



#### ISSUE 756 NOVEMBER 2015



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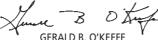
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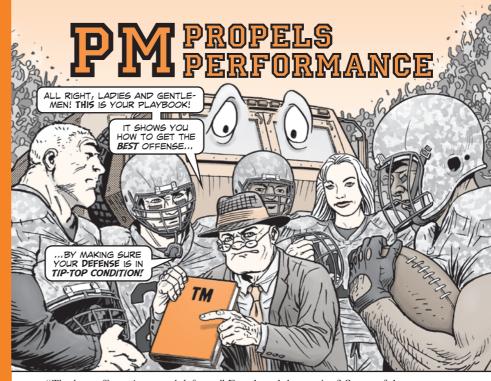
#### RAYMOND T. ODIERNO

General, United States Army Chief of Staff

Official



Administrative Assistant to the Secretary of the Arm



"The best offense is a good defense." Ever heard that saying? Successful sports teams like to say that, meaning that if the other team doesn't score much (or at all), it's a lot easier to win.

Translate that to winning on another field—the battlefield. If the enemy can't beat your defense, he's not going to win many battles.

So how do you toughen up your defense for the battlefield? By constant application of preventive maintenance to your vehicles and equipment.

While military tactics deploy Soldiers and equipment as situations dictate or where advantage can be gained, it is the condition of equipment that holds the line and helps carry the mission.

Would you stake your life right now on the condition of your equipment?

If there's any doubt, get out the operator and maintenance pubs for your equipment and do what they tell you. Just as the pros like their chances of winning when the defense is top-notch, our chances greatly improve when your defense is PM.

WE HAVE THE WORLD'S BEST EQUIPMENT...

PS 756 **NOV 15** 

# PS COMBAT VEHICLES

THIS HAS BEEN A GREAT

NTC ROTATION!

Combat Vehicles!

M1-series final drives

Bradley IETM

**PS756** 

M1-series turret cracks

M119A3 firing pins
Bradley M242 connector

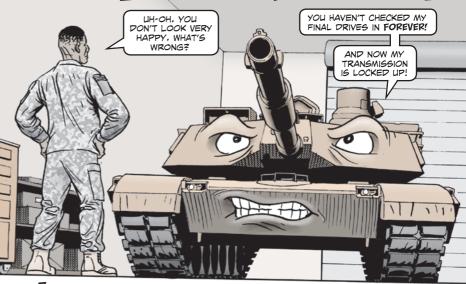
Bradley engine access door

YEP, THANKS TO

GOOD PM!

M1-Series Tanks...

## DAVE COME FINE DAVE PU



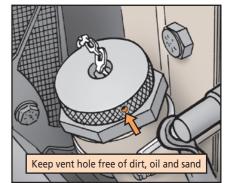
If you don't keep enough oil in your M1-series tank's final drives, your tank's next drive might be a short one!

Final drives that go dry will seize and lock up the transmission. The repairs will cost your unit big bucks! But a team effort from crewmen and mechanics can keep those final drives full and on the job.

#### Crewmen

Using the -10 TM's PMCS charts, inspect the final drives weekly for oil leaks, especially at the drain and check plugs. Tell your mechanic about any leaks. While you're at it, take a quick look at the final drive filler cap. Dirt, oil and sand can clog the vent hole on each of the filler caps. When that happens, pressure can build until the final drive seal ruptures.

If you're operating in a dusty or muddy environment, check the filler cap after every mission.



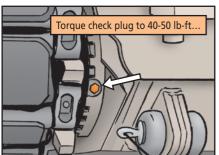
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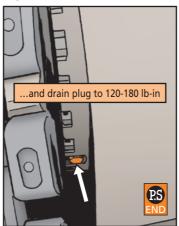
#### Mechanics

After checking the final drive oil levels during semiannual services, make sure you use the right torque when replacing the drain and check plugs.

The plugs look the same but they don't take the same torque. The check plug is tightened to 40-50 lb-ft, but the drain plug can't take that kind of pressure. It either cracks—and leaks—or shears off altogether.



Make sure you torque the drain plug to 120-180 **lb-in.** Yes, that's pound-inch! You'll find the step-by-step instructions in the -23 TMs.



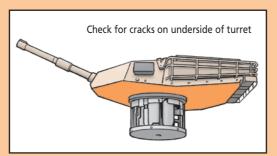
M1-Series Tanks...

## STAY VIGILANT FOR TURRET CRACKS

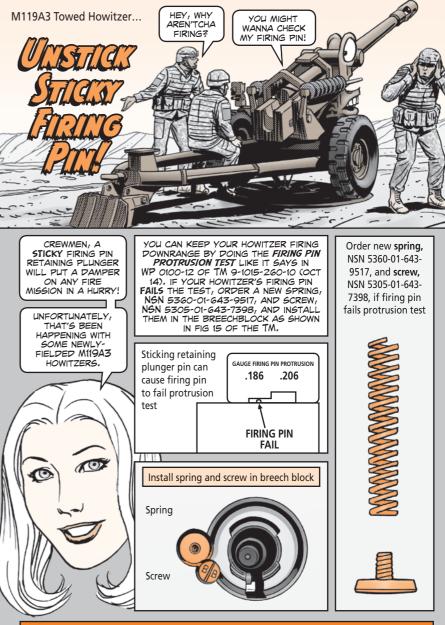
Crewmen, if you see cracks on the underside of your M1-series tank's turret, don't be alarmed. Your tank isn't necessarily falling apart.

In most cases, these aren't cracks in the armor but in the thin metal skin that covers the bottom of the turret.

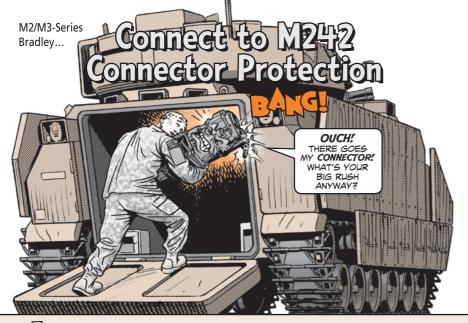
The cracks do need to be checked out, though, so keep an eye out for them or other signs of metal fatigue during your PMCS. If you spot any, let your mechanic or TACOM LAR know right away.







NEW HOWITZERS ARE BEING RETROFITTED WITH THE UPGRADED PARTS PRIOR TO FIELDING. A RETROFIT IS ALSO IN THE WORKS FOR EARLIER FIELDED HOWITZERS.



The Bradley's M242 gun is a giant of a weapon, but it definitely has an Achilles' heel: the feeder's 14-pin connector. Just a moment of carelessness can ruin the connector and that knocks out the M242.

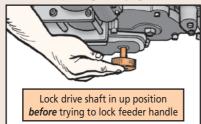
The situation has gotten so bad that the Army is running out of M242 drive current motors.

So every Bradley unit needs to connect to these 14-pin connector precautions so they don't end up with NMC M242s:

The connector is often damaged when the feeder is being positioned on the receiver because crews are doing timed drills and they haven't trained with the M242 in a long time. They rush things and BANG the connector is bent. To prevent that, do refresher training before doing timed drills. Let crews get used to putting the feeder on the receiver before starting the stopwatch.

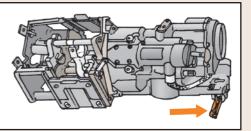
The connector is also damaged when crews try to lock the feeder on the receiver when the feeder's not positioned correctly. Avoid that by first pushing up the vertical

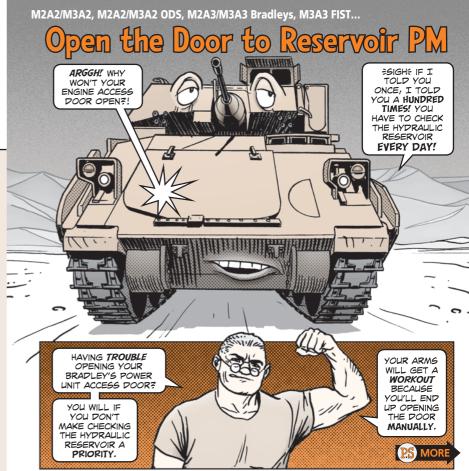
drive shaft before trying to lock the feeder in place. If the drive shaft won't slide up, the feeder isn't positioned right. Reposition it and try again. Once the drive shaft is locked in place, the feeder handle should easily lock in the down position. If it doesn't, something is wrong. If you force the handle, you damage the connector. Tell your repairman.



When you remove the feeder, make sure its handle is in the down position before you lay the feeder on the ground. That protects the connector.

Put feeder handle down before putting feeder on ground





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CHECKING THE RESERVOIR LEVEL IS A **DAILY TASK.**FOLLOW THESE **THREE STEPS** TO ENSURE THE RESERVOIR
HAS THE **CORRECT** AMOUNT OF FLUID...

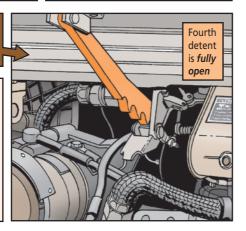
STEP 1
PARK THE VEHICLE
ON LEVEL GROUND.

THE RESERVOIR SIGHT GLASS WON'T GIVE AN ACCURATE READING IF YOUR BRADLEY IS PARKED AT AN ANGLE.

