBOT ON TRACK BEFORE IT HEADS OUT TO DETECT ROADSIDE BOMBS.

Save Your Back

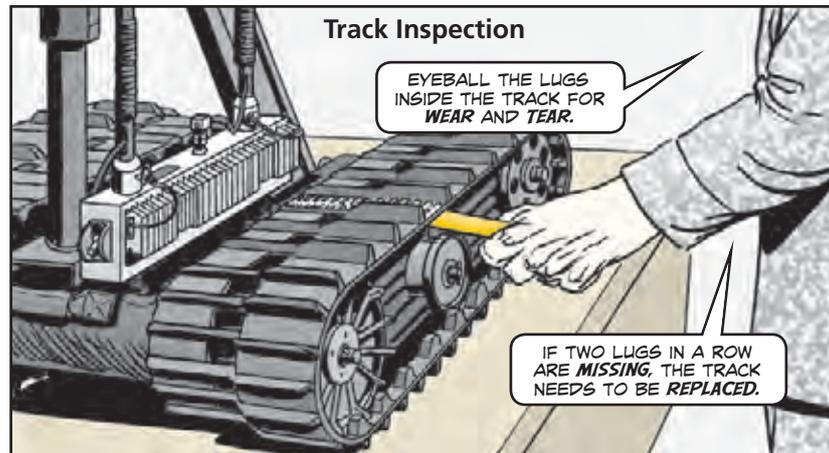
BEFORE DOING ANY CHECKS AND SERVICES, GET A BUDDY TO HELP YOU LIFT THE 115-LB ROBOT ONTO THE WORKBENCH.

MAKE IT A **TWO-MAN** JOB.

THAT WAY YOU'LL **SAVE** YOUR BACK AND **AVOID** DROPPING THE ROBOT OR **DAMAGING** ANY OF ITS COMPONENTS.



Track Inspection



EYEBALL THE LUGS INSIDE THE TRACK FOR **WEAR AND TEAR**.

IF TWO LUGS IN A ROW ARE **MISSING**, THE TRACK NEEDS TO BE **REPLACED**.

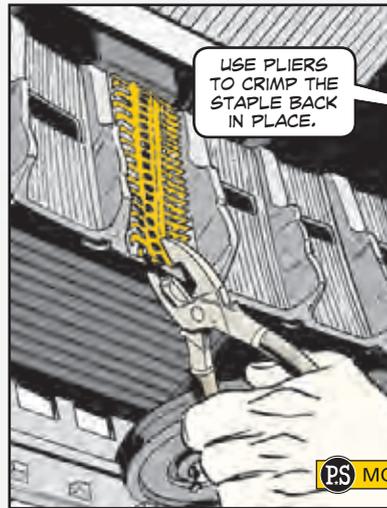
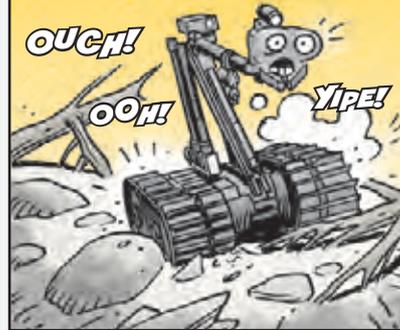


IF THE TRACK IS STRETCHED OUT AND CAN'T BE ADJUSTED ANY FURTHER...

...**REPLACE IT**.

WHILE CHECKING THE TRACK, EYEBALL THE STAPLES THAT ATTACH BOTH ENDS OF THE RUBBER TRACK.

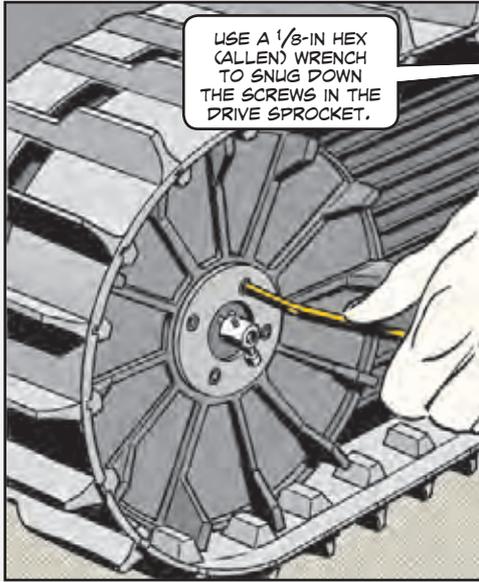
THESE STAPLES GET BENT UP WHEN TRAVERSING OVER A BRANCH OR JAGGED ROCK.



USE PLIERS TO CRIMP THE STAPLE BACK IN PLACE.

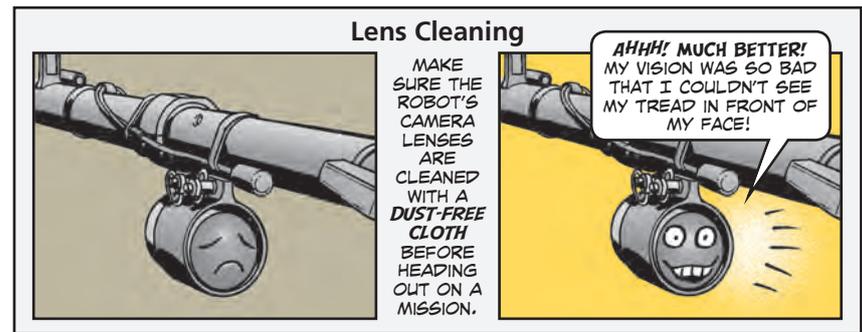
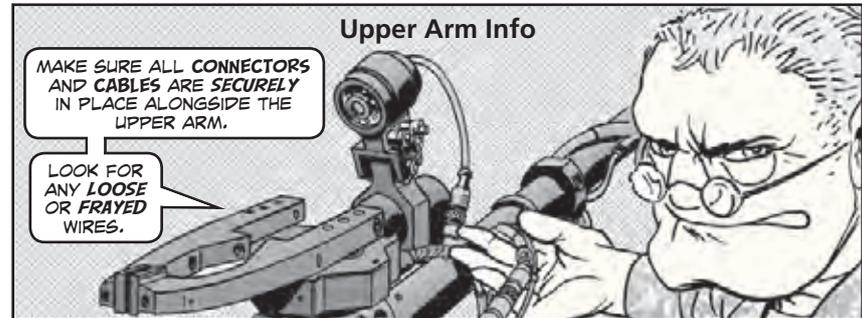
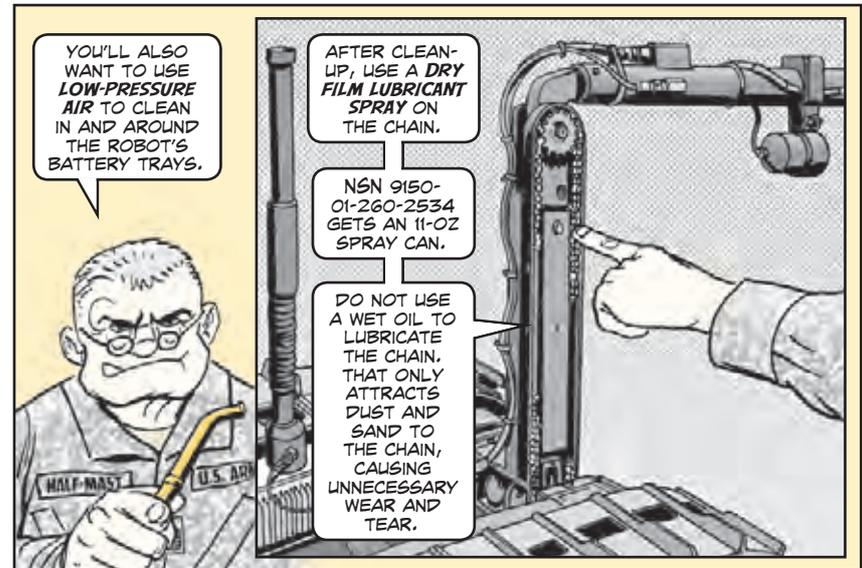
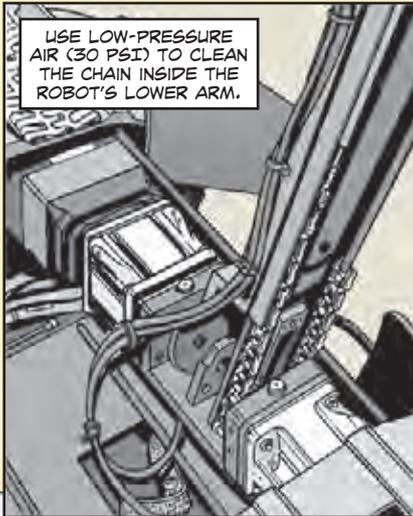
PS MORE

Drive Sprocket



YOU'LL FIND THE WRENCH IN A HANDY KEY SET THAT COMES WITH NSN 5120-01-473-9592.

Two-Stage Arm Chain



RANDOM BURNOUT

Spinning in the wind is one of the worst things that can happen to a vehicle's turbocharger when the engine is **not** running!

How come, you ask?

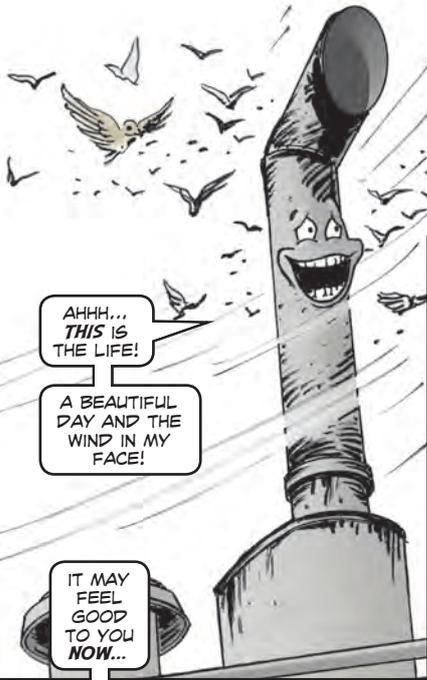
While transported on the back of a semitrailer, the exhaust pipe on this type of equipment can face directly into the wind. That means air is being forced down the exhaust stack and into the turbocharger during transport.

All that forced air causes the turbocharger impeller to spin with no lubrication. With the engine turned off, no oil is being pumped into the impeller's bearings. They burn out. The end result is a vehicle that is stuck at support or a DOL shop with a ruined turbocharger—big bucks and lots of downtime!

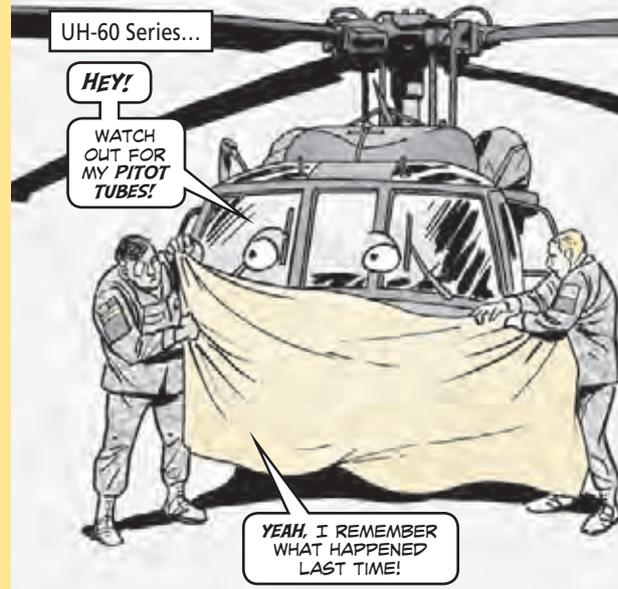
So how do you prevent turbocharger burnout?

There are two ways:

- Use duct tape, NSN 5640-00-103-2254, to tape over the exhaust stack. That way air doesn't get forced down the stack and into the turbocharger.
- Or have your mechanic loosen the clamp that holds the exhaust stack in place. Turn the stack so the opening faces towards the back of the trailer. Re-tighten the clamp.



IT MAY FEEL GOOD TO YOU NOW...



LOOK BEFORE YOU HOOK!

The Black Hawk nose cover is bulky and cumbersome. Putting it on can be a hassle. It can also be dangerous if you're not careful.

Pay attention to the pitot static tubes when covering the nose and windshield as you try to hook the main rotor pylon track opening.

When standing on the aircraft to secure the cover, some mechanics forget how close their face is to the opening of the pitot static tubes on both sides of the aircraft.

A sudden turn into the tube as you stretch to hook the cover could gouge out an eye, cause damage to your ear or severely cut your face. The opening of the tube is sharp and will cut you.

Watch where you are as you pull the cover over the windshield and make sure your face does not bump into the tube opening.



ALSO...

I NEED SOME MORE ZETA II HELMET LINERS, I GUESS I'LL JUST HAVE TO ORDER THEM BY PART NUMBER AGAIN.



NOT ANYMORE, SOLDIER! THOSE LINERS NOW HAVE NSNs.

THAT'S TERRIFIC!



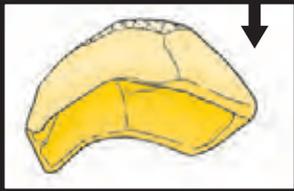
HELMET LINERS NOW HAVE NSNs

ALSO SHOPS, ON PAGES 35-36 OF PS 679 (JUN 09), WE TOLD YOU TO ORDER ZETA II HELMET LINERS BY PART NUMBER FOR THE AIRCREW INTEGRATED HELMET SYSTEM (AHS) UNTIL NSNs WERE ASSIGNED.

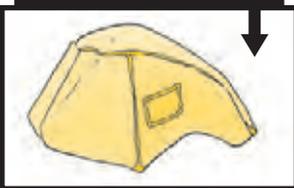
GOOD NEWS! NSNs ARE NOW AVAILABLE. YOU CAN ORDER THEM FROM THE LIST BELOW.