## STEP 2 OPEN THE ACCESS DOOR ALL THE WAY BEFORE CHECKING THE FLUID LEVEL.

WHEN THE POOR IS ONLY PARTIALLY OPEN, YOU'LL GET A HIGH REAPING BECALGE THE HYPRAULIC CYLINDERS AREN'T FULLY EXTENDED. IF YOU DRAIN FRH FROM THE RESERVOIR TO LOWER THAT HIGH REAPING, THE SYSTEM WILL BE UNDER-FILLED. THEN YOU CAN GET AIR IN THE SYSTEM THAT MAY KEEP THE POOR FROM OPENING.

AVOID THIS PROBLEM BY OPENING THE ACCESS POOR TO THE FOURTH PETENT ON THE SUPPORT LINK. THAT'S FULLY OPEN.



## STEP 3 EYEBALL THE FLUID LEVEL IN THE RESERVOIR.

THE LEVEL IN THE SIGHT GLASS SHOULD REACH THE FULL MARK LINE INSCRIBED ON THE RESERVOIR.

IF IT DOESN'T, ADD FRH UNTIL IT REACHES THE LINE. IF THE LEVEL PASSES THE MARK, DRAIN SOME OF THE FLUID. USE AN AOAP VAMPIRE PUMP, NSN 4930-01-119-4030, TO REMOVE THE EXCESS FLUID.



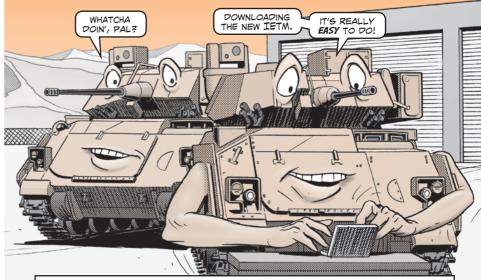
# AN EXTRA STEP WHILE YOU'RE CHECKING THE SIGHT GLASS, PAY SPECIAL ATTENTION TO THE COLOR OF THE FLUID.

FLUID THAT IS MILKY IS PROBABLY CONTAMINATED WITH WATER. LET YOUR MECHANIC KNOW RIGHT AWAY BECAUSE CONTAMINATED FLUID WILL RUIN THE SEALS.



M2/M3-Series Bradleys...

## **Download Or Order New IETM**



Dear Editor,

Your readers might like to know that TM 9-2350-408-13&P (IETM EM 0356, Apr 15) is now available for the Bradley FOV. The IETM is available free through the Army Publishing Directorate (APD) or by downloading from the Logistics Information Warehouse (LIW) website.

Mark Weiman Bradley Publications Manager TACOM LCMC

Editor's note: Outstanding! Units, set up a publications account by emailing a completed DA Form 12 to APD's Account Processing Team at:

usarmy.stlouis.106-sig-bde.mbx.dolwmddcustsrv@mail.mil
Instructions for setting up an account are at:

http://www.apd.army.mil/Orders/HowtoEstablishAcct.pdf

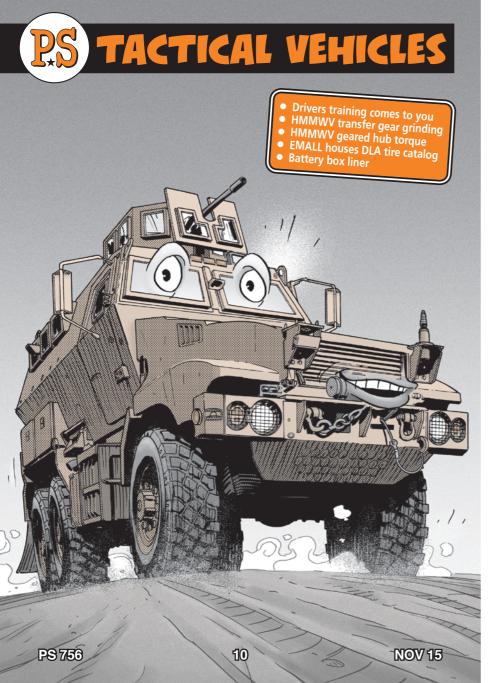
Once your account is set up, order the IETM through the Point & Click Ordering System at: https://dol.hqda.pentagon.mil/ptclick/index.aspx

To order, Search and fill out the form on the next webpage.

Download IETMs on the LIW website at: https://liw.logsa.army.mil

Pages 48-51 of PS 746 (Jan 15) have instructions for downloading IETMs: https://www.logsa.army.mil/psmag/archives/PS2015/746/746-48-51.pdf

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# Training... MDTQC Takes Show on the Road



Good news, units! The Army's Transportation School at Ft Lee, VA, has put its popular Master Driver Trainer Qualification Course (MDTQC) on the road.

MDTQC is still offered as a resident course at Ft Lee, but now a mobile training team (MTT) offers a second option for getting the qualification. Units with high op tempo that find it hard to spare NCOs for TDY training may find the MDTQC MTT option is a great alternative.

The mobile course follows the same program of instruction as the resident curriculum, lasting two weeks and three days. The schedule includes both classroom and hands-on training.

Topics include convoy operations, risk management, accident avoidance and investigations, unit licensing and driver's training program management.

The MDTQC MTT tailors instruction to a unit's specific needs and local resources, meaning units train on their home turf with their own equipment.

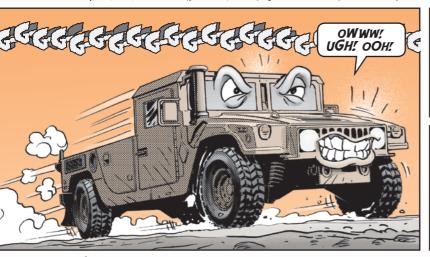
To learn more about MDTQC, see Page 57 in PS 730 (Sep 13):

https://www.logsa.army.mil/psmag/archives/PS2013/730/730-57.pdf

For questions about MDTQC or the MTT option, contact Jeffrey Skinner, DSN 539-1955, (804) 765-1955, or email: jeffrey.e.skinner4.civ@mail.mil

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HMMWV... TOO MUCH GEAR GRINDING ...NOT GOOD!





OWN TEETH LONG ENOUGH, DRIVERS, AND YOUR FRIENDLY **NEIGHBORHOOD** DENTIST WILL HAVE A FIELD DAY WHEN YOU GO IN FOR A

> GOOD WHEN YOU SHIFT TRANSFER GEARS WITH THE ENGINE RUNNING ON YOUR HMMWV EITHER. IT MEANS THAT SOMEDAY A MECHANIC MAY HAVE TO REPAIR GEAR DAMAGE.

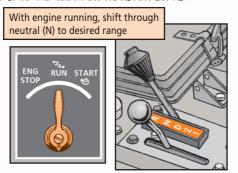


 $oldsymbol{\mathsf{H}}$  ere's what you can do to save the teeth on transfer gears:

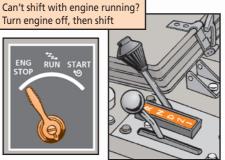
 When a transfer range change is necessary with the engine running, stop the truck and shift the transmission to neutral. Never shift on the fly. That'll tear up driveline parts.

Shift the transfer shifter through neutral to the desired range. Some gear clash may occur and is normal, but you should be able to make the shift easily. Keep in mind, though, that the longer you leave the shifter in neutral, the more gear clash will occur. That's because even in neutral, engine rotation spins the transmission output shaft.

- If you can't shift easily, turn the engine off and then shift the transfer. Restart the engine and continue the mission.
- When your mission is complete, let vour mechanic know that you had to stop the engine to shift the transfer. He'll troubleshoot for problems such as excessive engine idle rpm.



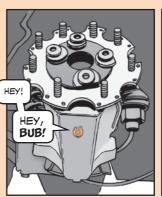




HMMWV... PLUG

THERE GO MY

TRANSFER GEAR





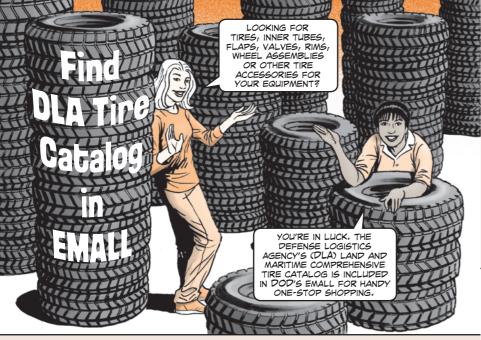
The magnetic drain plug, NSN 4730-00-045-9769, on your HMMWV's geared hub has a few complaints. Seems mechanics are being a little heavy-handed when they remove or install it.

The plug sees a lot of action. The hubs have to be drained during PMCS, before any repair work is done to the geared hub, and after any operation where water contaminates the gear oil.

It takes only a little torque—8-13 lb-ft—to keep the plug in place. Any tighter and you'll strip the threads.

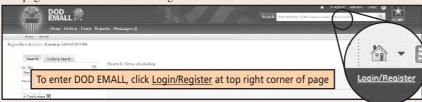
Make sure you use a <sup>3</sup>/<sub>8</sub>-in hex head driver to remove the plug. You'll round off the plug's head with anything else. That makes removing it a lot harder next time.

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#### Access DOD EMALL at: https://dod.emall.dla.mil/acct/

If it's your first visit, select the <u>Login/Registration</u> link at the upper right corner of the page. You'll need a CAC to register.



After registering and logging into DOD EMALL, you'll be on the main search page. You can search for items by keyword or NSN, but the easiest way is to navigate to the search tab on the left side of the page and choose the "Corridor" dropdown menu.

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Select the Tires eCatalog from the dropdown menu list. You'll go to the Tires eCatalog homepage. Here you can search sub-catalogs (Tires, Accessories, Wheel Assemblies or Rims) and narrow down results even more by NSN, size or other filters.