Zeta II Part Number	NSN 8415-01-580-	Size	Thickness
9A-0015-101	5456	XS & XXS	1/4-in
9A-0015-102	5460	XS & XXS	3/8-in
9A-0015-103	5465	XS & XXS	1/4-in
9A-0015-104	5480	XS & XXS	5/8-in
9A-0016-101	5484	S & M	1/4-in
9A-0016-102	5489	S & M	5/8-in
9A-0016-103	5492	S & M	1/2-in
9A-0016-104	5494	S & M	5/8-in
9A-0017-101	5498	L	1/4-in
9A-0017-102	5499	L	3/8-in
9A-0017-103	5500	L	1/2-in
9A-0017-104	5859	L	5/8-in
9A-0018-101	No NSN Yet	XL	1/4-in
9A-0018-102	No NSN Yet	XL	3/8-in
9A-0018-103	No NSN Yet	XL	1/2-in
9A-0018-104	No NSN Yet	XL	5/8-in

Order Super Comfort Liner...



...or Zeta II Liner...



...to replace Thermo Plastic Liner



AND IF YOU *STILL* NEED THE SUPER COMFORT LINERS (SCL), ORDER THEM FROM THE MANUFACTURER...



Mark Jones
Gentex Corporation
324 Main Street
Simpson, PA 18407
Tel: 570-282-8504
Fax: 570-282-8555
Email: mjones@gentexcorp.com
Web: <http://www.gentex.com>

NO NSNs HAVE BEEN ASSIGNED YET, BUT YOU CAN ORDER THEM USING THE PART NUMBERS IN THE FOLLOWING CHART...



Super Comfort Liner Part Number	Size
02D11531-8	XXS
02D11531-9	XS
02D11531-10	S
02D11531-11	M
02D11531-12	L
02D11531-13	XL

ALSO TECHS, MAKE SURE YOU PERMANENTLY MARK THE ZETA II AND THE SCL LABELS WITH THE MONTH AND YEAR THE LINER IS INSTALLED.

FOR THOSE "UNIQUELY-SHAPED" AVIATOR HEADS, THE ZETA II AND SCL LINERS ARE A BETTER FIT THAN THE OLD MODELS.



AGSE...

WHEN I SAY "DRAW", I DON'T MEAN PICTURES!

NSNs FOR HOLSTER KIT

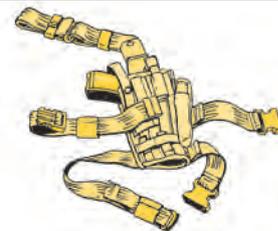


The air warrior's primary survival gear carrier (PSGC) comes with a holster kit.

Here are the NSNs for the holster assembly's components:

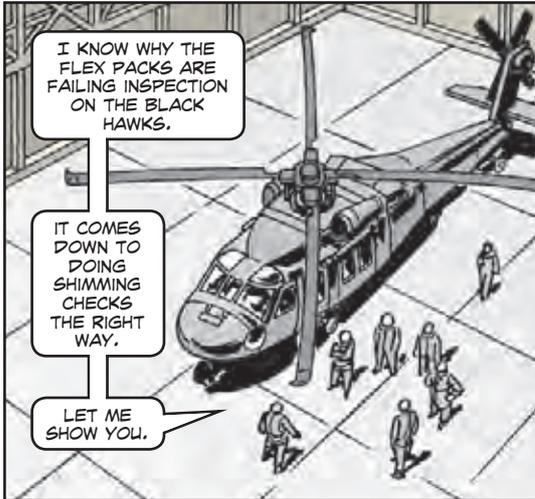
Item	NSN
Universal holster assembly	1095-01-550-3913
Universal holster	1095-01-550-3883
Thigh-mount platform	Order by P/N, 0EYB3 LBT 6099B through GSA Advantage
4-inch extender	1670-01-550-5338
6-inch fixed thigh extender	8465-01-559-1702
Shoulder harness	8465-01-559-1707
Magazine pouch	8465-01-559-1716

Order holster by entire assembly or by individual parts



DRIVE SHAFT SHIMMING

CHECK DONE RIGHT?



Dear Sergeant Blade,

While out in the field, I spent days helping out with re-shimming the flex pack on a Black Hawk, and some thought the oil cooler mounts were out of alignment. I noticed the flex packs failed their last inspection. When I pointed out the correct way to do shimming checks, some disagreed. When I performed the procedure correctly, all the flex packs that failed then checked out OK.

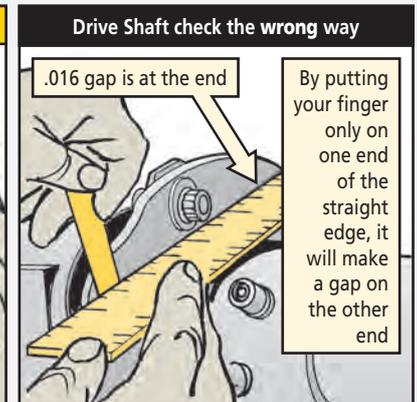
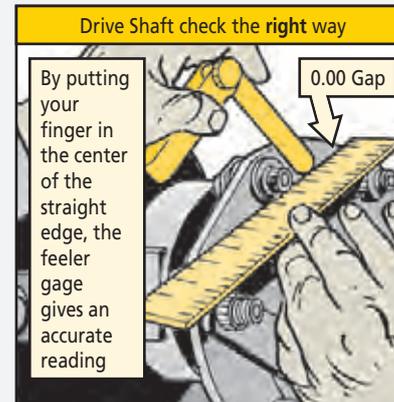
Here's the long and short of it: WP 0700 00 of TM 1-1520-237-23-7 for the UH-60A/L and WP 0656 00 of TM 1-1520-280-23-7 for the UH-60M tells you to do a shimming check, but it doesn't tell you *how*. This can result in it being done wrong, which results in multiple shimming check failures.

To avoid re-shimming flex packs unnecessarily, here's the solution. Step 3 of WP 0700 00 (UH-60A/L) and WP 0656 00 (UH-60M) tells you what to do to get the right reading when using a feeler gage, NSN 5120-01-335-1666, and a straight edge. A good tool to use as a straight edge is a steel machinist rule (6 inch), NSN 5210-00-971-8827. (An alternate straight edge is the machinist rule, NSN 5210-01-335-9236.) However, as noted above, the *how* is not given.

Some mechanics place the straight edge along the flange surface and the flexible coupling while holding the straight edge by either end; then try to measure the deflection gap with the feeler gage. The problem is that placing too much pressure with your finger at either end of the straight edge creates a gap and gives an erroneous reading with the feeler gage.

To do the check right, place your finger in the middle of the straight edge. You'll get a better reading with the feeler gage.

Do the test and inspection like so:



Charles Pope
AMCOM LAR
Afghanistan

Dear Mr. Pope,

Sounds like you've got a good one here. One small adjustment—like where you put your finger—can really make a big difference in preventive maintenance.

"Rotor"
Blade

All Aircraft...

STEPS, WALKWAYS AND HANDHOLDS



GOING TOP-SIDE ON THIS WORKHORSE IS TOUGH!

ONCE YOU LEARN WHERE TO PUT YOUR HANDS AND FEET, IT'S A NO-BRAINER!



Use Kiowa Warrior steps to go topside



Use one foot and one hand to go topside on Chinook

YOU NEED TO KNOW WHERE TO PUT YOUR HANDS AND FEET AT ALL TIMES WHILE MOUNTAIN CLIMBING OR HIKING. A SLIP THERE CAN HAVE PERMANENT CONSEQUENCES.

THE SAME APPLIES FOR YOUR AIRCRAFT. NOT KNOWING WHERE YOUR AIRCRAFT HANDHOLDS AND STEP ZONES ARE CAN HURT YOU AND YOUR AIRCRAFT TOO, ESPECIALLY WHILE GOING TOPSIDE AND WHEN COMING BACK DOWN.

SO IF YOU'RE NOT FAMILIAR WITH YOUR AIRCRAFT STEPS, MAINTENANCE PLATFORMS, HANDHOLDS AND WALKWAYS, DO SOMETHING ABOUT IT! CHECK OUT YOUR TMS AND IETMS TO BRUSH UP. AND CHECK OUT SOME SNAPSHOT VIEWS TO SEE HOW TO GET AROUND YOUR AIRCRAFT.

PS Magazine Index No. 67, 2011

Subject	Issue/Pg	Subject	Issue/Pg
AIR CONDITIONERS		Door window security	708 22
FDECU--Proximity switch PN correction	700 44	Floor plate seal, use strap to break	701 39
AIRCRAFT ARMAMENT SUBSYSTEMS		Landing gear shock strut tool	703 36
M260/M261 rocket launcher PM	707 22	Maintenance, take your time	701 37
AIRCRAFT, GENERAL		No. 1 inlet particle separator plug	700 35
Advanced composites information	707 22	Oil filter flow valve positioner tool	707 25
AN/APR-39 processors turn-in instructions	706 24	Shock strut inspection, cleaning, lubing	706 25
Army battery vs. Navy battery	698 38	Spindle horn removal	699 38
CCAD report card for quality control	708 26	Step areas, use to prevent damage	705 21
Chock blocks NSN	699 61	UH-60A--Nose compartment seal	701 36
Condition code tag, fill completely	704 25	UH-60A/L--Stabilator amplifier replacement	698 35
Electro-optic missile sensor (EOMS) caps	699 39	ALARM, CHEMICAL	
Environmental hotline	704 23	M22 ACADA/M8--Turn-in procedure	702 26
Fire extinguisher tags, safety wire, charging	703 35	AMMUNITION	
JATS aviation tool set now available	709 35	Ammunition Multimedia Encyclopedia site	708 36
Safety is a part of PM	704 62	MLRS ammo: safe handling & storage	709 40
TC 3-04.7 for two-level maintenance	706 23	SRTA safety	705 38
Troubleshooting, importance of	707 21	ANTENNAS, GENERAL	
Warnings, cautions and notes in TMs	704 26	FM 3-04.508 replaced by TC 3.04.72	702 39
AIRCRAFT GROUND SUPPORT EQUIPMENT		ARMORED SECURITY VEHICLE, M1117	
Chock blocks NSN	699 61	Evaporator coil NSN	701 61
Low-level maintenance platform PM	709 22	Fuel transmitter NSN	698 60
Maintenance stand safety issues	705 26	Hawker Armasafe battery approved for use	701 61
SATS--New tug for towing aircraft	709 23	LED spotlight replacement	698 15
UMARK sling defects	703 38	Side door foothold tripping	704 13
AIRCRAFT LIFE SUPPORT EQUIPMENT		TM identification, download	705 16
ALSET-400 equipment tester	704 61	Training web site	706 60
AN/PRC-90--No repair, disposal turn-in	702 45	Unserviceable assets needed for turn-in	702 12
AN/PRC-112/C/D--No repair, turn in	702 45	Upper rear door, open and close carefully	703 15
AIRCRAFT TOOLS		ARTILLERY EQUIPMENT	
Tool kit NSNs	706 43	M2 Aiming Circle--Turn in unserviceables	704 42
AIRCRAFT, AH-64 APACHE		AVLB, M60/M48	
30mm turret hydraulic hose rub fix	704 24	Antenna, remove before retrieving bridge	701 03
Axis A oil nozzle needs protection	700 38	Cables damaged by water in hull	699 09
Exhaust covers & streamers, don't tie together	706 26	Hydraulic line QD coupling caps	700 08
Generator, use install/removal tool	708 25	Tie rod ends, loose hardware	700 07
Nose gearbox blocker plate removal	699 35	AWARDS	
SSU hit by M4 rifle mount	702 38	2011 Combined Logistics Excellence Awards	705 54
SSU hit when removing co-pilot's seat	707 26	BACK COVER	
Step areas, use them to prevent damage	705 21	Battery drain, use master disconnect switch	700 62
AIRCRAFT, CH-47D/F, CHINOOK		BRRR! (cold weather vehicle tips)	708 62
Aft landing gear swivel lock, disengage to tow	702 36	Can't schedule breakdown, so schedule PM	705 62
Aft rotor pylon step (ARPS) details	699 36	Cap 'Em! (lines, tubes and fittings)	709 62
Gloves require caution when climbing	698 36	Don't Forget Your Safety Goggles	707 62
AIRCRAFT, OH-58D, KIOWA		PM + TM = Success	706 62
Air induction cowling traps FOD	705 24	Roadwheel hubs, test for heat	701 62
Doors & compartments, go easy when opening	705 25	Safety is a part of PM	704 62
Exhaust pillow, remove before flight	704 22	Tool kit hand receipts online	699 62
Ground handling wheels installation	707 24	Without Commo PM, You Haven't a Prayer	698 62
Skid cross tube, add non-slip paint for safety	708 24	BACKHOE LOADER	
AIRCRAFT, UH-60, BLACK HAWK		Turbocharger priming during startup	703 40
ALQ-144A/C, watch when straddling rotor	701 38	BATTERY, HAWKER	
Axis A oil nozzle needs protection	700 38	Cold weather testing	708 16

Subject	Issue/Pg	Subject	Issue/Pg
BATTERY, LEAD-ACID		M113A2--Steering linkage cotter pin	701 60
Battery acid NSNs	706 45	M113A3--Tow bar parts	706 09
Battery box liner	702 17	M113A3--Turbocharger guard screen	705 06
Battery box liner	706 45	Final drive, check weekly for T150 track	701 07
Battery drain, use master disconnect switch	700 62	Ramp hydraulic reservoir level check	701 08
Testers, chargers and disposal info	707 14	Ramp surface nonslip coating	707 06
VRLA battery charging, testing	700 10	CBRN EQUIPMENT	
BATTERY, NON-RECHARGEABLE		Bio-sampling kit, assay panel NSNs	698 46
Lithium sulfur dioxide--Handling, discharging	698 40	CBPS shelter--Hydraulic overflow container	698 47
Packaging, keep on or remove for storage?	702 42	CBRN room checklist	705 42
Refrigerate for storage?	702 44	JACKS website for CBRN alerts	709 47
SOCI, how to read	699 44	M20/M20A1--PMCS, training	703 26
BATTERY, RECHARGEABLE		M33/M33A1 riot control disperser obsolete	708 44
Chargers, how to use, cautions	701 40	M48A1 filter, careful when opening	708 43
Packaging, keep on or remove for storage?	702 42	On-hand equipment list	700 45
PP-8481B/U--Software update needed	700 42	Selling CBRN equipment a bad idea	708 43
PP-8498/U SPC--Software updates	698 43	Training video, gas chamber exercises	707 44
Refrigerate for storage?	702 44	CLOTHING	
Storage, long-term	699 43	CIF POC list	706 60
Tactical high speed data network charger	700 44	FR ACU-P--How to wash	706 52
BATTLE DAMAGE AND REPAIR (BDAR)		FR ACU-P--Protects against insects	709 55
Emergency field kit NSNs	699 47	OCIE guidance for USAR	699 54
BINOCULARS		Tan coverall NSN correction (697-40)	704 61
M24--L3 version replacement items	700 60	COMMERCIAL CONSTRUCTION EQUIPMENT	
BRIDGE BOAT, TWIN-JET		780T Paving Machine--Parts help	698 60
MK2--Master power switch, wet batteries	709 20	Battery acid NSNs	706 45
MK2--No-step areas	709 21	Battery box liner	706 45
CAMOUFLAGE		POC contact info	703 43
Nets go from MTOE to CTA	700 55	Stuck in mud during cold weather	708 45
CARBINE, M4-SERIES		Tire and wheel assembly NSNs	703 41
AAL items added	709 44	Tire tread direction	705 46
BFA differences, NSNs	698 25	COMMUNICATIONS EQUIPMENT	
BFA's not interchangeable	699 21	Batteries, refrigerate for storage?	702 44
Bolt gas rings check, staggered	700 22	Battery packaging, keep on for storage?	702 42
BUIS, don't remove to install optic sights	707 37	Cable, connector corrosion prevention	701 46
Camouflage paint now OK	708 37	CAISI--Description, how to use	698 54
Cleaning cable, how to use	708 35	Electronic warfare performance tips	699 40
Enhanced sliding buttstocks defective	704 35	Loop clamp NSNs	701 43
General PM	701 27	Without Commo PM, You Haven't a Prayer	698 62
Loose barrel, correct way to check	706 37	COMPUTERS & SOFTWARE	
M68 CCO--Spacer & longer screws needed	702 23	LIS, packing for transport	702 56
M862 plastic round practice bolt NSN	698 24	Monitor anti-glare filters	700 57
Magazine inspection tool	700 21	Monitor screen wipes	700 57
Store set on SEMI with hammer forward	709 43	MSD-V3--Fielding soon	700 47
CARRIER, AMMO, M992A2		MSD-V3--Turn in older versions	705 39
Air cleaner box clean-up	707 08	COMSEC EQUIPMENT	
Final drive U-joint lube splatters fire sensor	705 09	AN/PYQ-10(C)--TM, website, help desk...	700 40
Fuel line QD halves stay together	702 03	COMSEC CCI, where to ship	706 46
U-joint bolts must be safety-wired	709 08	CONTAINER HANDLER, RT	
CARRIER, PERSONNEL, M113 FOV		Ether canister, fuel/water separator, starter	708 46
Bilge pump not for removing hull water	698 05	CONTAINERS	
Blower housing driveshaft tool	702 08	Container calculator	704 60
Fuel cap PM	703 06	MIL-HDBK-138B, container inspection	704 60
M113A2--Fuel cap NSN	698 60	CONTINUITY	
		60 Years! A Creative Celebration (w/Survey)	703 27

Subject	Issue/Pg	Subject	Issue/Pg
Aunt Bessie's PM Tale!	699 27	DA Form 5984-D--Lamination allowed?	698 51
Dueling Dragons	709 27	ULLS-G correction (698-51)	704 59
Let "PM" Prevail	707 27	FORWARD REPAIR SYSTEM, M7	
M16-series rifle, M4/M4A1 carbine--PM	701 27	3-valve manifold NSN fix	706 61
Machine gun mounts	702 27	New tools added	708 39
Milkshake Conversation	706 27	FOX CBRN VEHICLE	
Milkshake Conversation apology	708 60	Hydraulic fluid, how to find?	705 40
PM Court	705 27	Slat armor on rear door precaution	700 46
PM for Easy Company (w/SGT Rock)	700 27	GENERATORS, GENERAL	
PM Olympics	708 27	Load testing: necessary or not?	702 40
Sign of Strength (suicide prevention)	704 27	GENERATORS, LARGE	
CORROSION		30-, 60-kW TQG--Battery NSNs	700 43
Cable, connector corrosion prevention	701 46	GENERATORS, SMALL	
CRANES		5-, 10-, 15-kW TQG--Battery NSNs	700 43
22-ton--Cooling fan bolts loosening	698 49	GLOBAL POSITIONING SYSTEM (GPS)	
DECON		DAGR--Warranty return form info	699 42
M12-Series--Vinyl cover NSN	698 48	GRENADE LAUNCHER, M320	
M12A1--Fuel injector pump needs exercise	701 25	Wrench for mounting adapters, sight mount...	700 23
M17-Series--Exercise regularly	701 24	GRENADE LAUNCHER, SMOKE	
M17A3--Spare/repair parts assistance	698 48	Turn-in needed for Reset	706 60
M17A3, A/E32U-8--Super air filters, cleaning	701 22	GUN, MACHINE	
M26--3,000-gal blivet inflatable collar	698 48	Barrel ID with dog tag	699 23
M26--Decalcity with CLR	708 44	M2--AN/PAS-13 sight mounting	703 21
DEUCE		M2--AN/PAS-13 thermal weapon sight mods	702 22
Blade lower pivot pin exercise	708 47	M2--Back plate shoulder screw safety wire	700 26
EDITORIAL		M2--BFA differences, NSNs	698 25
Bright Isn't Always Beautiful	701 01	M2--Cover latch, file to fit	706 39
Bradley Engine Ground Hop Safety	700 01	M2--Sear helical spring, before PMCS check	703 23
Celebrating Relevance	703 34	M240--AN/PAS-13 sight mounting	703 21
Changes Won't Happen Unless You Change	709 01	M240-Series--BFA differences, NSNs	698 25
Choices	699 01	M240, M249--Gas system carbon cleaning	707 40
Don't Miss Out! Read PS Online	698 01	M240, M249--Gas system scraper needed	701 20
Give Equipment a Good Once-Over	707 01	M240B--Rail kit installed too tight	704 43
Gotta Have Your TM to Perform Good PM!	704 01	M240H, M249--Loading and clearing	705 35
Haste Makes Waste	708 01	M242--Cleaning, assembly, PMCS...	704 36
LOGSA Cdr on 60th anniversary	703 01	M249--Barrel, ID both for receiver	707 39
Missing Link? Did You Blink?	702 01	M249--BFA differences, NSNs	698 25
PSSSSST...Pass It On! (PS Magazine)	706 01	M249--BFA's not interchangeable	699 21
Times Have Changed? Not Really!	705 01	M249--Bipod feet direction	709 44
ELECTRICAL, GENERAL		M249--MWO 9-1005-201-50-1, -30-6 check	700 24
Bright Isn't Always Beautiful	701 01	M249--Standard barrels, 2 required	700 25
EXPLOSIVE ORDNANCE DISPOSAL (EOD)		Mount components	702 27
Explosives safety conference	701 60	MK 19--AN/PAS-13 sight mounting	703 21
FED LOG		MK 19--CROWS can damage receiver slots	706 35
Terminal items, check can point (689-55)	708 60	MK 19--Feed throat, no NSN available	700 20
FIRE EXTINGUISHERS		MK 19--Mount safety-proofing	706 36
Hand-held needed for FMC vehicle?	707 50	MK 19--Secondary drive lever adjustment	699 24
FORKLIFTS		MK 19--Top cover, who can remove?	704 40
6K VRRITFL--Central lubrication system	704 60	HARDWARE	
ATLAS--Central lubrication system	704 60	Bags, self-sealing	703 58
M4K--Hydraulic hoses, leaks	701 50	Extension light NSNs	700 44
FORMS, GENERAL		Glue NSNs	701 61
DA Form 2028--Submitting info	706 58	Loop clamp NSNs	701 43
DA Form 2404--Modifications allowed?	707 52	Penetrating fluid NSNs	703 58

Subject	Issue/Pg	Subject	Issue/Pg
Zipper lube NSN	701 11	AEPS website retiring	703 60
HAZARDOUS MATERIALS & WASTE (HAZMAT)		Ammunition Multimedia Encyclopedia site	708 36
AMCOM environmental hotline	704 23	AMTAS, MENS-E, LINS database websites	708 61
Cleanup kits and drip pans	709 52	JACKS website for CBRN alerts	709 47
HEATER, PERSONNEL		Missing Link? Did You Blink?	702 01
A-20--Startup different than other heaters	698 08	JSLIST	
FDCEU--Proximity switch PN correction	700 44	Training suits available	701 25
HEATER, WATER		KITCHEN EQUIPMENT	
AWH 400--Features, TM, help	701 48	Containerized Kitchen--NSNs for parts fixed	707 61
HELMETS, AVIATION		Containerized Kitchen--Packing tips	709 50
HGU-56P--Chin strap/pad NSNs	703 60	Field sanitation SOP	699 61
HGU-56P--Commo earplug wiring flaw	700 37	MBU-V3--Tool kit NSN	698 61
HGU-56P--Commo earplug correction (700-37)	705 22	LASER RANGEFINDER	
HGU-56P--MP3/iPod, no splicing	698 37	AN/PED-3/3A--Repair program started	703 22
HGU-56P--Repair w/parts from other helmets	700 36	LOADER, SCOOP-TYPE	
HGU-56P--Visor track cleaning	701 35	Flywheel housing access cover gasket NSN	699 48
IHADSS--MP3/iPod, no splicing	698 37	MW24C--Brake actuator air chamber clamp	705 47
IHADSS--Packing accessories	706 22	MW24C--Defogger fan NSN	698 60
IHADSS--Paint, packing, ICS cord, no seat	709 26	MW24C--Oil cooler, air cleaner, cold weather	708 20
HELMETS, GROUND		LOGISTICS ASSISTANCE	
ACH--Cleaning, pad replacement	704 48	SDDC help desk	699 54
CVC--Headset moisture prevention	707 07	LOGISTICS AUTOMATION	
HIGH MOBILITY ENGINEER EXCAVATOR (HMEE)		Supply databases now searchable	699 60
Mirror housing melted by exhaust pipe	703 41	LOGISTICS MANAGEMENT	
HIGH MOBILITY MATERIAL HANDLER (HMMH)		2011 DLA handbook available	705 60
Engine shutdown procedure	709 18	Camo nets move from MTOE to CTA	700 55
HOWITZER, GENERAL		DA Form 5984-D--Lamination allowed?	698 51
DA Form 2408-4, keep up to date on AEPS	700 19	GCSS-Army materials	705 60
GLPS--Keep dry to prevent damage	704 39	LIA website explains CLOE	703 53
PMCS, DA Form 2408-4 important	698 23	LIS, packing for transport	702 56
HOWITZER, SP, M109A6 PALADIN		LIW 360° logistics readiness dashboards	702 52
Air cleaner box clean-up	707 08	MMIS, compliance reporting tool for SOUMs	708 60
Carbon monoxide danger in cold weather	708 09	OCIE, some can come off property book	707 58
Copperhead extractor storage info	699 08	OSMISWEB, weapon system parts info	699 53
Firing pin NSN correction	706 60	PSCC Packaging & Transportation Division	708 56
Fuel cap gasket check	707 09	Property accountability video	704 61
Fuel line QD halves stay together	702 03	Property book LIN problems	698 52
Slip ring cleaning	701 09	Property book LIN problems, part 2	699 56
U-joint bolts must be safety-wired	709 08	Property book LIN problems, part 3	700 56
HOWITZER, SP, M109-SERIES		Property book LIN problems, part 4	701 56
Air cleaner box clean-up	707 08	Property book LIN problems, part 5	702 60
Copperhead extractor storage info	699 08	Reconciliation tool now available	701 52
HOWITZER, TOWED, M119A2		SAMS-E help desk	704 52
Breech block/breech serial number matching	708 10	SAMS-E help desk correction (704-52-53)	707 61
WTR vs GAA for lubing, using -10 TM	700 09	SPIDERS logistics tool	709 58
HOWITZER, TOWED, M77A2		TI Portal for single stock fund middleware	708 57
CSD panel, homemade guard for screen	709 08	MAINTENANCE MANAGEMENT	
Gun tube life EFC count	703 05	AEPS network info	701 59
Round stuck, preparation for removal	698 07	AR 750-1--Maintenance terms updated	698 57
Spanner wrench, accumulator & buffer seals	700 61	Expert ASL team info	699 58
INTERCOM SETS		MEL FAQ price calculation fix (695-58-60)	702 54
AN/VIC-3--Address switch cover replacement	706 49	MENS-E database for non-std equipment	709 57
INTERNET		PQDR website and POCs	708 58
Adobe Reader X problem	703 61	SAMS-E labor rate input	700 58