	Search Catalog: Tires	pers.)
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	Wheel Assembly NSN:	•
Search for specific tires using	Weapon System Name:	•
various filters	CAGE Code:	

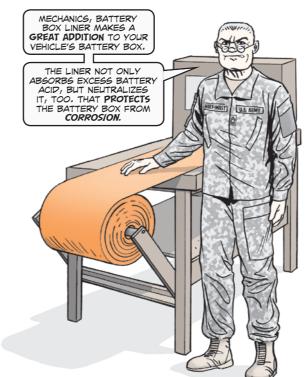
If you still can't find what you're looking for, email the DLA Tire Team at:

#### DSCC.TiresTeam@dla.mil

Need help ordering from DOD EMALL? Contact customer service at CONUS 1-877-352-2255, OCONUS (269) 961-7766, or by email:

DLAcontactcenter@dla.mil



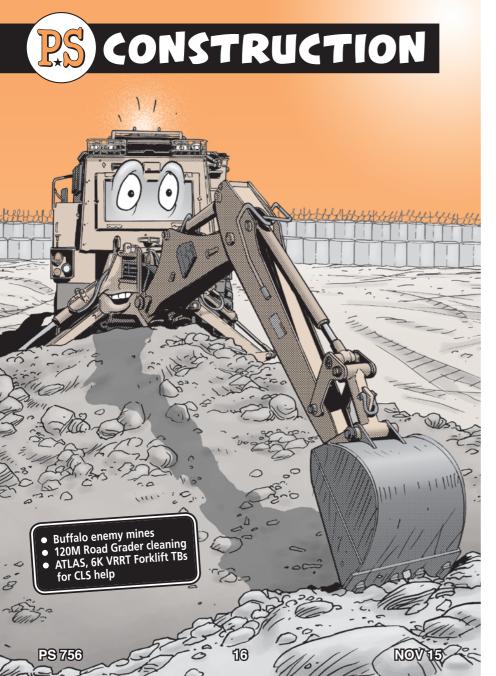


## LINER LIMITS BATTERY BOX BUMMER

A ROLL OF 1/8-IN THICK LINER COMES WITH NSN 6160-01-389-1966. JUST CUT IT TO THE PIMENSIONS YOU NEED TO LINE YOUR VEHICLE'S BATTERY BOX.

THE LINER IS
13 INCHES WIPE
X 100 FEET LONG,
SO THERE'S PLENTY
TO TAKE CARE OF ALL
THE VEHICLES IN YOUR
UNIT'S MOTOR POOL.

CHANGE THE LINER ONCE IT BECOMES SOAKED WITH BATTERY ACID OR STARTS TO DETERIORATE.

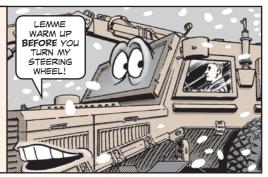


Buffalo M1272 Route Clearance Vehicle...

## BUFFALOING ENEMY MINES

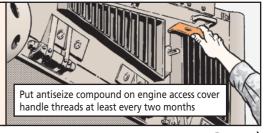


In cold weather, let the fluid warm up before moving the steering wheel (about 30 minutes). Follow the CAUTION placard on the instrument panel: DO NOT FORCE THE STEERING WHEEL TO TURN WHILE VEHICLE IS STATIONARY. That can cause power



Put antiseize compound on the engine access cover handle threads at least every two months. Without the antiseize compound, it's easy to crossthread or over-torque the handles. Eventually they break off.

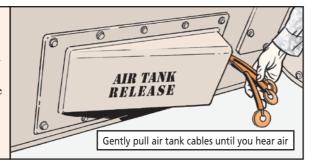
steering cooler leaks.



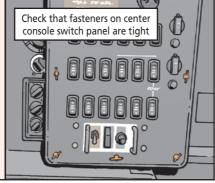


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Don't yank on the air tank pressure relief cables. That breaks the cable after enough yanks. It takes hours to replace a cable. Pull on the cable just until you hear air come out. That's far enough.



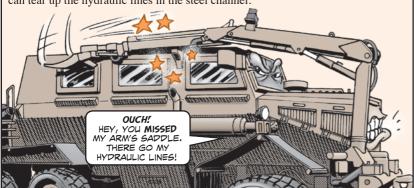
Check during PMCS that the fasteners on the center console switch panel are present and secure. The winghead fasteners (stud, NSN 5325-00-767-8125; retainer, NSN 5330-00-190-1095) usually work loose and disappear. That can leave the panel hanging. But when you tighten the fasteners, don't muscle up. It's easy to strip them out. Just turn the 8 wing-head fasteners 90 degrees clockwise to secure the center switch panel to the center dashboard.

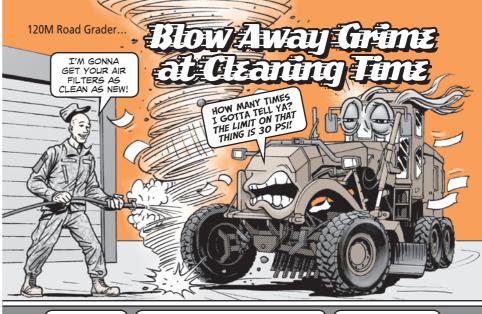


Careful with the interrogation arm when you move it to the driver's side.

The arm must pass close to the vehicle. If you're not alert, you can hit the hood and break the arm's hydraulic fittings.

Make sure to hit the cradle when you stow the arm. If you miss the cradle, you can tear up the hydraulic lines in the steel channel.





CLEAN AIR KEEPS YOUR 120M GRADER GRADING SMOOTHLY. SO WHEN IT'S CLEANING TIME, YOU'LL NEED TO OPEN THE GRADER'S AIR FILTER ELEMENT CANISTER AND PULL OUT THE **PRIMARY AND** SECONDARY FILTERS. USE AN AIR HOSE TO BLOW LOW-PRESSURE AIR (30 PSI OR LESS) FROM THE INSIDE OUT.



NEVER BANG THE FILTER ON A ROCK OR HARD SURFACE LIKE THE GRADER'S TIRE OR MOLDBOARD.



THAT **DAMAGES** THE FILTER AND ALLOWS PIRT TO GET INTO THE ENGINE,



REPLACE THE PRIMARY AIR FILTER ELEMENT, NGN 2940-01-580-0028, ONCE A YEAR OR AFTER SIX CLEANINGS, WHICHEVER COMES FIRST. SAME GOES FOR THE SECONDARY FILTER, NGN 2940-01-579-8964.

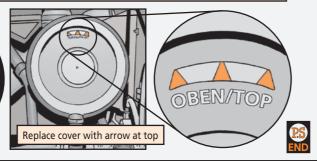


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#### Make the Seal Tight

WITH THE CLEANED FILTER ELEMENTS REINSTALLED, MAKE SURE THE CANISTER LID IS CLOSED COMPLETELY. A TIGHT SEAL IS NEEDED TO KEEP OUT DIRT AND SAND WHICH CAN RUIN YOUR GRADER'S TURBOCHARGER AND ENGINE.

HERE'S HOW:
PLACE THE LID
BACK IN PLACE WITH
ITS TOP ARROWS
POINTING UP TO THE
12 O'CLOCK POSITION.
THEN LISE THE THREE
LATCHES TO LOCK
THE LID SNUG IN
PLACE.





Dear Half-Mast,

One of our units had a question about the central lubrication system (CLS) on their 10K ATLAS and 6K variable reach rough terrain (VRRT) forklifts. The CLSs weren't working and they had no idea how to order parts or service them.

I did some research, but couldn't find anything in the vehicle TMs. Is there a service or parts manual for the CLS installed on these forklifts?

Mr. M.G.

Dear Sir,

Yes, there is. The 10K ATLAS CLS is covered in TB 10-3930-673-13&P-1 (Feb 09). TB 10-3930-660-13&P (Feb 09) covers the 6K VRRT CLS.

Both TBs include installation, maintenance and parts information for the CLS. Units will need to order and install the CLS at their own expense.

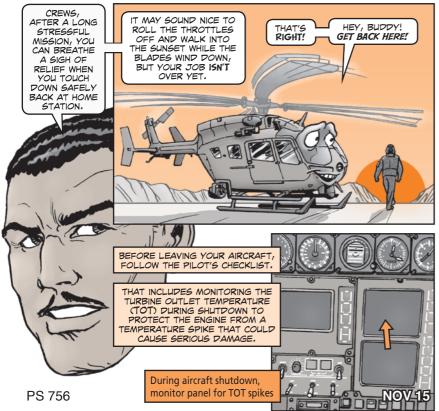
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**NOV 15** 

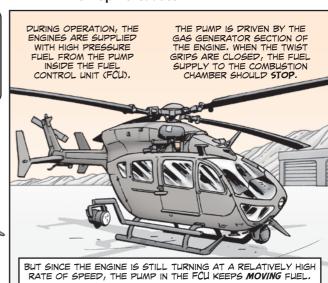


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#### **TOT Spike Causes**



VALVES BUILT IN TO THE SYSTEM SHOULD REDIRECT THE FUEL WHEN THE THROTTLE TWIST GRIPS ARE CLOSED, BUT A THROTTLE MALFUNCTION COULD ALLOW FUEL TO CONTINUE FLOWING INTO THE COMBUSTION CHAMBER.