Subject	Issue/Pg	Subject	Issue/Pg
MASK, PROTECTIVE		Celebrating Relevance	703 34
M40-, M42-series--Fit solutions	709 48	Don't Miss Out! Read PS Online	698 01
M40-, M42-series--Guard/Reserve PMCS	708 41	LOGSA Cdr on 60th anniversary	703 01
M40-, M42-series--M41 PATS for testing	708 42	Ordering PS	704 56
M40-, M42-series--Nosecup looseness check	705 41	PSSSSST! Pass It On!	706 01
M40-, M42-series--Quick-doff hood, keep one	706 44	VCU library of early PS issues	699 60
M-GATOR		PUBLICATIONS	
Parts list, POCs for help	704 44	Adobe Reader X fix	705 60
MINE CLEARING EQUIPMENT		Adobe Reader X problem	703 61
Husky IVMMD--Front/rear module couplings	699 16	APD website improved	708 60
MISSILE, AVENGER		AR 700-16--Revision download	700 61
Canopy protection tips	709 36	AR 750-1--Maintenance terms updated	698 57
Coolant reservoir protective collar	701 26	AR 750-6--Revision download	707 51
Covers, ECU parts, cryogenics zipties	699 19	ATTP 4-33 released	706 60
FLIR and SVLM caps, non-skid strips	703 18	CALL handbook for setting up CSDP	707 60
MISSILE, JAVELIN		Cold weather publications	698 60
CLU exercise, storage case, batteries	702 24	Deployment tool book available online	703 56
MISSILE, PATRIOT		ETM labels updated	707 61
ECU, launcher cable securing	703 16	ETM labels updated (with illustration)	709 61
Launcher, AN/MPQ-53 radar, antenna, ECS...	698 19	FM 3-04.508 replaced by TC 3.04.72	702 39
Trailer tips: brakes, lights, hook-up to truck	709 39	HIP Times website	699 61
MISSILES, GENERAL		MIL-HDBK-138B, container inspection	704 60
AMCOM environmental hotline	704 23	Ordering PS & other pubs	704 56
MLRS		TMs, binding to prevent loose pages	708 59
Ammunition: safe handling & storage	709 40	TRADOC Pam 525-4-1--Revision download	700 61
Roadwheels, steel vs aluminum	699 05	RADARS	
MOLLE		SM-756/APR-44--Radar simulator turn-in	698 44
Rucksack lifting, packing, positioning	703 48	RADIAC EQUIPMENT	
MORTARS		AN/PDT-77--Parts manual additions	709 49
DA Form 2408-4, keep up to date on AEPS	700 19	AN/UDR-13--Software beeping problem	705 61
Lubrication important	703 25	JCBRAWM--Calibration date change	705 61
M95 MFCS--35W9 cable could be bad	706 40	RADIO SET, GENERAL	
M120/A1, M121--Serial # check, bore dia...	707 38	AN/PRC-90--No repair, turn in for disposal	702 45
PMCS, DA Form 2408-4 important	698 23	AN/PRC-112/C/D--No repair, turn in	702 45
PACKAGING		RADIO SET, SINGGARS	
Strapping and sealing kits	699 49	Excess turn-in instructions	701 44
PAINTING		Reset turn-in procedures	700 39
Yellow safety paint NSN	702 13	Vehicle amplifier adapter, 3 tips	701 42
PERSONAL EQUIPMENT		RAILROAD EQUIPMENT	
Combat eyewear info, NSNs	702 46	Tiedown assembly, correct method	699 48
OCIE guidance for USAR	699 54	REELING EQUIPMENT	
PISTOLS		RL-31, RL-39--Expendable items now	699 41
M9--Inspection checklist for armorers	700 26	RIFLE, M14/M21	
M9--Trigger pull test required	703 24	M14--Upgrade to enhanced battle rifle	702 21
POSITION AZIMUTH DETERMINING SYSTEM (PADS)		RIFLE, M16-SERIES	
GLPS--Keep dry to prevent damage	704 39	AAL items added	709 44
POWER DISTRIBUTION		BFA differences, NSNs	698 25
PDISE--How to order, components	705 58	BFA's not interchangeable	699 21
Power grid training course	707 54	Bolt gas rings check, staggered	700 22
PS MAGAZINE		BUIS, don't remove when installing optic sights	707 37
60 Years! A Creative Celebration w/Survey	703 27	Camouflage paint now OK	708 37
Adobe Reader X fix	705 60	Cleaning cable, how to use	708 35
Back issues, how many to keep on hand	707 59	General PM	701 27
		Hybrid buttstock kit authorized	703 24

Subject	Issue/Pg	Subject	Issue/Pg
Hybrid butstock photo correction (703-24)	707 37	Engine shutdown procedure	709 18
Loose barrel, correct way to check	706 37	Hydraulic tank, check level, leaks	700 52
M68 CCO--Spacer & longer screws needed	702 23	Throttle linkage, fuel return line leaks	700 54
M862 plastic round practice bolt NSN	698 24	SUPPLY, GENERAL	
Magazine inspection tool	700 21	CAGE code 16236 invalid	704 61
Store set on SEMI with hammer forward	709 43	CA Notes website for B16 cancellations	698 45
ROBOTS, GROUND		CECOM CA reject notes online	703 60
Ralon 3B--Track tension instructions	707 18	DLA offers green products	709 60
ROCKET LAUNCHER, M260/M261		ETID system for turn-in	706 55
Contacts, bad tubes, cleaning, loading tool	707 22	OCIE guidance for USAR	699 54
SAFETY		Supply databases now searchable	699 60
Boresighting small arms, use NVGs	700 48	TANK, M1-SERIES	
Bradley engine ground hop safety	700 01	Ammo door hook latch & housing assy	698 02
Cadmium exposure protection	702 10	Battle override valve knob NSN change	699 03
Cold weather quiz	708 52	Bustle rack, no flammables	705 04
Combat eyewear info, NSNs	702 46	Combustor cover studs	703 02
Extinguisher needed for FMC vehicle?	707 50	Engine compartment wire tie NSNs	699 61
SOUW websites	706 61	FBCB2 antenna cover	703 03
Yellow safety paint NSN	702 13	FBCB2 CPU latch fix	705 04
SATELLITE COMMUNICATION		Gun mount exerciser, right position	701 04
AN/TSC-156--Parts shortage	701 45	Hatch locks	704 05
SCRAPER, EARTHMOVER, 621B		Loader's tray peeling	705 03
Air filter for cab, cleaning	700 51	M1A1--2W301 wiring harness connector plug	706 61
Battery box pads	704 47	M1A1--Fire control & turret drive NSNs	708 60
Cab air flow filter	709 19	M1A1--Improved azimuth/elevation servo	706 61
SHELTERS		M1A1--Turret race ring changes	709 05
CBPS--Hydraulic overflow container damage	698 47	M1A2 SEP--CROWS tarp added to BII	703 60
Expandable--Securing for transport	706 50	M1A2 SEP--CROWS tarp added to BII	706 04
SHOP EQUIPMENT		MILES hookup information	709 02
M1022A1 Dolly Set--Tie-rod parts	704 60	PM Court (V-pack, track tension, cleaning)	705 27
SIGHTS & SCOPES		PMCS, DA Form 2408-4 important	698 23
AN/PAS-13--Mounting on M2, M240, MK 19	703 21	Race ring lubing, inflatable seal	699 04
Lithium batteries beat alkaline	701 20	Recoil cam, set for cold weather	708 08
M68 CCO--Spacer needed for M16A4/M4	702 23	Roadwheel mount for turret	702 02
M68 M4S--Battery case, repair parts	705 36	Roadwheel mount for turret correction (702-2)	704 61
SLAVE CABLE		Track tension, coast before adjusting	700 03
NSNs, repair info	703 08	Transmission service brake remote control lever	707 04
SMALL ARMS		TENTS	
Ammunition Multimedia Encyclopedia site	708 36	Stake NSNs, wood and steel	703 52
Ammunition peculiar equipment (APE)	704 41	Stakes, types and how to use	705 48
BFA differences, NSNs	698 25	TIRES	
Boresighting, use NVGs	700 48	HMMWV bias tires obsolete	708 60
Dehumidifier for arms rooms	701 18	Tire assembly repair program (TARP)	709 16
Dehumidifier, make sure it's working	706 38	Wheel assembly policy correction (697-10)	699 18
EST 2000 trainer info	705 36	TOOLS	
Gage calibration requirements	698 26	Aviation tool kit NSNs	706 43
Gaging requirements, where to find	707 35	Bar codes for inventory	706 41
Gaging TB on ETM website	706 39	Bolt cutter jaw replacement	708 40
M16 BFA used on M4/M249 a danger	705 38	Compressed gas cylinder program	699 51
Solvent tanks, when and how to use	707 36	Engraving not allowed	699 47
Target paster NSN	699 22	Engraving not allowed update (699-47)	707 42
T.H.I.N.K. safety, part 2	699 26	Jack stand FAQ	704 07
SMALL EMBLACEMENT EXCAVATOR (SEE)		JATS aviation tool set now available	709 35
Drive shaft boot NSN	705 60	LED flashlight NSN	698 61
		Multipurpose tool, NSN & uses	700 50

Subject	Issue/Pg	Subject	Issue/Pg
Pressure washer TMs	708 40	M1070P1--Seat repair parts	701 17
Tool kit hand receipts online	699 62	TRUCK, 1 1/4-TON, CUCV	
Warranties often cover Marines	707 43	M1009--Brake pads NSN	698 61
TRACTOR, D7E/F/G		TRUCK, 1 1/4-TON, HMMWV	
D7G--Fan system PM	705 45	Air cleaner dust boot location, use	705 11
D7G--Hydraulic hose checks	703 44	Air filter canister retaining ring damage	701 14
D7G--Track adjustment	703 46	Bias tires obsolete	708 60
D7G--Transmission filler plug, breather valve	703 42	Engine oil pressure requirement revision	705 60
TRAILERS		Front clearance indicator light NSN	703 61
Cold weather maintenance, parking, wheels	698 16	Fuel solenoid diode assembly NSN	707 61
M105A3--Stabilizer support arm NSN	706 61	Fuel tank drainplug check	705 10
M149A2--Wheel bearing assembly NSN	704 60	Glow plugs, check in cold weather	708 14
M149-Series--Faucet/pipe freeze prevention	708 14	LED light NSNs	706 21
M989-Series HEMAT--Swapping base for A1	704 10	Load range D&E tire pressures	698 10
M989A1 HEMAT--Wheel assembly defective	702 14	M997/A1--A/C compressor belt NSN	698 61
M1082--Water collects on top of cover	698 13	M1151A1--FRAG 5 vs B-KIT doors	704 16
M1101--Master brake cylinder fill correction	702 20	M1165A1--Windshield NSNs	707 61
M1101, M1102--Cargo box replacement, MEL	705 15	RECAP--Support part NSNs	704 15
SATS--Registration numbers, finding	706 56	Turret leak fix	699 10
Tie-down (bungee cord) system NSNs	703 50	Turret tarp replacement NSN correction (699-10)	707 10
TRAILERS, SEMI		Up-armored--A/C air dryer filter NSN	698 61
M870A1--Decking kit NSN	705 61	Up-armored--A/C compressor failure	706 12
M871/A1--Rear suspension cracks	698 14	Up-armored--Cargo shell hatch bracket cracks	699 17
M871-series--Tire & wheel assembly NSNs	705 14	Up-armored--Condenser fan assembly	705 13
M871R-series--Wheel assembly, pneumatic	701 61	Up-armored--Spring NSNs	703 61
M871R-series--Wheel rim assembly NSN	701 61	TRUCK, 5-TON, GENERAL	
M872/A1/A2--Brake chamber dust cap NSN	700 60	Battery compartment bug invasion fix	700 18
M872A4--Dock bumper NSN	702 13	M934/A1/A2--Hand rail kit NSN	704 14
M872A4--Landing leg NSN	698 60	TRUCK, 5-TON, M939-SERIES	
M969A2--Fuel tanker engine	703 61	M929, M930 Dump--Bed PM	701 13
M1000--Rear support leg drain holes	702 16	M939/A1/A2--Axle access cover gasket NSN	705 61
M1000--Steering link bolt NSN	701 61	M939/A1/A2-series--GRS kit for LWS	706 21
TRAINING		M939/A1/A2-series--Wheel stud nut NSN	705 61
ATSTP traffic safety course	699 55	TRUCK, FMTV	
CAISI--Description, how to use	698 54	Air spring inflation info	707 11
CBRN training video, gas chamber exercises	707 44	Annual service kit NSNs	702 13
DAC distance learning website	709 46	Cargo cover care, repair	701 12
Deployed operations resource mgmt course	704 54	Gen III transmission turn-in	700 16
Explosives safety conference	701 60	HIP Times website	699 61
Explosives safety training	705 57	LTAS--Hydraulic brake converter	709 14
IEDES training precautions, TM	707 56	M1079--Cargo restraint net, interior	700 60
PBUSE training help	704 55	OGPK only on LTAS	700 17
Power grid training course	707 54	Steering gear cleaning & payload/tow limits	706 16
Rapport on-line language training program	701 54	Voltage regulator on 260-amp alternator	700 14
Rosetta Stone language training	700 58	TRUCK, HEMTT	
Sustainment Unit One Stop portal	703 59	A4 Models--Annual service kit NSNs	704 13
UTAP training for TACOM equipment	703 54	A4 Models--Brake kit NSNs	704 12
TRUCK, M915-SERIES		A4 Models--Crane load testing problems	707 12
Air filter NSNs	701 60	A4 Models--MAC NSN update	698 11
M917A1--Tailgate assembly ordering	708 61	A4 Models--Codes 1701 & 1707	704 11
M917A1--Transmission control heater switch	703 60	A4 Models--Spare tire strap NSN	705 17
TRUCK, M1070 HET		A4 Models--Wrecker crowbar location	698 61
Air duct hose cost savings	701 16	A4 Models--Wrecker electrical control box	699 61
DDEC III/IV engine conversion kit	698 60	Crane turntable lubing needs adapter kit	705 17
HIP Times website	699 61	Equalizer beam bushing inspection	700 13