IF THAT HAPPENS, FUEL INSIDE THE ENGINE WILL CONTINUE TO BURN, THOUGH IT'S LIKELY NOT ENOUGH TO KEEP THE ENGINE RUNNING.

23

THE BIG

QUESTION IS

HOW DOES

A TOT SPIKE

HAPPEN?

ACTUALLY,

THERE ARE A

FEW DIFFERENT

POSSIBILITIES.

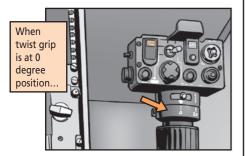
THE MOST COMMON CAUSE FOR THIS SITUATION IS THE RIGGING OF THE FCU.

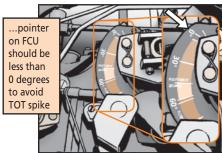
THE PILOT MAY ROLL THE TWIST GRIP ALL THE WAY TO THE **OFF** POSITION, BUT IF THE RIGGING ISN'T CORRECT, THE INPUT TO THE FCU MAY STILL KEEP THE MAIN FUEL VALVE SLIGHTLY OPEN.

UNWANTED FUEL FLOW CONTINUES AND CAUSES A TOT RISE.

THE TWIST GRIPS ARE CONNECTED TO THE FCU BY FLEX BALL CABLES. IT'S NOT UNCOMMON FOR THE CABLES TO **STRETCH** SLIGHTLY OVER TIME, CAUSING THIS OUT OF RIG CONDITION.

THE AIRFRAME'S MAINTENANCE MANUAL STATES THAT WHEN THE TWIST GRIP IS AT THE O PEGREE POSITION, THE POINTER ON THE FCU SHOULD BE "AT OR LESS THAN O."



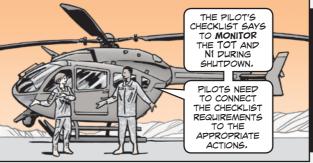


THERE IS ABOUT 5 DEGREES OF TRAVEL AVAILABLE BELOW THE O MARK ON THE FCU.

RIGGING THE SYSTEM TO HAVE A -2 OR -3 PEGREE FCU SETTING WHEN THE TWIST GRIP IS COMPLETELY CLOSEP IS A GOOP IPEA AS LONG AS THE OTHER RIGGING POINTS CAN BE MAINTAINED LIKE THE MAINTENANCE MANUAL SAYS.

#### What to Do?





THE ROTORCRAFT FLIGHT MANUAL (PG 4-25, SEC 4.12) AND PILOT'S CHECKLIST (PG N-29) BOTH DESCRIBE HOW TO VENT THE ENGINES.

60 FLIGHT CREWS NEED TO BECOME FAMILIAR WITH THESE PROCEPURES AND HOW TO STOP TEMPERATURE SPIKES AND THE POSSIBILITY OF A FIRE SHOULD THEY OCCUR.

THE KEY TO EXTINGUISHING THE FIRE INSIDE THE ENGINE IS **AIR FLOW.** 



THE LAKOTA IS EQUIPPED WITH TWO ENG VENT SWITCHES ON THE OVERHEAD PANEL, ONE FOR EACH ENGINE, THAT WERE DESIGNED PRECISELY FOR THIS PURPOSE.

CREWS NEED TO BE VERY FAMILIAR WITH THE LOCATION OF THE VENT SWITCHES SINCE THEY'RE NOT OFTEN USED, THAT'LL HELP AVOID PELAYS IN VENTING THE ENGINE SHOULD A TOT SPIKE OCCUR.

PEPENDING ON THE REAGON FOR THE TOT SPIKE AND THE SEVERITY OF THE CONDITION, THE TEMPERATURE CAN RISE VERY FAST.

VENTING THE ENGINE QUICKLY TO PUT THE FIRE OUT COULD MEAN THE DIFFERENCE BETWEEN A SIMPLE RIGGING ADJUSTMENT AND AN EXPENSIVE ENGINE REPLACEMENT.



THAT'S SOUND LOGIC! IT'S POSSIBLE THAT VENTING THE ENGINE WON'T EXTINGUISH THE FIRE, SO CREWS NEED TO BE READY TO VENT THE ENGINE AGAIN OR TAKE OTHER ACTIONS IF NEEDED.

BECAUSE OF THE DIFFERENT VALVES IN THE FUEL SYSTEM, VENTING USUALLY TAKES CARE OF THE PROBLEM.

IF IT DOESN'T, YOU'LL NEED TO STOP THE FUEL FROM FLOWING INTO THE COMBUSTION CHAMBER.

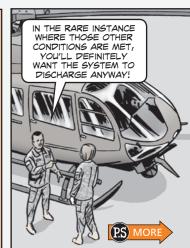
FIRST, ENSURE THAT BOTH THE PILOT AND COPILOT TWIST GRIPS ARE ACTUALLY CLOSED ALL THE WAY.

THERE IS USUALLY SOME SLACK BETWEEN THE PILOT AND COPILOT CONTROLS, SO FULLY CLOSED ON ONE SIDE MAY CAUSE THE PROBLEM, WHILE FULLY CLOSED ON THE OTHER SIDE COULD BE JUST ENOUGH ADDITIONAL TRAYEL TO STOP FUEL FLOW.

IN A VERY FEW
CASES, THE ACTIONS
ABOVE MAY STILL
NOT SOLVE THE
PROBLEM.

IN THOSE
CASES, USE THE
APPROPRIATE
"EMERG OFF"
BUTTON ON THE
WARNING UNIT.

THIS ACTIVATES
THE FUEL SHUT OFF
VALVE FOR THE
AFFECTED ENGINE,
THIS WON'T
AUTOMATICALLY
DISCHARGE THE
FIRE EXTINGUISHING
SYSTEM BECAUSE
OTHER CRITERIA
HAVE TO BE MET
BEFORE THAT CAN
HAPPEN.



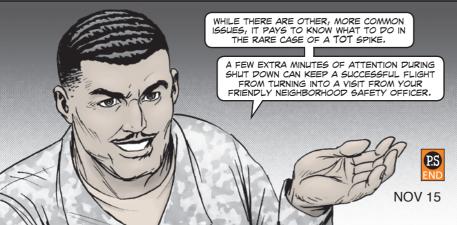
PS 756 24 PS 756 25 NOV 15

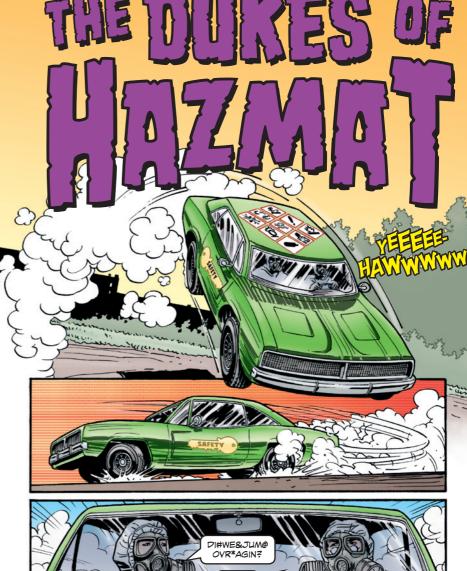


YOU NEEP TO INCLUDE **ALL** THE STEPS TAKEN AS WELL AS THE MAXIMUM TOT REACHEP AND ITS PURATION. ALL OF THIS INFORMATION IS NEEDED TO **DETERMINE** THE PROPER INSPECTIONS AND MAINTENANCE ACTIONS NEEDED TO RETURN THE AIRCRAFT TO SERVICE.



PON'T BE AFRAID TO DISCUSS THE ISSUE WITH YOUR MAINTENANCE STAFF BEFORE MAKING THE ENTRY. THAT CAN AVOID CONFUSION AND CORRECTIONS LATER.





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WHAT?













YEP, SERGEANT X FEELS









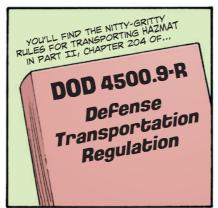














http://www.transcom.mil/dtr/part-ii/dtr part ii 204.pdf

THE DEFENSE AMMUNITION CENTER OFFERS SOME
HAZMAT COURSES...

http://www.dactces.org/

THE ARMY ALSO POSTS HAZMAT REGS, GUIDES AND OTHER HANDY INFO...

https://safety.army.mil/ON-DUTY/Workplace/ HazardousMaterials(HAZMAT).aspx/

WHILE YOU'RE THERE, BE SURE TO READ UP ON THE GLOBALLY HARMONIZED SYSTEM (GHS), THE INTERNATIONAL HAZMAT STANDARDS THAT THE ARMY WILL FULLY ADOPT BY 2016...

https://safety.army.mil/ON-DUTY/ WorkplaceGloballyHarmonizedSystem(GHS).aspx

GRAB THE WHOLE GHS GUIDE AT...

https://www.osha.gov/ dsg/hazcom/ghs.html

LOTS OF CHANGES COMING WITH GHS. FOR STARTERS, STANDARD PICTOGRAMS WILL BE REQUIRED ON ALL LABELS TO ALERT USERS OF CHEMICAL HAZARDS. WHAT THE
ARMY CALLED
MATERIAL
SAFETY DATA
SHEETS (MSDS)
ARE NOW CALLED
SAFETY DATA
SHEETS (SDS).



SPEAKING OF SDS,
SERGEANT, HUNT DOWN
AND PRINT OFF THE SDS
FOR ANY PRODUCTS YOU
USE AROUND THE SHOP,
KEEP 'EM IN HARD COPY
IN A BINDER.

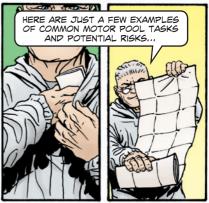
THAT WAY, EVEN IF THE INTERNET IS DOWN, YOU HAVE THE INFO.





THE PEFENSE LOGISTICS AGENCY'S HAZARPOUS MATERIALS INFORMATION RESOURCE SYSTEM IS THE PRIMARY POP REPOSITORY FOR SPS. GO TO: http://www.logisticsinformationservice.dla.mil/hmirs/





Operation or Process	HAZMAT Sources
Painting	Thinners, heavy metals, polyurethanes, waste epoxy, paint strippers
Vehicle maintenance	Used oils, lubricants, coolants, petroleum, alcohols, solvents, asbestos (brake linings)
Cleaning, degreasing	Solvents, detergents, ketones, refrigerants
Electrical/electronic maintenance	Heavy metals, PCBs
Battery shop operations	Acids, bases, cyanides, heavy metals
Washracks and motor pools	Used oil, solvents, heavy metal contaminated sludges
Disaster/CBRN preparedness	Bleach, decontaminating gasses (ethylene oxide) and liquids

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WOW! APPS
UP TO A LOT
OF POTENTIAL
RISK, HOW PO
I PROTECT
EVERYONE?







REMEMBER THAT EYES ARE ESPECIALLY VULNERABLE.
RUBBER-FRAMED GOGGLES WITHOUT VENTILATION
HOLES OR PLASTIC FACE MASKS CAN PROTECT YOUR
EYES FROM MIST, SPRAYS OR SPLASHES FROM
PANGEROUS ACIDS OR ALKALI SOLUTIONS.













EQUIPMENT NEEDS TO BE CLEANED AFTER EACH USE BEFORE I'S PUT AWAY.

KEEP THE
INSIDE OF
GLOVES,
BOOTS AND
GOGGLES
CLEAN. IF
EQUIPMENT IS
CONTAMINATED,
CLEAN OR
PISPOSE OF IT
PROPERLY.









YOU CAN START BRUSHING UP ON THOSE REGS NOW. THE 385 PUB SERIES COVERS SAFETY-RELATED TOPICS.

IF Y'ALL WANT TO REVIEW TYPES OF PROTECTIVE CLOTHING AND EQUIPMENT, READ CHAPTER 4 IN DA PAM 385-61, TOXIC CHEMICAL AGENT STANDARDS.

















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Urban Operations Squad Set...

IF YOUR UNIT LISES THE URBAN OPERATIONS SQUAD SET. NSN 5180-01-563-6719, AN IMPROVED MINI THERMAL MONOCULAR (MTM) IS NOW AVAILABLE.

# Improved Mini Thermal Monocular

THE MTM-PRODUCT IMPROVED (MTM-PI) IS AN UPGRADE TO THE SET'S CURRENT MTM.

ITS THERMAL VIEWER/CAMERA HAS BETTER RANGE CAPABILITY, RESOLUTION, AND PHOTO AND VIDEO CAPTURE.

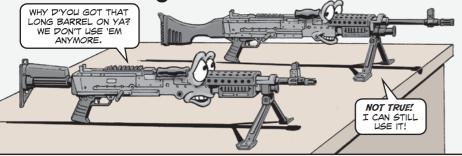
THE IMAGES THE MTM-PI RECORDS CAN BE DOWNLOADED TO A CD/DVD FOR LATER USE. IT'S DESIGNED TO BE HAND-HELD, BUT CAN ALSO BE MOUNTED ON A HELMET OR TRIPOD.

ORDER THE MTM-PI WITH NSN 5855-01-590-9103.

QUESTIONS?

CONTACT DAN STARK AT (586) 239-3678 OR EMAIL: daniel.g.stark.civ@mail.mil

## M240L Long Barrel OK For M240B



**MWO** 9-1005-313-23-4 replaced the M240L long barrel with a short one to increase the M240L's usefulness.

But that doesn't mean those long barrels, NSN 1005-01-549-8497, no longer have a purpose. The Army has authorized them for the M240B. Use them on the M240B until they fail gaging. If you don't have the M240B, transfer the long barrels to a unit that does.

For more info, see TACOM LCMC maintenance information (MI) message 15-004. It's available at: https://tulsa.tacom.army.mil/Maintenance/message.cfm?id=MI15-004.html

New Equipment Available for Urban Operations Sets

IF YOUR UNIT USES THE URBAN OPERATIONS SQUAD SET, NSN 5180-01-563-6719, OR THE URBAN OPERATIONS PLATOON SET. NSN 5180-01-631-3029...

...NEW EQUIPMENT IS AVAILABLE!



THE LADDER IS 12 FEET LONG AND CAN BE USED FOR BRIDGING HORIZONTAL GAPS AND FOR VERTICAL CLIMBING.

IT'S MADE OF AIRCRAFT-GRADE ALUMINUM, HAS 2-FT REPLACEABLE SECTIONS AND CAN HOLD UP TO 350 POUNDS VERTICALLY OR HORIZONTALLY.

THE LADDER KIT INCLUDES THE LADDER, HOOKS, WHEEL ATTACHMENT, LANYARD, BALLISTIC SHIELD AND CARRIER.



THE KIT INCLUDES AN UNDER-DOOR CAMERA, INFRARED POLE CAMERA, FIBERSCOPE AND A REVERSE PEEPHOLE SCOPE.

THE UNDER-DOOR AND IR POLE CAMERAS CAN BE USED IN EITHER WIRED OR WIRELESS MODE AND CAN RECORD TO AN SD CARD (VIDEO/AUDIO FOR THE UNDER-DOOR CAMERA, BUT VIDEO ONLY FOR THE IR CAMERA).

THE KIT HAS A 16-HR RECORDING CAPACITY AND MORE THAN 100 FEET OF LINE-OF-SIGHT TRANSMISSION.

IF YOU HAVE **QUESTIONS** ABOUT EITHER URBAN OPERATIONS KIT, CONTACT PM SKOT'S DAN STARK AT (586) 239-3678, OR EMAIL: daniel.g.stark.civ@mail.mil

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## Fasteners... STANDARD VS METRIC: IT MAKES A DIFFERENCE!





#### Dear Editor,

I often find new mechanics using standard wrenches and sockets on metric bolts and vice versa. They either don't know how to tell the difference or they think it doesn't make any difference.

But it does make a difference. Using the wrong tool rounds off the bolt head and eventually it becomes difficult to remove the bolt. And when the wrench slips off the bolt, you can be injured.

It would be great if PS showed how to tell the difference between standard and metric fasteners and how to ID their grade/class.

> CW2 Melissa Fredericks KYARNG London, KY

#### **Editor's note:** We agree, Chief. Here's the lowdown:

Bolts can be IDed by their head markings. If the bolt head is marked with 8.8, 10.9 or 12.9, it's a metric bolt and diameter, head, length and thread pitch are measured in millimeters.

*If the bolt has only three or six lines pointing toward the center of the head,* the bolt is standard SAE (Society of Automotive Engineers).

Bolts are also classed for strength: grade for SAE and class for metric. Strength is measured by tensile strength, the load that the bolt can withstand before breaking, and yield strength, the maximum load at which the bolt shows .2 percent deformation.

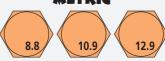
#### **SAE Steel Bolts**

Head Marking	Grade and Material	Bolt Diameter (inches)	Minimum yield strength (Ksi)*	Minimum tensile strength (Ksi)	
No markings	Grade 2 (low or medium carbon steel)	1/4 - 3/4	57	74	
3 radial lines	Grade 5 (medium carbon steel, quenched and tempered)	<sup>1</sup> /4 - 1	92	120	
6 radial lines	Grade 8 (medium carbon alloy steel, quenched and tempered)	<sup>1</sup> /4 - 1 <sup>1</sup> / <sub>2</sub>	130	150	
Stainless markings vary. Most stainless is non-magnetic	18.8 stainless steel	1/4 - 5/8	40-90	100-125	

#### STANDARD



#### METRIC



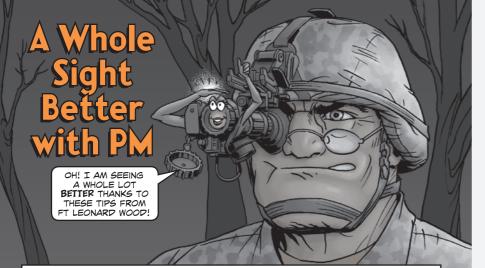
#### Metric Steel Bolts

Head Marking	Grade and Material	Bolt Diameter (inches)	Minimum yield strength (Ksi)*	Minimum tensile strength (Ksi)
8.8	Class 8.8 (medium carbon steel, quenched and tempered)	up to 72 mm	93	116
10.9	Class 10.9 (alloy steel, quenched and tempered)	5mm- 100mm	136	151
12.9	12.9 Grade 12.9 (alloy steel, quenched and tempered) 1.6mm		160	177
Metric stainless typically marked A-2	A-2 stainless steel	up to 20mm	65	102

This is a good story for repairmen to copy and keep in their tool boxes.

\*KSI=1,000 psi

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Dear Editor

We repair sights here at the Ft Leonard Wood LRC. We think these tips might help units keep their sights a whole sight better.



## Never leave batteries installed when sights are stored for long periods.

Batteries leak and often ruin sights. The Army loses thousands of dollars every year because Soldiers don't follow this rule. Make it SOP to remove the sight batteries when turning in the sight for storage.