Subject	Issue/Pg	Subject	Issue/Pg
GRS kit NSN	705 17	M-ATV--Window sealant NSN	703 60
HIP Times website	699 61	MaxxPro--A/C coolant hose fix	704 20
M978-Series--Fuel handling safety	707 46	MaxxPro--Batteries, do not mix	709 15
M978-Series--Ladder PMCS	709 13	MaxxPro--Gunner's platform parts	704 21
M978-Series--Purging, leaks, references	702 18	MaxxPro--Hood spring rubs air intake	705 18
M978-Series--Safety, extinguishers, static...	708 48	MaxxPro--Linear detector circuit board short	705 19
M978A4--Pump assembly w/motor NSN	700 60	MaxxPro Dash--Straight axle assembly NSN	709 15
M1120/A2--Corner lock stem NSN	705 17	MaxxPro Plus--Ambulance arm lift	700 61
Transfer oil substitute?	709 12	MaxxPro Plus--Gunner's hatch latch pin	708 18
TRUCK, PALLETIZED LOADING (PLS)		OGPK--Small arms firing safety	703 20
Crane turntable lubing needs adapter kit	705 17	RG31--TES-295 transmission fluid NSNs	703 61
Equalizer beam bushing inspection	700 13	RG32L CAT II Plus--Light bar kit NSN	709 15
GRS kit NSN	705 17	Rollover prevention	707 20
P1 Models--STE-ICE wiring harness rub	707 13	Service kit NSNs	708 19
PLSA1--Lubrication table changes	706 10	VEHICLE, RECOVERY, M578	
TRUCKS, GENERAL		Turn in all vehicles to DRMO/DRMS	700 61
Battery box liner	702 17	VEHICLE, RECOVERY, M88-SERIES	
Battery drain, use master disconnect switch	700 62	A1--Roadwheel relief valve clogging	701 05
Extinguisher needed for FMC vehicle?	707 50	A2--Intake vents, keep water away	702 07
Fluid levels, fire extinguisher, coolant, TMs	705 12	A2--Limit switches, don't disconnect	708 11
Parts protection from sand and dust	701 10	A2--Tow bar locking pin clips defective	698 06
TB 9-639 for passenger capacities	709 10	A2--Towing tips for M1-series tanks	702 06
Tie-down (bungee cord) system NSNs	703 50	Engine fire suppression system safety pin	706 03
VEHICLE, FIGHTING, M2/M3 BRADLEY		Spade lockpin cleaning, lubing	705 08
1W11 fire sensor cable, hands off!	698 03	VEHICLE, STRYKER	
AFES panel, don't kick	706 04	Air sentry hatch slat armor damage	699 02
Ammo box door latch	701 06	Boresight kit stem fix	699 61
Belly armor catches debris	702 05	C7 fuel distribution assembly leaks	707 02
Brake shaft inspection	709 06	Differential bolts, check for looseness	701 02
Commander's hatch latch PM	704 06	Fuel transfer line leaks	703 04
Engine ground hop safety	700 01	GRS bracket fix	706 02
Fuel cap NSN	698 61	HMS calibration	705 02
ISU decal NSN correction	701 61	Recovery lug shackle hardware position	702 04
ISU fan defogger, window cleaning	700 04	Startup procedure	704 02
ISU reticle brightness knob adjustment	700 06	Steering damper PM	708 02
M242--Cleaning, assembly, PMCS...	704 36	Water damage as solid, liquid and gas	708 04
Personnel heater needs semiannual service	708 06	VEHICLES, COMBAT	
PMCS, DA Form 2408-4 important	698 23	Battery box liner	702 17
Ramp & ramp door seal check	699 06	DA Form 2408-4, keep up to date on AEPS	700 19
Ramp chain connector hardware location	700 02	PMCS, DA Form 2408-4 important	698 23
Right angle fan drive grease on fire sensor	698 04	PMCS, explanation of different types	706 06
Roadwheels, steel vs aluminum	699 05	Roadwheel hubs, test for heat	701 62
Shutdown, turn off lights and radio	707 03	VEHICLES, GENERAL	
VEHICLE, MRAP		Air filter freezing	698 12
Caiman--A/C rear fan blower shorts	699 15	Battery box liner	702 17
Caiman--Door assist system battery NSN	705 61	Battery drain, use master disconnect switch	700 62
Caiman Plus--Differential carrier bolts check	701 15	Cold weather safety and PM	708 12
GRS adjustments	704 18	Extension light NSNs	700 44
Heat detector NSNs	709 15	VEHICLES, ROUTE CLEARANCE	
Lessons learned handbook	704 60	Rhino--Circuit breaker tripping problem	703 10
M-ATV--A/C system charge TM change	709 17	Rhino--Equipment support contacts	703 12
M-ATV--Battery disconnect switch	705 20	WELDING	
M-ATV--CV joint boot NSN	700 60	Compressed gas cylinder program	699 51
M-ATV--Floor mat safety	708 17	Welding wire NSNs	706 42
M-ATV--RPG net kits	706 18		

Buckle Up Radar for Travel

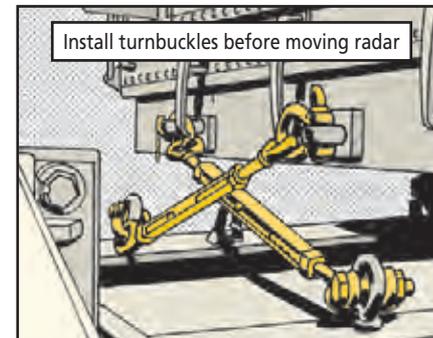
Dear Editor,

Everyone knows it's important to buckle up before you drive off in your car. That protects you in case of an accident.

The same principle applies to the Patriot radar if it's going to move out of its parking space in the motor pool. Without the travel turnbuckles connected from the radar to its trailer, the radar can actually twist on the trailer during travel and hit objects alongside the road. Huge damage can result.

So before you move your Patriot's radar, install the turnbuckles. You'll be glad you buckled up.

SSG Charles Wirth
HNB, 6th Bde
Ft Sill, OK



Editor's note: Buckle up, Patriot crews. And that includes your radars, too.

Small Arms... Flip Covers for ACOG

Dear Editor,

I noticed when you listed the repair parts for the ACOG sight in PS 671 (Oct 08), you left out the NSNs for the flip covers. Since they often disappear, I think it would be a good idea to list their NSNs, too.

Order the objective lens flip cover with NSN 6650-01-559-3862 and the eyepiece lens flip cover with NSN 6650-01-560-0133. They're listed on Page 4-4 of the ACOG's TM 9-1240-416-13&P.



SGT Augusto "Gus" Barreto-Mendez
Camp Blanding, FL

Editor's note: Good point, Sergeant. All the parts available for the ACOG are listed in TM 9-1240-416-13&P. It's on the ETM website:

<https://www.logsa.army.mil/etms/welcom1.cfm>

Mounting to MK93

I DON'T KNOW IF WE CAN REALLY WORK TOGETHER.

SURE WE CAN.

WE JUST NEED A GOOD ADAPTER!

Dear Half-Mast,

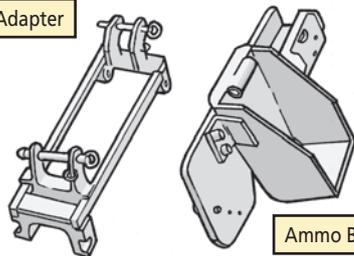
Can you mount an M249 or M240B machine gun to the MK93 mount? We can't find any information on that.

SFC T.M.

Dear Sergeant T.M.,

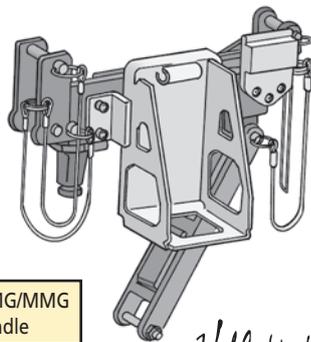
The M249 and M240B can be mounted on both the MK93 MOD 1 and MOD 2 with the MK93 adapter, NSN 1005-01-531-1676, and ammo bracket, NSN 1005-01-531-1666. The ammo bracket can hold either the 200-round metal 7.62mm ammo container or the 200-round plastic 5.56mm ammo container.

Adapter



Ammo Bracket

You can also mount the M249 and M240B on the M197 mount using the LMG/MMG mounting system, NSN 1005-01-553-0683, which is part of the AAL for the M197. The LMG/MMG holds a 200-round ammo box and provides a travel lock for pedestal- or vehicle-mounted weapons. It attaches to the weapons with two quick-release pins.



LMG/MMG cradle

Half-Mast

Remember, you can find almost all mount info in TM 9-1005-245-13&P, which is on the ETM site:

<https://www.logsa.army.mil/etms/welcom1.cfm>

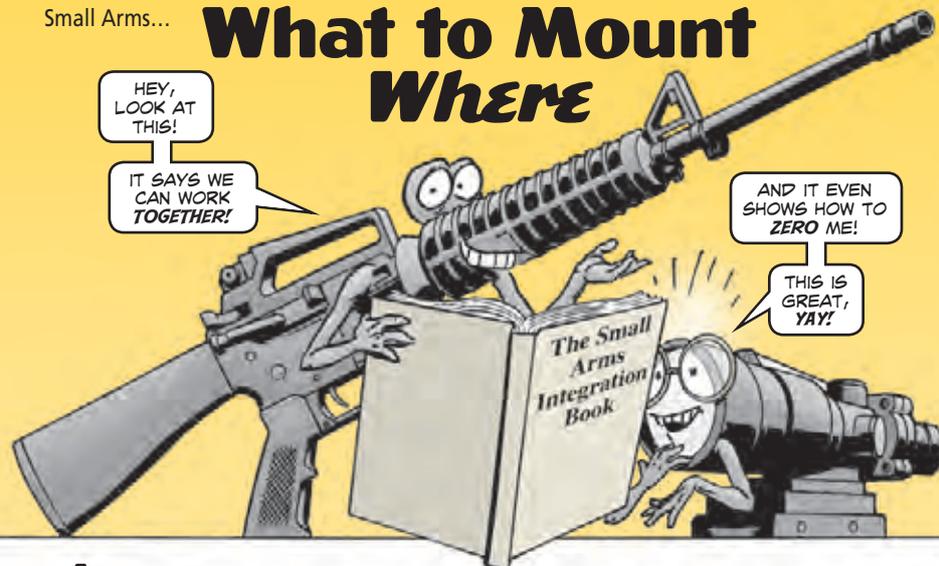
What to Mount Where

HEY, LOOK AT THIS!

IT SAYS WE CAN WORK TOGETHER!

AND IT EVEN SHOWS HOW TO ZERO ME!

THIS IS GREAT, YAY!



It's amazing how much you can mount on your rifles and machine guns now: night sights, aiming devices, laser pointers, thermal sights, and telescopes, among other things. It's also amazing how difficult it is to find out exactly what you're allowed to mount on your particular weapon.

The TMs for the weapons usually don't cover sights and aiming devices and sometimes it's hard to locate TMs for them. And then there's the problem of how to zero the sight or aiming device.

If you run into that trouble, check out the *Small Arms Integration Book*. It has everything you need to know about what you can mount on which weapons, how to do it, and how to zero the sight or aiming device.

YOU DON'T NEED TO ORDER THE BOOK, THOUGH, YOU CAN DOWNLOAD IT.

BUT READ THE INSTRUCTIONS ON DOWNLOADING.

IT IS HUNDREDS OF PAGES AND TAKES QUITE A WHILE TO DOWNLOAD.

YAWN

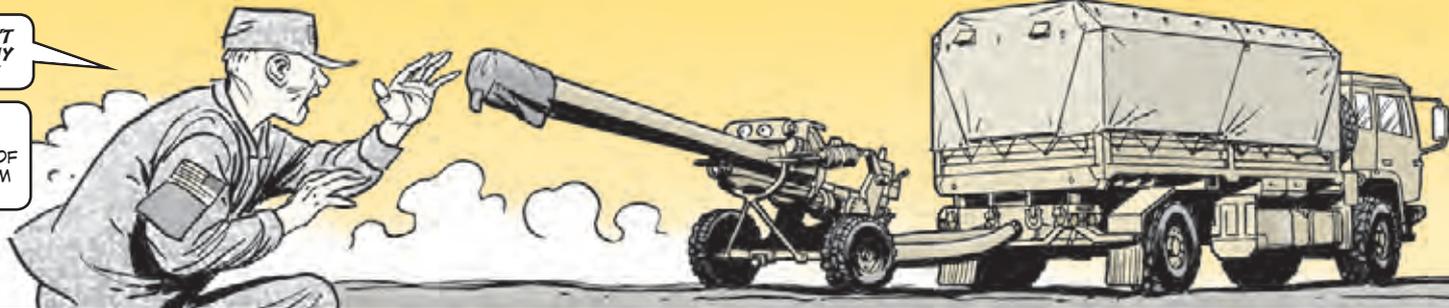


IT CAN BE ACCESSED AT:
<https://www.us.army.mil/suite/folder/4718898>

KEEP HARD COPY, TOO

WAIT! DON'T CONDEMN MY HOWITZER!

I FINALLY FOUND ITS HARD COPY OF ITS DA FORM 2408-4!



IT'S STILL GOOD FOR FIRING!



SEE! I TOLD YOU!



Dear Editor,

We know how important it is to keep a current DA Form 2408-4, *Weapon Record Data Card*, for each mortar, artillery and armor cannon.

The 2408-4 is the required way to keep an accurate count of the number and types of rounds fired. If the data is not up-to-date, a gun tube could be condemned too soon or, even worse, not condemned soon enough.

But I have run into units that think because the 2408-4 can now be updated electronically on the Internet they don't need to keep a hard copy of the form for each weapon. That is wrong. A hard copy of the 2408-4 is required by DA PAM 750-8, *Army Maintenance Management*.

Please help spread the word.

Kent Hubert
Ft Richardson, AK

Editor's note:

You're absolutely right, Kent. Every unit needs to always have a current hard copy of 2408-4 that can go to the field with the weapon so that the operator can record the rounds. The form will also be proof at the firing site that the cannon has passed inspection and is ready for firing.

But units need to also pass the information on the 2408-4 to TACOM, so that they can enter it into the database.

To do this, go to:

<https://tulsa.tacom.army.mil/guncard> and log in with your CAC. If it's your first time, fill out the ACCESS REQUEST FORM. Click on GUN CARD FIRING DATA, then VIEW/PRINT. Enter the tube, cannon and end item serial numbers and/or the UIC of the card you're searching for. Click on ACTIVE CARDS.

When the search results come up, click on VIEW CARD and fill it in. Print a copy of the card when you're done to keep with your cannon.

If you have trouble, contact the TULSA Help Desk at (586) 282-3406 or email:

TACOM-LCMC-ILSC-TULSA@conus.army.mil

If you have questions about filling out the card, click on the POC link for equipment specialists you can contact.

All units are expected to file this information electronically, unless they don't have access to the Internet. Active duty units with no access should mail in their cards each April and October. Reserve and National Guard units with no access should mail theirs in October. Contact these POCs for the mailing address:

ARMOR:

Brad Charneski, DSN 786-7494,
(586) 282-7494,
brad.a.charneski.civ@mail.mil

ARTILLERY:

Joshua Quillin, DSN 786-0433,
(586) 282-0433,
joshua.j.quillin4.civ@mail.mil

MORTARS:

Joe Schmidt, DSN 786-1216,
(586) 282-1216,
joel.e.schmidt.civ@mail.mil

STRYKER:

Tim Joyce, DSN 786-6715,
(586) 532-6715,
timothy.s.joyce.civ@mail.mil



I KNOW YOU NEED A SPECIAL TYPE OF ALCOHOL, BUT I DIDN'T KNOW WHERE TO GET IT, SO LEMME KNOW WHAT YOU'D LIKE FROM THIS PLACE.

WHAT, ARE YOU NUTS?!

I NEED PURE ALCOHOL! NOT THIS ROTGUT!