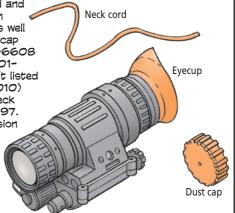


## Keep the ANIPVS-14 night vision device dust cap, neck cord and eyecup installed.

They often disappear in the field and Soldiers don't bother getting them replaced. Your sight won't work as well if these items are gone. The dust cap comes with NSN 5340-01-397-6608 and the eyecup with NSN 5855-01-246-8273. The eyecup NSN isn't listed in TM 11-5855-306-10 (Oct 2010) but is listed in the -23&P. The neck cord is NSN 4020-01-446-8097.

If you're not using your night vision device, keep the lens cap on. The cap protects not only the lens, but also protects the image intensifier from sun damage.

Keep track of AN/PVS-14 neck cord, evecup and dust cap



If you remove the AN/PVS-14's light interference filter (LIF), remember to reinstall it.

The LIF is another item that's often forgotten. It protects the sight from lasers and the sun.





Remember to reinstall AN/PVS-14 light interference filter

## Make sure the battery cap for the COMP M4 M68 reflex sight doesn't lose its contact.

The cap's rubber grommet and coiled spring contact can easily disappear when the cap is off. Then when the cap is screwed back on, you can't figure out why the M68 has no power. If the contact does disappear, order a new cap with NSN 6160-01-547-4333.



Check M68 reflex sight battery cap for contact *before* screwing it in

Johnny Vaughn
Dal Campbell
Ft Leonard Wood, MO

Editor's note: We can clearly see these are great tips! Thanks again for all the help from Ft Leonard Wood LRC.

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Exercise, exercise, exercise. If you sat in the corner for months without any attention, you'd be in sad shape. It's the same with your Javelin. If you ignore it, it'll be in sad shape when you do need it.

Just putting the battery in and letting the command launch unit (CLU) run for 30 minutes at least monthly gives the built-in-test a chance to detect problems. And if you do the PMCS in the TM, you can be sure your Javelin is ready for action. This also gives operators a chance to refresh their Javelin training.

But remember to remove the battery when you're done.



Keep and use the storage case. The storage case is specifically designed to protect the CLU. But often the case disappears and units substitute another case. Bad move! If a Javelin is shipped in the wrong case and is damaged, units can be held responsible. Plus units are accountable for the case itself.

If a storage case disappears or is damaged, get it replaced ASAP. Contact the Javelin Integrated Technical Operations Center at (888) 528-4862 or email:



jvitoc@jvjavelin.com

nail: and nothing else!

Use rechargeable batteries for training, but not for the real thing. Use rechargeable BB-390B/U batteries, NSN 6140-01-490-4317, for training. But for actual Javelin firing, use the standard BA-5590/U battery, NSN 6135-01-438-9450, or the BA-5390/U battery, NSN 6135-01-501-0833.



## Equipment with Radioactive Material? You Need RSO Training

If your unit has any equipment with radioactive material, you need a radiation safety officer (RSO). Since a variety of sights, aiming devices and CBRN equipment contain radioactive material, that means practically every unit needs an RSO.

To become an RSO, a Soldier must complete the U.S. Army Chemical School's Basic Radiological Safety Course. The 5-day course covers all the basics of radiation and radioactive materials, including DOD certification for oversight of any radiation-emitting items.

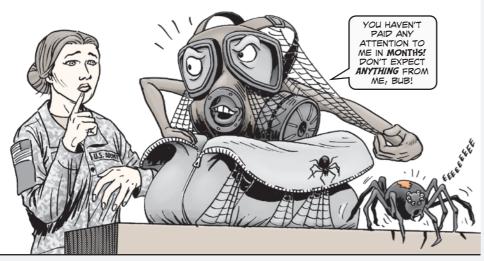
To sign up for the course, go to: https://www.atrrs.army.mil/atrrscc/ Enter 4J-F2/494-F9 for the COURSE NUMBER.

The Chemical School also offers courses in advance radiation safety and DOT Class 7 Radiological Packaging.

For more information, contact the Chemical School's Eric Hanson at DSN 676-6207, (573) 563-5207, or email: eric.r.hanson1.civ@mail.mil

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## M40/M42-Series USE IT OR LOSE IT!



Dear Editor,

From my experience maintaining M40/M42 masks, I offer a few suggestions to help CBRN specialists keep their masks breathing freely.

Use it or lose it. Too many M40/M42s sit in their carriers until the annual trip to the gas chamber. Soldiers have no idea how to PMCS their masks or what condition their masks are in.

Sergeants' Time is a good time to go over how to PMCS a mask. But Soldiers should also practice wearing the mask. Shooting a rifle while wearing a mask is much different than without. Some units play a sport like softball or volleyball with everyone wearing masks just to give Soldiers an idea of what's it like to be active with a mask on.



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Make sure Soldiers fill out a DA Form 5988E when they do PMCS. That's the only way problems they find will be fixed.



Teach Soldiers not to route the drink tube through the hole in the facepiece. That's a drainage hole for sweat and spit and other things you don't want in your mask.



Don't fold the mask when you put it in the carrier. That ruins the mask. The mask goes in the carrier in the upright position with the eye lenses facing away from your body when worn in the shoulder, leg or loadbearing harness positions.



nses facing away from body

Track canisters. I still see the old black C2 canisters being used. Those were replaced by the green C2A1 canisters years ago.

Also, watch for the C2A1 expiration dates. The easiest way is to create a spreadsheet listing each mask number along with its canister number. You can then easily check for expired canisters in JACKS:

https://iacks.ipeocbd.osd.mil/ Default.aspx

Look for cracks in the facepiece. Improper storage and dry rot take a toll on M40/M42 masks.



Make sure each carrier has both the -10 TM and the operator's cards. Soldiers need both when they're doing PMCS and you'll need both to pass inspection. Order the cards with NSN 7960-01-491-9282.

SSG Brandon Milhouse CBRN School Ft Campbell, KY



**Editor's note:** Great info, Sergeant. Lots of Soldiers will breathe easier thanks to your tips.



## JCAD Needs M42 Alarm!



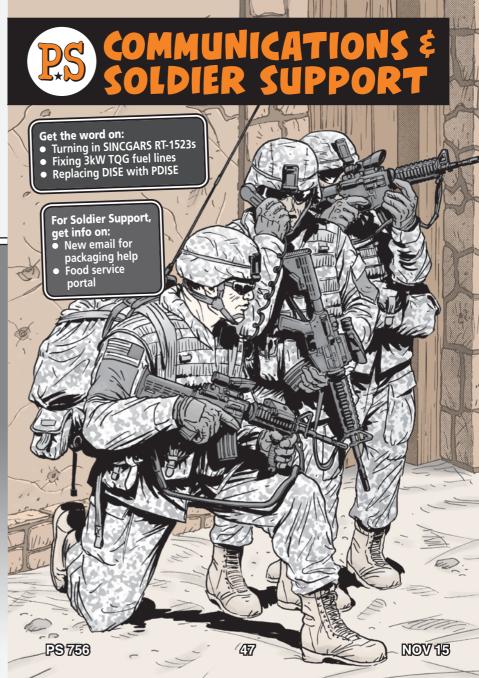


CBRN SPECIALISTS,
WHEN YOU GET
THE NEW M4 JCAD
(JOINT CHEMICAL
AGENT PETECTOR),
NSN 6665-01-552-2704,
OR M4A1,
NSN 6665-01-586-8286,
YOU SHOULD TURN IN
THE M22 ACADA
(ALARM, CHEMICAL
AGENT, AUTOMATIC)
OR M43A1 CHEMICAL

BUT **DON'T** TURN IN THE M42 ALARM, N\$N 6665-00-859-2215, YOU **WILL** NEED IT FOR THE JCAD. TURN IN THE M42 **ONL**Y IF IT'S EXCESS.

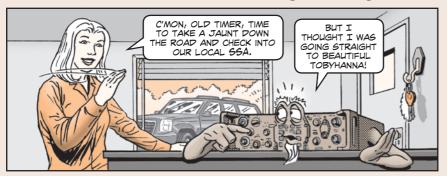
AGENT DETECTOR.



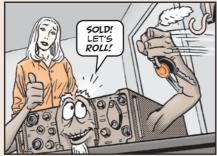


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## Turn in SINCGARS RT-1523s to SSA







The Army's Single Channel Ground and Airborne Radio System (SINCGARS) Receiver-Transmitter (RT) Exchange Program has been a big success.

More than 30,000 SINCGARS RT-1523s, Plain through D models, were sent to Tobyhanna Army Depot for demil. The RT models to be swapped out included NSNs 5820-01-234-8093, 5820-01-318-7990, 5820-01-365-2725, 5820-01-363-6929 and 5820-01-410-8981.

However, with the huge number turned in, CECOM LCMC found that property accountability issues popped up if units bypassed their servicing supply support activity (SSA) when returning swapped-out SINCGAR RT-1523s.

The main problem is that there are long delays for units to get signed DD Form 1348s for the swapped-out RT-1523s. That's because there's no automated process at the Defense Logistics Agency (DLA) to retrieve DD Form 1348s and return them to units.

If your unit returned RT-1523s to Tobyhanna, you can request a signed DD Form 1348 for the swapped-out RTs by emailing DLA at: dlacontactcenter@dla.mil

Units, turn in any remaining RT-1523s directly to your supporting SSA. That way a property book transaction occurs immediately, removing the RTs from your property book and relieving your unit of accountability.