How to Get Good Alcohol

Dear Half-Mast,
 We know you're supposed to use a special alcohol with the M41 PATS (protection assessment test system), but every time we try to order it, our supply people say they can't get it for us. What can we do?
 SGT M.S.

Dear Sergeant M.S.,
 The PATS is very particular about what alcohol it uses. The **only** alcohol you can use with PATS is pure **reagent grade isopropyl alcohol**. If you use any other kind, the PATS optical system will clog and the only fix is to send it to the TMDE headshed in Alabama. If you can't get the correct alcohol, you're better off just not operating PATS until you can get the right stuff.
 Part of the problem may be that the NSN for the reagent alcohol was changed several years ago to NSN 6810-01-382-2904, but the change hasn't made it into the PATS TM. So you may have been using the wrong NSN.
 But we have heard that some supply folks tell CBRN specialists that only medical personnel are authorized the reagent alcohol. If you run into stubborn supply people, you can get your commander to approve a local purchase. Most local laboratory/chemical suppliers have it. Just make sure the bottle says ACS REAGENT GRADE ISOPROPYL ALCOHOL or 2-PROPANOL, with 99.5% purity by weight.

Or, you can order the alcohol through the Internet at these sites:

http://secure.sciencecompany.com/Isopropyl-Alcohol-Reagent-995-16oz-P16071C670.aspx	http://www2.mooremedical.com/index.cfm?PG=CTL&CS=HOM&FN=ProductDetail&PID=13842
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Remember that when you're through testing with PATS, you need to remove the alcohol cartridge. Otherwise, alcohol saturates the counting mechanism. Let the PATS run for 3-5 minutes to get rid of any excess alcohol.

Half-Mast

CBRN Protection Masks...

NO UNAUTHORIZED HYDRATION PLEASE

Some Soldiers are purchasing hardware for their M40/M42 and other CBRN masks that allow them to get water from the Camelbak® or other hydration systems while wearing their masks.

That could prove a fatal drink in a chemical environment. The hydration system may not have a bladder that seals out CBRN agents. So you end up sucking in the very agents your mask is protecting you from.

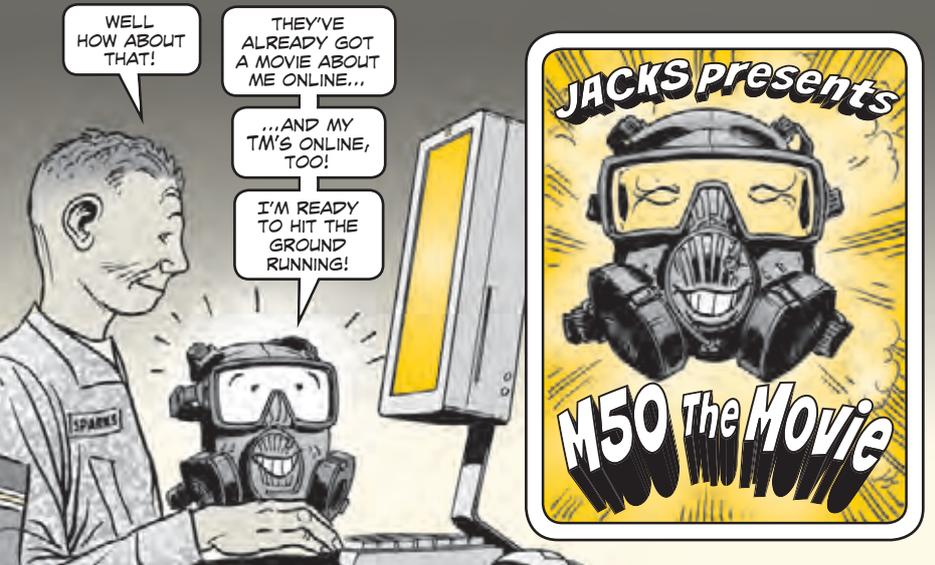
Just because an item is marketed as "Chem-Bio Defense" or "Chem-Bio Accessory" doesn't necessarily mean it will actually protect you from CBRN threats.

The **only** authorized hydration systems are the M1961 canteen, NSN 8465-01-115-0026; the 2-qt water canteen, NSN 8465-01-118-8173; the M1 canteen cap, NSN 8465-00-930-2077; and the water canteen cap, NSN 8465-01-529-9800.

The M1 is AAL for (and **only** for) the M40/M42 masks and works with both canteens. The water canteen cap also works with both canteens and will be used only with the new M50/M51 mask.



Resources for Your NEW M50/M51 Masks



THE ARMY WILL BEGIN FIELDING THE NEW M50/M51 PROTECTIVE MASKS, WHICH REPLACE THE M40/M42, IN FY 13.



But some units have decided to purchase the M50 and M51 masks now with their own funds.

If your unit already has the M50/M51, you can find training information at the Joint Acquisition CBRN Knowledge System (JACKS) website:

<https://jacks.jpocbd.army.mil>

From the TRAINING drop-down menu located below the JACKS banner, select New Equipment Training. Then select JPM Protection and M50/M51 Joint Service General Purpose Mask. The available training files will appear under Selected NET Library.



ALSO CHECK OUT THE M50/M51'S TM 3-4240-542-13&P, WHICH IS AT THE ETM SITE:
<https://www.logsa.army.mil/etms/welcom1.cfm>

M12A1 DED Decon...

A FUEL ADDITIVE HAS BEEN APPROVED FOR THE M12A1 DED DECON THAT WILL INCREASE ENGINE LIFE AND RELIABILITY.



FUEL ADDITIVE FUELS DECONNING

The additive offers these benefits:

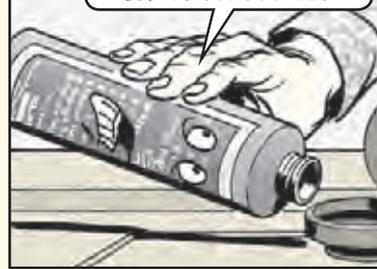
- Prevents diesel fuel from jelling in cold weather
- Suitable for use with ultra-low sulfur diesel
- Increases lubrication ability and inhibits rust and corrosion
- Contains detergents to clean and protect injection pumps, nozzles and injectors.

- Pour in 6 ounces of additive prior to adding diesel or JP8 fuel to ensure it is completely blended with the fuel. Make sure the tank is completely filled (20 gallons).
- Re-cap the additive bottle tightly and clean up any spills immediately.
- Store the additive in a dry area that's above 32°F.

Here's how to use the additive:

- Use only when refilling an empty fuel tank.

WAIT A MINUTE, BUD! THE M12 HAS TO BE OUTTA FUEL BEFORE YOU ADD ME!



IT'S TOO COLD IN HERE!

I HAVE TO BE KEPT ABOVE FREEZING!



- Double-dosing with the additive won't hurt the M12, but it won't provide twice the benefits either.
- Use the additive year-round.

The additive is produced by Stanadyne and is called Stanadyne Performance Formula. It must be purchased locally. Stanadyne has a store locator at:

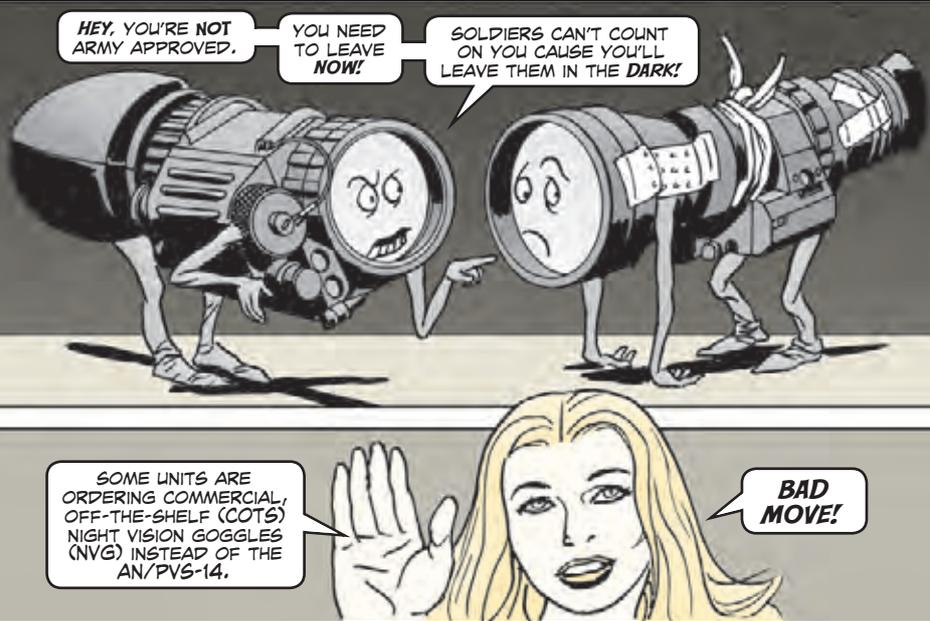
<http://www.stanadyne.com/map/>

The Stanadyne CAGE code is 84760 and the additive's part number is 38564.

Questions? Contact TACOM's Derek Meredith, at DSN 786-2749, (586) 282-2749, or email:

derek.b.meredith.civ@mail.mil

NO SUBSTITUTIONS ALLOWED



These COTS NVG **DO NOT** meet the military's strict specifications and, in some cases, are made of poor quality parts. As a result, these goggles could fail you in battle and put you and your unit at risk.

If that's not enough reason not to use cheap substitutes, these COTS NVGs are not eligible for scheduled 180-day maintenance, Army repairs, RESET, or even Army disposal.

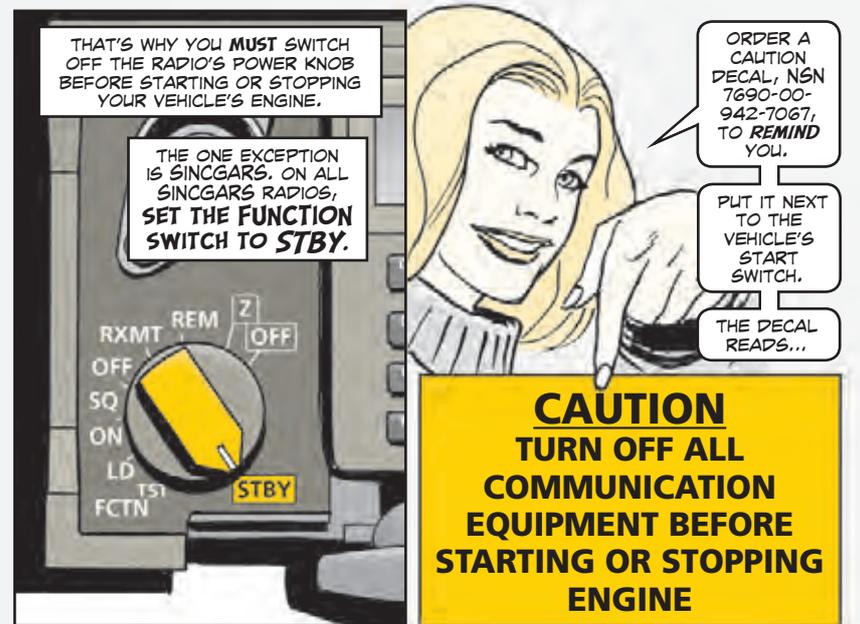
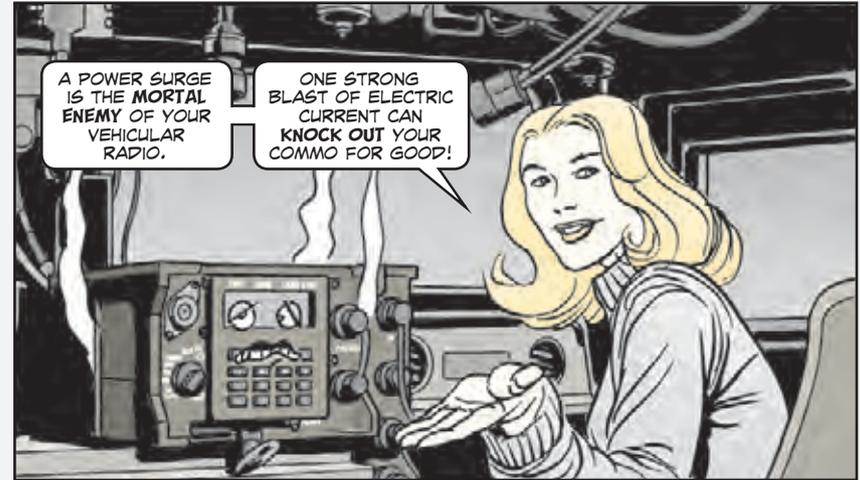
It's easy enough to tell if you've got the real thing. Look for "US Government Property" printed on the NVG's housing. The data plate should also read NSN 5855-01-432-0524. If you discover you've got a COTS NVG, tell your company commander. He needs to investigate.



QUESTIONS? CONTACT CECOMG'S KEN BERGERSON AT DSN 648-1316, (443) 395-1316, OR EMAIL: kenneth.r.bergerson.civ@mail.mil

OR RON BROWN AT DSN 654-1903, (703) 704-1903, OR EMAIL: ronald.f.brown5.ctr@mail.mil

POWER SURGE PUTS RADIO AT RISK



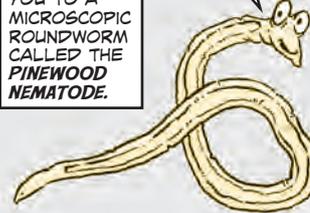
WORM WARS: EPISODE II THE LITTLE BUGGERS STRIKE BACK

IN PS 645 (AUG 06), WE RAN AN ARTICLE ON WOOD PACKAGING MATERIALS (WPM) CALLED "AS THE WORM TURNS."



WE INTRODUCED YOU TO A MICROSCOPIC ROUNDWORM CALLED THE **PINEWOOD NEMATODE**.

THAT'S ME!



THIS LITTLE BUGGER—ALONG WITH LEGIONS OF HIS ROUNDWORM BUDDIES—GETS INTO PINE TREES.



LEFT UNCHECKED, HE AND HIS PALS CAN **INFEST** AND **KILL** WHOLE PINE FORESTS.



THAT MEANS THEY COULD END UP IN THE LUMBER YOU USE FOR WPM.



OH, BOY! I'M GOIN' ON A TRIP!