For questions or help, contact Michael Dooney at DSN 648-6296, (443) 395-6296, or email: michael.dooney1.civ@mail.mil



DRIP,

DRIP,

TYS A
SOUND
THAT
CAN
DRIVE
YOU
NUTS.

BUT IF THAT
PRIPPING IS COMING
FROM A FUEL LEAK,
YOU'VE GOT A LOT
MORE TO WORRY
ABOUT THAN A LITTLE
PISTRACTION!



THE FUEL INJECTOR RETURN LINE ON THE MEP-83(A AND MEP-832A 3-KW TACTICAL QUIET GENERATORS (TQGS) IS A KNOWN LEAKER.

THE HOSE IS JAMMED ONTO THE FUEL INJECTOR INLET AND RELIES ON FRICTION TO KEEP IT IN PLACE, CONSTANT VIBRATION CAN LOOSEN THE HOSE AND DRIPPING FUEL IS THE RESULT.

THAT CAN LEAD TO A FIRE.

DRIP,

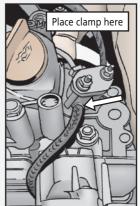


HERE'S THE FIX:

REMOVE THE FLEXIBLE HOSE FROM THE FUEL INJECTOR, SLIDE A CLAMP

OVER THE HOSE,
THEN RECONNECT
IT TO THE
INJECTOR.
SLIP THE CLAMP
UP TO THE
CONNECTION
POINT AND
TIGHTEN.

YOU'LL FIND THE PROCEDURE ON PAGE 3-18 OF TM 9-2815-257-24 (NOV OO).



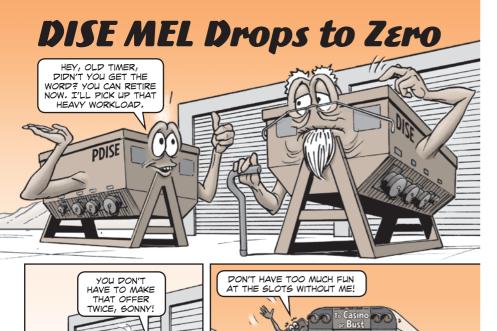
ORDER THE
CLAMP USING
PN 9579K62
AND
CAGE 30554
ON A DD FORM
1348-6.

WITH THE CLAMP IN PLACE, THE FIRE THREAT IS GONE.



YOU WON'T HAVE TO WORRY ABOUT THAT **DRIP, DRIP, DRIP** NOISE ANYMORE, EITHER.

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**T**ake note of an important change, units. CECOM LCMC reviewed the maintenance expenditure limit (MEL) for the M40, M60, M100 and M200 distribution illumination systems, electrical (DISE). CECOM determined that the MEL of 25 percent listed in TB 43-0002-32 (Jul 95) is too high for these systems.

THE TB IS IN THE MEANTIME, NOTE THAT THE MEL PERCENTAGE FOR UNDER REVISION. THE FOLLOWING OLDER DISE SYSTEMS IS NOW ZERO...

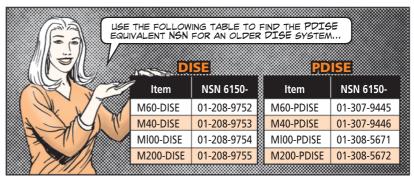
Nomenclature	NSN 6150-		
Distribution system elec: 120V 1PH 60 AMP	01-208-9752		
Distribution system elec: 120/208V 3PH 40 AMP	01-208-9753		
Feeder system electrical: 3PH 100 AMP	01-208-9754		
Feeder system electrical: 3PH 200 AMP	01-208-9755		

PM-E2S2 has fielded the newer power distribution illumination systems, electrical (PDISE) to replace the remaining DISE sets in the field. If your unit still has authorized DISE sets or has DISE sets in lieu of PDISE authorized systems, contact Randy Morgan, DSN 654-3168, (703) 704-3168, or email:

#### randy.l.morgan.civ@mail.mil

Or Israel Sanchez, DSN 654-1080, (703) 704-1080, or email:

israel.sanchez4.ctr@mail.mil



When requesting PDISE from PM-E2S2, include your unit's UIC, the PDISE NSN(s) and the quantity needed to fill your authorizations. PM-E2S2 will work with you and higher headquarters to issue replacement PDISE ASAP.

Also include your unit's property book officer's contact information and a complete DODAAC shipping address to expedite shipment.

Note that any on-hand DISE sets must be turned in to DLA Disposition Services after receipt of equivalent, authorized PDISE.

Questions? Contact John Mansfield at (410) 670-5737, or email:

#### john.k.mansfield2.civ@mail.mil

Or Scott Mahoney, DSN 648-6242, (443) 395-6242, or email:

scott.h.mahoney4.civ@mail.mil

#### **New LOGSA PSCC Email for Packaging Help**

The Logistics Support Activity's (LOGSA) Packaging, Storage and Containerization Center (PSCC) Packaging and Transportation Division has a new email address for support: usarmy.tyad.usamc.mbx.pt@mail.mil

#### Pop into Food Services Portal

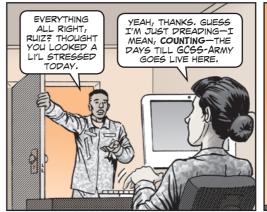
The Quartermaster School's Joint Culinary and Food Services portal is now open. It includes training materials, regulations and a virtual library covering the ins-and-outs of military food services. Grab your CAC, log in to AKO and check it out at:

https://www.us.army.mil/suite/page/697080/

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# Get GCSS-Army Training For Record From GTRAC



HEY, NO NEED TO STRESS OUT. TAKE THE GTRAC TRAINING NOW, SO YOU'LL BE BETTER PREPARED WHEN THE SWITCH HAPPENS.



CLOE, WHERE DO I GET GCSS-ARMY TRAINING FOR RECORD?



SERGEANT, THE GCSS-ARMY TRAINING AND CERTIFICATION (GTRAC) SYSTEM IS THE MAIN SOURCE FOR WEB-BASED TRAINING (WBT) FOR RECORD.



IT'S GOOD THAT YOU'VE ASKED THIS QUESTION NOW BECAUSE GCSS-ARMY'S WBT IS A PREREQUISITE FOR ATTENDING THE NEW EQUIPMENT TRAINING (NET) TAUGHT IN THE CLASSROOM BEFORE GCSS-ARMY GOES LIVE.

YOUR GO-LIVE DATE VARIES
DEPENDING ON WHERE YOU'RE
LOCATED, SO CHECK SCHEDULES IN
THE GCSS-ARMY FIELDING CENTER.
GO TO:

#### https://gcss.army.mil/

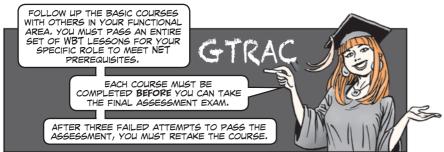
CLICK ON FIELDING CENTER IN THE TOP MENU.

IDEALLY, THE WBT SHOULD BE COMPLETED 1-2 MONTHS BEFORE NET TRAINING. GIVE YOURSELF PLENTY OF TIME TO COMPLETE THE WBT LESSONS, PASS THE EXAMS AND GET YOUR CERTIFICATE OF COMPLETION FROM GTRAC.

NEW STUDENTS SHOULD START WITH THESE FOUR COURSES:

- GCSS-Army Overview
- Basic Navigation
- Intermediate Navigation
- Use GCSS-Army Reports

PS MORE



TO LEARN MORE AND TO DOWNLOAD THE GTRAC SMART BOOK, VISIT: https://www.gcss.armu.mil/Training/GTRAC.aspx



### **SDDCTEA Shows New Face**

here's a fresh new face on the web! Check out the Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA) public website at:

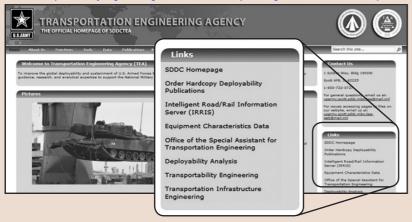
http://www.sddc.army.mil/sites/tea/Pages/default.aspx

To get free hard copies of various deployability pubs, click on Order Hard Copy Deployability Publications in the right-hand "Links" column. Click the Transportability Engineering link to get transportation mode criteria, TEA modal instructions, papers on vehicle weight growth and other transportation assets.

A new rail tiedown lessons learned section also supplements TEA MI 55-19, Tiedown Instructions for Rail Movements (Apr 15). You'll find the rail tiedown lessons learned at:

http://www.sddc.army.mil/sites/TEA/Functions/Deployability/

TransportabilityEngineering/MODES/RailTransport/Pages/LessonsLearned.aspx



**Maintenance Management...** 

## **SMR Codes Updated**





THAT'S BECAUSE OF CHANGES MADE TO REG-ULATIONS THAT AFFECT THE JOINT SERVICES.

FOR THE ARMY, THESE CHANGES ARE COVERED IN A MAJOR REVISION OF AR 700-82, JOINT REGULATION GOVERNING THE USE AND APPLICATION OF UNIFORM SOURCE MAINTENANCE AND RECOVERABILITY CODES (AUG 14).



SINCE WE'RE ON THE SUBJECT, NOW'S THE PERFECT CHANCE TO TAKE A MINI SMR CODE REFRESHER COURSE!

NEW SOLDIERS AND OLD HANDS WHO FEEL A LITTLE RUSTY ON THE TOPIC MAY FIND THIS SUMMARY HELPFUL.