IF YOU SHIP INFESTED PACKAGING, YOU'RE HELPING TO **SPREAD** THE ROUNDWORMS.



HERE'S THE LATEST UPDATE ON THAT 2006 ARTICLE...



A Continuing Threat

Pinewood nematodes continue to threaten forests worldwide. Shipping of WPM may be the main cause behind the spread of these pests.

WPM Site Program

To make sure WPM is free of worms, units must set up a WPM site program at their facility. For guidance, read DoD 4140.65-M, *Compliance for Defense Packaging: Phytosanitary Guidelines for Wood Packaging Material*. This manual includes recent changes in international WPM regulations. Its purpose is to make sure everyone follows international agreements on shipping pest-free WPM across borders.

DoD 4140.65-M IS THE GUIDELINE FOR OUR WPM SITE PROGRAM.



Definition

Phytosanitary *adj.* Of or relating to the health of plants, especially the freedom from pests requiring quarantine.

You can get the manual online from the DoD Issuances website:

<http://www.dtic.mil/whs/directives>

From the home page, expand **DoD ISSUANCES**. Then click on **Publications**. The next screen is a table of DoD publications. Scroll down to **DoD 4140.65-M** and open the manual.



Heat-treated Lumber

If you build or repair wooden boxes, crates, pallets, skids, dunnage or other wood packaging for shipping, you must use heat-treated (HT) lumber. Heating kills any roundworms lurking in the wood. Authorities at domestic and foreign ports and air terminals can refuse to forward shipments if the WPM is not heat-treated and lacks certification markings.

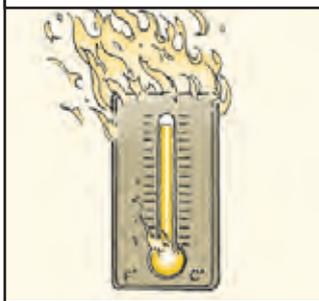


What is Dunnage?

Dunnage is material used to secure or support the cargo being shipped. Examples of WPM used as dunnage are bracers, sleepers, spacers, cross members, headers/footers, and kickers.

A lumber mill must heat the wood at a minimum temperature of 133°F for 30 minutes straight. The mill will then stamp the lumber with HT. That mark tells you the lumber is approved for building WPM. If you purchase lumber locally, make sure it's marked HT. If it isn't, don't use it.

Lumber mills must heat-treat wood

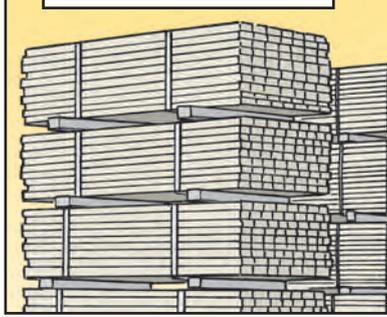


You can also order lumber and wood products from the Defense Logistics Agency (DLA). Go to the Wood Products page on the DLA Troop Support Construction and Equipment website:

<http://www.troopsupport.dla.mil/CE/WoodProducts/>

Once you reach the web page, click on Wood Products Prime Vendor. At the bottom of the next page are phone numbers for the wood product program manager. Below the phone numbers is DLA Troop Support Wood Products Catalog. Click on it. You'll be taken to a catalog for lumber and wood products. The catalog includes a list of MIL-Specs, NSNs, types of wood and suggestions for typical use. When the DLA wood arrives, look for the HT mark.

DLA offers heat-treated lumber



Certification

If you work with WPM, you're required to take **WPM Certification Training**. You must **retake** the training every two years. That way inspectors, packers, wood fabricators and assemblers stay current with policy and procedure changes.

For more information about WPM Certification Training, contact the USAMC Logistics Support Activity (LOGSA) Packaging, Storage and Containerization Center (PSCC). You'll find PSCC phone numbers and an email address at the bottom of this page.

Certification Mark

In April 2009, revisions to international regulations changed the format of the certification mark. "DoD" (or "DoD DUN" for dunnage stamps) has moved outside the border of the mark. This doesn't mean you have to get rid of your old-style stamps right away. There will be a changeover period while new stamps become available. Until you receive your new stamps, use your current ones as long as they're legible.

Certification mark with new format



"DoD" (or "DoD DUN" for dunnage stamps) has moved outside the mark's border

You can stamp, stencil or brand the certification mark onto the wood. If you wear out lots of stamps because you build lots of WPM, order a branding iron from the USAMC LOGSA PSCC.

Once you're WPM certified, contact LOGSA PSCC for information on stamps, stencils and branding irons. You'll find phone numbers and an email address at the end of this article.

Secure WPM stamps, stencils and brands before you leave your work area. You don't want to lose them.

When you build WPM, record your daily lumber usage. Ask your shop leader or WPM site custodian for a marking log or a cut and fabrication work order form. A record of lumber usage is required by DoD 4140.65-M and the American Lumber Standard Committee, Incorporated®, Wood Packaging Material Enforcement Regulations (Nov 09 w/Ch Jul 10).

Secure stamps, stencils and brands before you leave work area

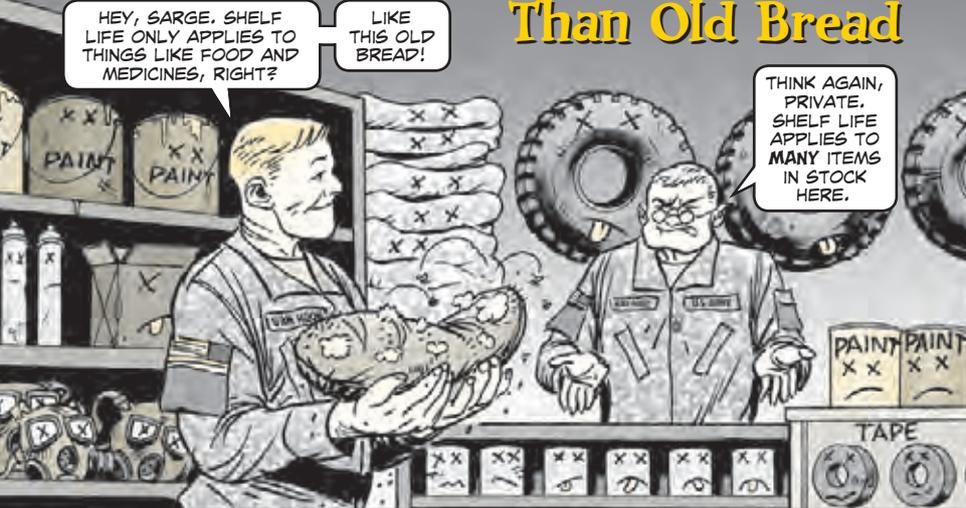


WPM Help

Questions? Contact the USAMC LOGSA PSCC, DSN 795-6587, (570) 615-6587, or email: LOGSAPSCC.wpm.tyad@us.army.mil



Shelf Life: It's About More Than Old Bread



HEY, SARGE. SHELF LIFE ONLY APPLIES TO THINGS LIKE FOOD AND MEDICINES, RIGHT?

LIKE THIS OLD BREAD!

THINK AGAIN, PRIVATE. SHELF LIFE APPLIES TO MANY ITEMS IN STOCK HERE.

Most of us know something about shelf life. At home or the grocery store, we check expiration dates on bread or milk to be sure the product's still good.

But sometimes, the difference between shelf life and service life causes confusion in Army supply circles. Every supply item has a useful life expectancy, but shelf life and service life are two different stages in an item's life.

Shelf Life

Shelf life for a product begins on the date of manufacture and lasts until its packaging is opened or the product expires. Some examples of shelf-life items include:

- food
- medicines
- batteries
- paints
- sealants
- adhesives
- film
- tires
- chemicals
- packaged petroleum products
- hoses/belts
- mission-critical O-rings
- CBRN equipment and clothing

Shelf-life codes tell you the date by which you must use, inspect/test/restore or dispose of items. You'll find codes and policies in Appendix E of DOD 4140.27-M, *Shelf-Life Management Manual*. View or download it here:

https://www.shelflife.hq.dla.mil/policy_DoD4140_27.aspx

There are two types of shelf-life supplies. Type I items have defined, non-extendible shelf lives. Their usefulness ends on their expiration date. Type II items have assigned shelf-life periods that may be extended after inspections, tests, or restoration.

Service Life

Shelf life ends and service life begins when packaging is opened and an item enters use. This transition also occurs when a shelf-life item is installed, placed in a bin or held as bench stock.

Service life is a general term for the average or standard life expectancy of an item when it's in use. More testing and inspection are needed once an item enters its service life. You'll find the service life testing and inspection requirements for some items in their technical manuals.

However, many consumable Type I (non-reparable) items do not have specific service lives. If there is any doubt about the safety or serviceability of an item, dispose of it properly.

EFFECTIVE SHELF LIFE AND SERVICE LIFE MANAGEMENT TECHNIQUES...



- Requisition/procure items in smaller quantities and units of issue. Use Supply Support Requests when necessary.
- Reduce inventory stockage levels.
- Requisition items just-in-time.
- Practice stock rotation, i.e. first-in, first-out (FIFO).
- Maintain required prescribed storage conditions, particularly for shelf life items which are hazardous materials.
- Extend Type II shelf life items by:
 - using test results from the Shelf Life Extension System (SLES).
 - testing samples when cost effective, or
 - accomplishing authorized visual inspections or restoration procedures.
- Label extended Type II items using DD Form 2477 series labels, available from the DoD Shelflife website.
- Prepare Supply Discrepancy Reports (SDR) when issued outdated shelf life items.
- Submit shelf life code challenges to the DoD Shelflife website when experience indicates a change is needed.
- Process outdated items promptly for disposal.
- Obtain shelf-life training at the DoD Shelflife website.
- Follow tech pub guidance when managing service life.

For more information, visit DOD's shelf-life website:

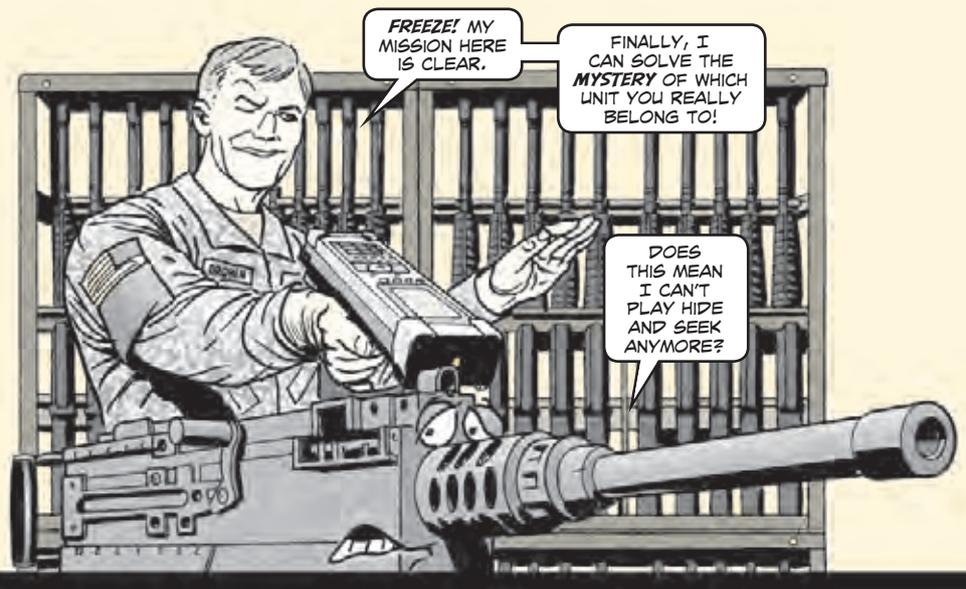
<https://www.shelflife.hq.dla.mil/>

For assistance, contact the Army shelf-life POC at DSN 795-7685, (570) 615-7685, or email:

sles.army@dla.mil

Go to our blog at <http://halfmastpsmag.wordpress.com> to see ways to extend shelf life for Type II items.

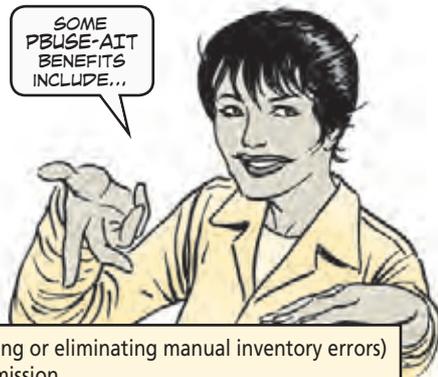
PBUSE Adds Enhanced AIT



Property Book Unit Supply-Enhanced (PBUSE) is the Army's web-based property accountability system.

One of PBUSE's recent improvements is Automatic Identification Technology (AIT), a feature which will be fielded to more than 12,000 units by FY12. Units will receive AIT by authorization, and initial training is done onsite.

Unit supply sergeants, property book officers and others who use PBUSE will benefit from this latest technology. Initial surveys from users show AIT has already greatly reduced inventory times and errors.



- Increased data accuracy (by reducing or eliminating manual inventory errors)
- Quicker data collection and transmission
- Ability to direct automated inventories by unit, NSN, LIN or sub-hand receipt
- Ability to transfer unit-level equipment between sub-hand receipts
- Ability to initiate lateral transfers, asset adjustments and process MILSTRIP receipts from the Handheld Terminal (HHT) device.

Most importantly, PBUSE-AIT offers a reliable and consistent way to identify and track items with Unique Item Identifiers (UIIs) as they move through the supply pipelines.

AIT Types Used by PBUSE

- Two-dimensional barcodes like linear barcodes, but which carry about 100 times more data. This allows data-specific info on equipment to be encoded in the barcode.
- Item Unique Identification (IUID) matrices. Each item is marked with a permanent two-dimensional data matrix barcode label. This matrix, in turn, builds an IUI that is globally unique. This means no other item in the world can be assigned that number. Information such as a manufacturer's identification (CAGE code) and serial number are embedded in the IUI.

The HHT Advantage

The HHT is a versatile tool used to perform actual inventories. The HHT scanner makes inventory so speedy and efficient that what used to take hours can now be done in minutes.

The HHT can also add items that are not on a unit's inventory list, or flag items that can't be scanned or need their barcode labels reprinted. It can even scan items not owned by the unit. This is helpful because sometimes similar items are misplaced or swapped out between units. Identifying the owning unit can save them from having to do a property investigation.