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#### **Breaking Down SMR Codes**



YOU CAN FIND SMR CODES AT THE BEGINNING OF EVERY REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) SECTION IN TMS ENDING WITH A "P" OR "&P."

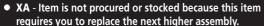
THE CODE FORMAT HAS FOUR PARTS:

- A TWO-POSITION SOURCE CODE
- A TWO-POSITION MAINTENANCE CODE
- A RECOVERABILITY CODE
- AN OPTIONAL SERVICE-SPECIFIC CODE

#### Source

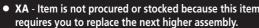


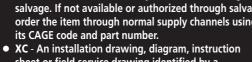
- P Procured. Items with a P are centrally procured.
- K Kit. Sometimes items in kits don't have NSNs. In cases where an item is part of a kit and is also an item outside the kit, the P series source code is used.
- M Manufactured. The item is manufactured or fabricated at specified maintenance activities.
- A Assembled. The item is assembled at a maintenance activity.
- X Not stocked. (See "Key to X Codes" for descriptions).



- XB A support item not expected to fail and not stocked. In some cases, it may be available through salvage. If not available or authorized through salvage, order the item through normal supply channels using
- sheet or field service drawing identified by a manufacturer's part number.
- purchase or requisition this item through normal supply channels using its CAGE code and part number.

#### **Key to X Codes**





• XD - A support item that is not expected to fail but cannot be replaced by salvage/cannibalization. Local

#### Second Position

THE SECOND POSITION ADDS SPECIFIC INFO TO THE GENERAL SOURCE CODE OF THE FIRST POSITION.



FOR EXAMPLE, PA IS A PROCURED AND STOCKED ITEM. PH IS A STOCKED AND PROCURED ITEM BUT CONTAINS HAS SPECIAL REPORTING REQUIREMENTS. PZ MEANS AN ITEM WAS ONCE PROCURED BUT IS NOW TERMINAL OR OBSOLETE WITH TO REPLACEMENT, SO YOU CAN'T ORDER IT.



#### Maintenance

THE THIRD AND FOURTH POSITIONS DEFINE WHAT LEVEL OF MAINTENANCE IS ASSIGNED TO AN ITEM.



#### **Third Position**

THE LOWEST LEVEL AUTHORIZED TO REMOVE, REPLACE OR USE THE ITEM IS DEFINED BY THE FOLLOWING CODE ...

- C Operator/crew
- O Organization/unit
- F Installation/field/intermediate level or aviation support battalion (ASB)
- H Installation/field/below depot sustainment
- K Contractor facility
- L Specialized repair activity or Theater Aviation Sustainment Maintenance Group (TASMG)
- **D** Depot



THE FOURTH POSITION USES THE SAME CODES AS POSITION THREE, BUT TELLS YOU THE LOWEST MAINTENANCE LEVEL THAT IS CAPABLE AND HAS THE RESOURCES TO PERFORM A COMPLETE REPAIR.

A "COMPLETE REPAIR" MEANS THE ITEM WILL RETURN TO SERVICE WHEN REPAIRED. A "COMPLETE REPAIR ACTION" MEANS THAT ALL MAINTENANCE (REMOVE, REPLACE, REPAIR, ASSEMBLE AND TEST) FOR THE ITEM MUST BE PERFORMED AT THAT LEVEL.



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# Keep This SMR Chart Handy!

JOINT SERVICE CODING REFERENCE CHART										
	SOURCE				MAINT	MAINTENANCE		RECOVERABILITY		
1ST		2ND POSITION	2ND POSITION 3RD POSITION		4TH POSITION		5TH POSITION		6	
		Means of Acquiring Support			USE:		REPAIR:		DISPOSITION:	
6	A B C	ITEM: Stocked ITEM: Stocked, Insurance ITEM: Stocked, Deteriorative ITEM: Support, Initial Issue or Outfitting and Stocked Only for Additional Initial Issue			Maintenance level and/ or maintenance activity outhorized to remove/ eplace the item.	or w	aintenance level and/ maintenance activity ith capability to perform implete repair actions.	l r	When unserviceable or uneconomically repairable, condemn or dispose.	
P	E	EQUIPMENT: Support, Initial Issue or Outfitting and Stocked Only for Additional Initial Issue	F	С	Operator/Crew	С	Operator/Crew	С	Operator/Crew	S
(Procured)	F	EQUIPMENT: Support, Non-Stocked, Centrally Procured on Demand	1	0	Organization / Unit	0	Organization / Unit	0	Organization / Unit	E R
	G	ITEM: Stocked for Sustained Support, Uneconomical to Produce at Later Time ITEM: Stocked, Contains hazardous materials, Hazardous Materials	E L D	F	Installation/Field/ Intermediate level	F	Installation/Field/ Intermediate level	F	Installation/Field/ Intermediate level	V
	H R	Information System/Material Safety Data Sheet reporting required  Terminal or Obsolete, Replaced		_	or afloat	_	or afloat	'	or afloat	Ċ
	Z	Terminal or Obsolete, Replaced			Both ashore					-
1/	D	ITEM: Depot on hand and Maintenance Kits		G	and afloat	G	Ashore and afloat	G	Ashore and afloat	0
(Kit)	F	ITEM: Maintenance Kit, Place at O,F,H,L								P
M	O F	ITEM: in Both Depot Repair & Maintenance Kits  Manufacture (MFG) or fabricate (FAB) at Unit Level  MFG OR FAB at intermediate/field level  MFG OR FAB at intermediate/sustainment level	S U S	н	Installation/Field/ Sustainment or ashore	Н	Installation/Field/ Sustainment or ashore	н	Installation/Field/ Sustainment or ashore	T I O N
(Manufactured)	L G D	MFG OR FAB at Intermediate/sustainment level  MFG OR FAB at Specialized Repair Activity (SRA)  MFG OR FAB Both Afloat and Ashore (Navy Only)  MFG OR FAB at Depot Maintenance Level	T A	K	Contractor Facility	K	Contractor Facility	K	Contractor Facility	CO
	0	ITEM: Assembled at Unit	1							D
A	F H L	ITEM: Assembled at intermediate/field level ITEM: Assembled at intermediate/sustainment level ITEM: Assembled at Specialized Repair Activity (SRA)	N M	L	Specialized Repair Activity	L	Specialized Repair Activity	L	Not Authorized Below Depot Level	E S
(Assembled)	G	ITEM: Assembled at Specialized Repair Activity (SNA)  ITEM: Assembled Afloat and Ashore (Navy Only)  ITEM: Assembled at Depot Maintenance Level	E N	D	Depot	_	Danet	D	Field level repairable: Condemn or	
V	A B	ITEM: Requisition Next Higher Assembly ITEM: Not Procured or Stocked. Available thru salvage.	Т	U	Depot	U	Depot	U	Dispose at Depot	
(Not Stocked)	С	Requisition by CAGE/Part Number.  Manufacturer/installation Drawing, Diagram, Instruction Sheet. Identify by Cage/Part Number.		Z	Reference Only	Z	Non-repairable	Z	Non-repairable	MORE
(	D	Not Stocked. Obtain via Local Purchase.				В	Recondition	A	Nonrepairable, needs special handling	
PS 756		58 NOV 15							Special Harlaning	



PS 756

IN ARMY PROGRAMS,
COPE L MEANS A
SPECIALIZED REPAIR
ACTIVITY OR TASMG.
COPE 0 IS FIELD
LEVEL MAINTENANCE
PERFORMED AT
AVIATION MAINTENANCE
COMPANIES.

CODE Z, MEANING NON-REPAIRABLE, MAY BE USED IN THE FOURTH OR FIFTH POSITIONS. Z-CODED PARTS NEED TO BE REPLACED WHEN THEY GO BAD.

#### **Fifth Position**



THE COPE TELLS YOU WHAT MAINTENANCE LEVEL CAN DETERMINE WHEN AN ITEM IS UNSERVICEABLE OR TOO EXPENSIVE TO REPAIR, AND WHO CAN CONDEMN OR DISPOSE OF THE ITEM.

THE FIFTH POSITION
GENERALLY USES THE SAME
COPES AS THE THIRD AND
FOURTH POSITIONS.

#### Sixth Position



CODE A IN THE ARMY'S SIXTH POSITION MEANS NO DEMILITARIZATION IS REQUIRED BEFORE DISPOSAL.

COPE G APPLIES TO AMMUNITION, EXPLOSIVES OR PANGEROUS ARTICLES THAT MUST BE PEMILITARIZED BEFORE THEY GO TO DLA DISPOSITION SERVICES.

FOR MORE INFORMATION AND A COMPLETE LIST OF CODES AND DEFINITIONS, DOWNLOAD AR 700-82 AT: http://www.apd.army.mil/pdffiles/r700\_82.pdf



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#### FMTV Lift-Towing Restrictions

Operators, do not lift-tow any FMTV vehicles with armor using the M1089/A1 wrecker. Only flat towing is authorized when using these wreckers, just like it says in TACOM ground precautionary action (GPA) message 10-019:

#### https://tulsa.tacom.army.mil/safety/gpm/tacom\_wn/gpa10-019a.html

The GPA does not apply to the M1089A1P2 wrecker, however. The M1089A1P2 can lift-tow armored FMTVs.

#### **GCSS-Army Reminder**

Remember to check the GCSS-Army website for alerts, updated fielding and training schedules and other important info. Visit: https://gcss.army.mil/
Or sign up to get automatic notifications at: https://gcss.army.mil/Support/register.aspx

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