Multiple HHT devices, users and unit identification codes can all be managed through the main PBUSE application.

Training

FOR PBUSE-AIT TRAINING QUESTIONS, CONTACT PBUSE SYSTEM MANAGER MS. LONNA FREELAND, AT DSN 687-7855, (804) 734-7855, OR EMAIL: lonna.k.freeland.civ@mail.mil

MORE INFO IS ALSO AVAILABLE AT: <https://pbuse.lee.army.mil/>

COMET HELPS UNITS AIM FOR STELLAR PERFORMANCE



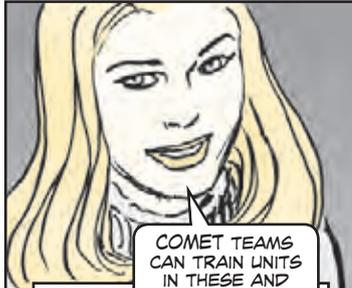
THE ARMY'S COMMAND MAINTENANCE EVALUATION TRAINING (COMET) TEAMS DO MORE THAN CONDUCT UNIT EVALUATIONS AND INSPECTIONS.

THEY ALSO ASSIST UNITS THROUGH TRAINING.



ACTIVE ARMY COMET TEAMS RESIDE AT FORTS BRAGG, STEWART, DRUM, CAMPBELL, HOOP, CARSON, RILEY, POLK, BLISS AND LEWIS.

THE COMET TEAMS TRAVEL TO—AND SUPPORT—OTHER FORSCOM LOCATIONS.



COMET TEAMS CAN TRAIN UNITS IN THESE AND OTHER AREAS...

- PMCS
- Maintenance management
- Shop operations
- SAMS-E
- PBUSE
- Property accountability
- Publications
- Supply



FOR MORE INFORMATION, CONTACT MR. JOSEPH CHAVEZ AT DSN 670-6409, (910) 570-6409, OR EMAIL: Joseph.chavez@us.army.mil

PBUSE AIT Course Offered

A sustainment training course for PBUSE operators is offered by the COMET team at Ft Campbell, KY.

The PBUSE Automatic Identification Technology (AIT) scanner class focuses on new hardware going out to units. It is the first PBUSE course covering the AIT system that will soon be required at the unit level.

Students learn how to employ and use the AIT system, create PBUSE inventories, synchronize info and use scanners for inventories.

They also learn how to conduct different kinds of inventories, such as sensitive items, cyclic, hand receipt holder change, or change-of-command.

Classes can seat 12 students. Soldiers, Department of Army civilians, and contractors may apply; however, Soldiers have priority for getting into the class. All students must have prior PBUSE experience.

The course is currently offered only at Ft Campbell, but will eventually roll out to other COMET locations.

For more information about the PBUSE AIT course, contact Todd York at DSN 363-4774, 270-956-4774, or email: todd.j.york@us.army.mil or David Jones, DSN 635-4529, 270-798-4529, or email: david.b.jones5@us.army.mil



CLASS REGISTRATION IS THROUGH THE ARMY TRAINING REQUIREMENTS AND RESOURCES SYSTEM (ATRRS).

TO REGISTER, VISIT: <https://www.atrrs.army.mil/>

SEARCH FOR COURSE CAM-AIT AT SCHOOL 425.

I HAVE MULTIPLE REQUESTS HERE FROM SOLDIERS WHO ALL NEED THEIR PARTS BY NEXT WEEK.

I KNOW THE NORMAL SUPPLY CHAIN DOESN'T WORK THAT FAST.

WHAT DO I DO?



DON'T PANIC, WRIGHT.

YOU CAN ORDER THOSE ITEMS WITH A GPC OR MILSTRIP AND GET THEM WITHIN A FEW DAYS.

TRY DOD'S EMALL.



DOD EMALL MAN! YOU'RE MY HERO!

THE DEPARTMENT OF DEFENSE'S (DOD) ELECTRONIC MALL (EMALL) SERVES AS A SINGLE, WEB-BASED ENTRY POINT FOR FEDERAL AND MILITARY PURCHASERS TO GET SERVICES AND OFF-THE-SHELF GOODS FROM COMMERCIAL AND GOVERNMENT SOURCES.

AS DOD'S OFFICIAL E-COMMERCE WEBSITE, THE EMALL SERVES HUNDREDS OF MILITARY FACILITIES WORLDWIDE.



WHY USE EMALL?

First, it's a secure place to shop. There's also a powerful search engine to help you locate products from a variety of government and supplier catalogs.



YOU CAN SHOP BY...



FILTERING RESULTS LETS YOU VIEW OPTIONS LIKE GREEN ITEMS, PRODUCT PICTURES, FORMS OF PAYMENT OR BLANKET PURCHASE AGREEMENTS.

Cross-store shopping lets you compare prices and other details when choosing products. Plus, you no longer have to visit catalogs separately to place EMALL orders. You can cross-catalog shop, create and save shopping carts, and order items from more than one source at a time.

Delve into DOD EMALL

MAYBE YOU'VE JUST HEARD OF DOD EMALL FOR THE FIRST TIME AND ARE WONDERING...

...WHAT THE BUZZ IS ABOUT.

FOR STARTERS, HOW ABOUT THE EASE AND CONVENIENCE OF ONE-STOP SHOPPING?



HOW MUCH STUFF DOES EMALL HAVE?

EMALL has more than 5 million NSN items and more than 30 million commercial items. It also promotes environmentally-friendly or "green" products, and supports smaller entrepreneurs so they can compete on a global scale.

PS MORE

WHO CAN SHOP AT THE EMALL?



ONLY AUTHORIZED AND REGISTERED PERSONNEL CAN USE EMALL.



HERE ARE SOME KEY POINTS...



- Authorized Soldiers and DA civilians may use valid Department of Defense Activity Codes (DODAACs) to place EMALL orders. (Note: The correct DODAACs must be supplied or accounts in question may be suspended.) First-time EMALL users will need to register at the website.
- The Government Purchase Card (GPC) is the primary authorized means for ordering supplies and services via EMALL. Many suppliers accept payment with commercial credit cards and DODAAC and Fund Codes (MILSTRIP/MILSBILLS.) MILSTRIP orders must ship to DODAAC-associated addresses. If a supplier accepts only GPCs, you will be notified before your order is placed.
- DOD EMALL is now fully Common Access Card (CAC) and Public Key Infrastructure (PKI) enforced. If you have a CAC, you should be able to access EMALL. Vendors or contractors who do not have CACs will need to obtain an External Certificate Authority first from one of the approved commercial vendors listed on the EMALL website:

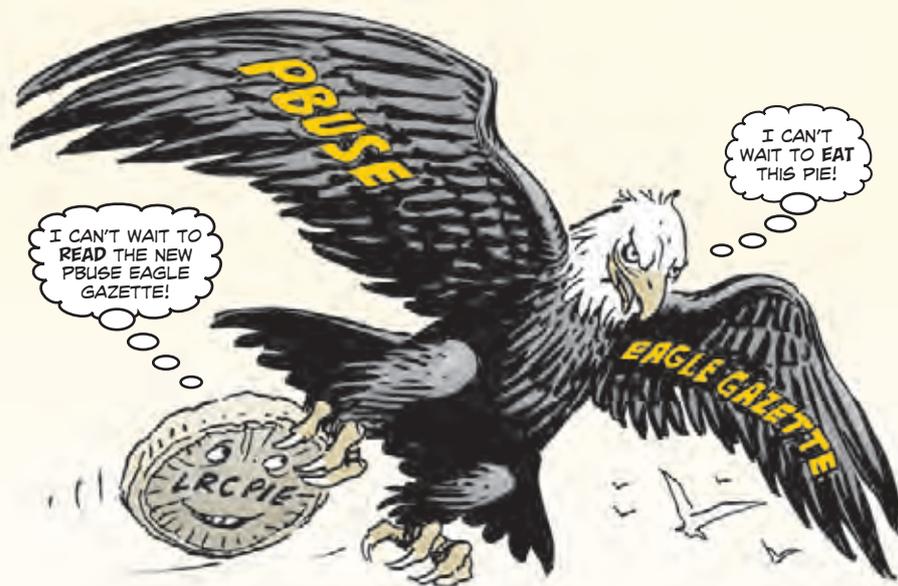
<https://dod-email.dla.mil/acct/>

THE WEBSITE GIVES INSTRUCTIONS AND OFFERS TUTORIALS FOR USING EMALL AND SUBMITTING SUPPLY ASSISTANCE REQUESTS.



EMALL ASSISTANCE IS ALSO AVAILABLE 24/7 FROM CUSTOMER SERVICE REPRESENTATIVES...

CONUS 1-877-352-2255, OCONUS (269) 961-7766, or by email: DLAcontactcenter@dlamail.mil



I CAN'T WAIT TO READ THE NEW PBUSE EAGLE GAZETTE!

I CAN'T WAIT TO EAT THIS PIE!

PBUSE Eagle Gazette Online

You can view and download current and past issues of the USAR *PBUSE Eagle Gazette* newsletter from AKO. It's packed with helpful info about PBUSE and other property and supply-related subjects. After logging into AKO, go to "Files" (second button at top right of your AKO screen), "Access Files by ID," and in the Download field box, type "9069167". You'll be asked if you want to view that folder's contents. Click OK and you're golden. Be sure to add the folder to your AKO favorites so you can find it again.

LRC PIE Chock-Full of Tasty Info

Looking for detailed information on CECOM equipment? Check out the Logistic Readiness Center's (LRC) Policy and Information Encyclopedia (PIE). You can search for equipment by type, NSN/NIIN, LIN, part number/drawing number, TM number, item name or office symbol. Anyone with an AKO account can access the database online:

<https://lrc3.apg.army.mil/pie/equip1.cfm>

For more information about LRC's PIE, contact Jeff Potter at DSN 848-6458, (443) 861-6458, or email:

jeffery.l.potter.civ@mail.mil

Connie's POST SCRIPTS

M230 Gun Firing Pin Limit Changed

The mandatory replacement criteria for the M230 automatic gun's firing pin has been lowered from 15,000 rounds to 10,000. AH-64D IETM 1-1520-Longbow Apache has already had this change incorporated, but maintainers need to write in the change on Page 4-46.1 in the M230's TM 9-1090-208-23-1-1. If any of your M230's firing pins have already reached the 10,000 round limit, you can wait until the next scheduled maintenance teardown to replace the firing pin, NSN 1005-01-451-4566. For more info, see TACOM maintenance advisory 11-047:

https://tulsa.tacom.army.mil/safety/Mam/TACOM_WN/MA11-047.html

FMTV VDC

When ordering the vehicle data computer (VDC) for FMTV trucks, use NSN 5895-01-591-7887. Do not use NSN 5895-01-528-1514 that's shown in TM 9-2320-365-24P (Aug 05). That gets a VDC only for MRAP vehicles, not the FMTVs.

M989 HEMAT SWAP OUTS

All M989 HEMATs, NSN 2330-01-109-4258, are authorized for swap out and replacement with the M989A1 HEMAT, NSN 2330-01-275-7474. Make sure you have the trailer's serial and registration number before you ask for disposition instructions and replacement. Then call Marleen Fiantaco at DSN 786-9362, (586) 282-9362, or email: marleen.fiantaco@us.army.mil

M870A3 HYDRAULIC HOSE ASSEMBLY PARTS KIT

On Page 16 of PS 691 (Jun 10), we told you that NSN 4720-01-520-6767 brings the hydraulic hose assembly for your M870A3 semitrailer. But that NSN doesn't include the disconnects you need. So instead, order the hose assembly parts kit, NSN 4720-01-586-5839.

New Email Address for UTAP

Due to the Army's Enterprise email migration, TACOM's Unit Training Assistance Program (UTAP) has a new email address for customer support. Email UTAP at:

tacom-lcmc.ilsc_utap@mail.mil

D Co Earns "A" in Maintenance

PS sends out a special "HOOAH!" to D Co, 6/101st Avn Regt, Ft Campbell, KY (FORSCOM). They are the 2011 Department of the Army winner of the Secretary of Defense's Maintenance Award in the Medium Category for field-level maintenance. The annual awards recognize the best maintenance by units and depots in the Department of Defense.

MEL TB for Tactical Wheeled Vehicles

TB 43-0002-81, *Maintenance Expenditure Limits for FSC Group 23 - Tactical Wheel Vehicles, FSC Classes 2310, 2320, and 2330*, has been updated. It includes current maintenance expenditure limits. These limits are very important in determining the maximum allowable repair cost for tactical wheeled vehicles. Eyeball it on LOGSA's ETM website:

<https://www.logsa.army.mil/etms/index.cfm>

AR 385-10 Revised

A revision to AR 385-10, *The Army Safety Program*, went into effect in Oct 2011. This rapid revision updates, clarifies or establishes a number of safety-related policies, programs and processes. It's available on the Army Publishing Directorate's website:

http://www.apd.army.mil/pdf/files/r385_10.pdf

The Scoop on Cancelled CECOM (B16) Requisitions

You can find out why your CECOM (B16) requisition was cancelled by going to:

<https://lrcweb1.apg.army.mil/canotes>

This website is only for CECOM (B16) requisitions. You can search by NIIN or document number with an applicable date. You will need your AKO login. Questions? Contact Diane Johnson at DSN 848-6322, (443) 861-6322, or email:

diane.johnson1.civ@mail.mil

GET MRAP TRAINING AT RRAD

Do leaders in your unit need mine resistant ambush protected (MRAP) vehicle driver's and maintenance training? They can get it at Red River Army Depot (RRAD) through MRAP University. This train the trainer training is available for all services, LARs, RRAD maintenance personnel, LOGCOM and OEM field service reps. Training for operators lasts 12 days, while training for mechanics takes 6 weeks. For more information, contact Bobby Russell, MRAP University site lead, at DSN 829-4905, (903) 334-4905, or email:

bobby.e.russell2.civ@mail.mil

MANNEQUIN TARGET QUANTITY CHANGE

When you order the mannequin target with NSN 6920-01-164-9625, you will no longer get just one target. Instead you will receive a box containing 35 targets for \$439.

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

Would You Stake Your Life ^{right now} on the Condition of Your Equipment?

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