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Just write to:

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1601505

PS Has Your Back!



The Army budget was big over the last 14 years. Lots of new equipment and extensive contractor support. Now one word—sustainment—tells us that something's changed.

That word cements the fact that Army funding is decreasing; end strength is declining, too. The era when supplies were plentiful and Soldiers could hand over most maintenance and repair tasks to contractors has ended.

As contractor support winds down, many Soldiers must learn or relearn how to maintain Army equipment. But the equipment is more complex and the budget is more limited than ever. It's the ultimate challenge of "Do more with less."

We know fewer Soldiers loaded with more responsibilities equals a mighty heavy load in the maintenance lane. Fortunately, that's one area where we can help.

We've got 65 years under our belt at *PS Magazine*, so we've weathered a few drawdowns over the decades. We know it's an uncertain and even scary time, but like always, we've got your back.

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PS COMBAT VEHICLES





HEADS UP, STRYKER MECHANICS! QUITE A FEW DOUBLE V-HULL STRYKERS ARE DEVELOPING LEAKS AT THE OIL PAN DRAIN,

IF ENOUGH OIL LEAKS, THE STRYKER'S C7 ENGINE IS SEVERELY PAMAGED, COSTING YOUR UNIT BIG MONEY.

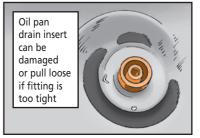


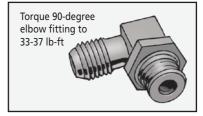
Leaks happen when the 90-degree elbow fitting, which attaches to the oil drain tube, is torqued too tight while attaching it and the fitting adapter to the bottom of the drain pan.

A too-tight fitting can damage the insert where the fitting attaches to the oil pan drain. If the insert is damaged or pulls away from the drain pan, an oil leak starts.

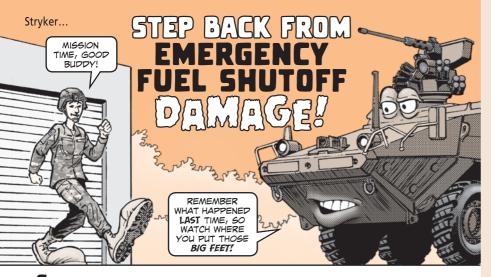
So during services, torque the fitting to 33-37 lb-ft, but no tighter. That will keep the fitting in place and keep leaks from happening.

Oil can leak if insert is damaged or missing





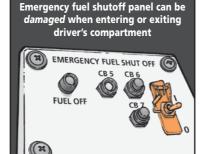
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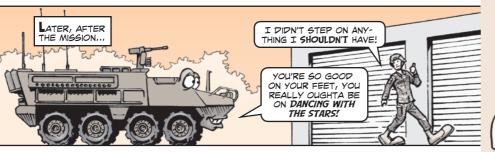


Crewmen, the driver's compartment in your Stryker can be tight quarters. So be very careful to not damage the emergency fuel shutoff panel when you're squeezing in and out of the compartment.

One wrong move and your boots can easily knock the panel, NSN 2910-20-006-8496, out of action. And without a working emergency fuel shutoff panel, your Stryker is NMC! Replacing it will set your unit back about \$2,800.

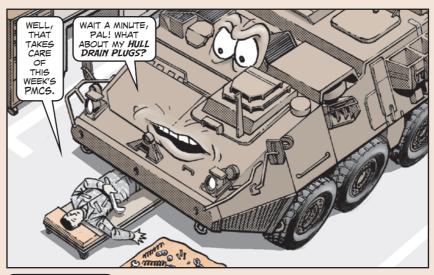
It's also easy for your personal gear, including weapons, to snag the panel and tear off circuit breakers, switch guards and switches. So easy does it when you're getting in and out of the driver's compartment.





Stryker...

PLUG AWAY FUEL PUMP PROBLEMS

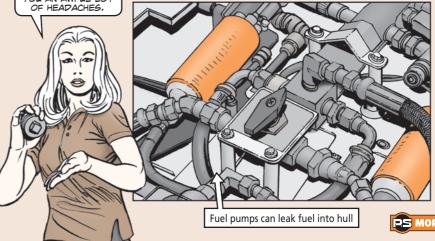


CREWMEN, REMOVING YOUR STRYKER'S HULL DRAIN PLUGS AFTER **EVERY MISSION AND** DURING WEEKLY PMCS CAN SAVE YOU AN AWFUL LOT

A LEAK FROM ONE OF THE ELECTRICAL FUEL PUMPS, LOCATED AT THE REAR OF THE VEHICLE, LETS FUEL COLLECT UNDERNEATH THE FLOOR PLATES.

THE FUMES ARE BAD FOR YOU AND THE SPILLED FUEL COULD EVEN CAUSE A FIRE OR HAZARDOUS MATERIALS (HAZMAT) SPILL

AND THOSE LEAKS CAN GO UNDETECTED FOR A LONG TIME BECAUSE OF THEIR



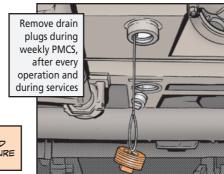
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AVOID THOSE PROBLEMS BY OPENING THE HULL ACCESS DOOR IN THE REAR CENTER FLOOR PLATE DURING WEEKLY PMCS AND AFTER EVERY OPERATION.

LOOK AND SMELL FOR FUEL AND HYDRAULIC FLUID AT THE BOTTOM OF THE HULL.

TELL YOUR MECHANIC RIGHT AWAY IF YOU SEE EVIDENCE OF LEAKS.

IF EVERYTHING CHECKS OUT, OPEN ALL 15 DRAIN PLUGS AND ALLOW ANY COLLECTED MOISTURE TO DRAIN INTO A DRIP PAN.



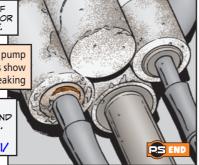
MECHANICS, DURING SERVICES CHECK BOTH OF THE ELECTRICAL FUEL PUMPS' WIRING SEALS FOR SIGNS OF CRACKS, EROSION OR FUEL LEAKAGE.

IF YOU SEE ANY, REPLACE THE PUMP AND SUBMIT A PRODUCT QUALITY DEFICIENCY REPORT (PQDR).

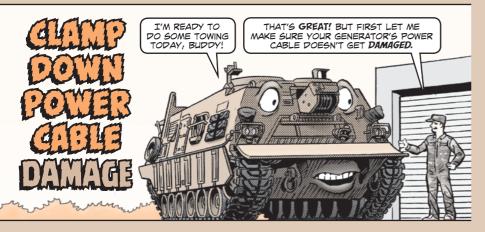
Replace fuel pump if wiring seals show signs of leaking

FILE PQDRS THROUGH THE PRODUCT DATA REPORTING AND EVALUATION PROGRAM (PDREP). ACCESS PDREP AT:

https://www.pdrep.csd.disa.mil/



M88A2 Recovery Vehicle...



echanics, the generator's power cable and the oil line fitting connector in your M88A2 recovery vehicle's engine compartment have been caught rubbing shoulders again.

That's bad because if the connector, NSN 4730-01-032-1393. rubs through the power cable, NSN 2590-01-497-9452, the cable can short out. And that can cause fuel and oil in the engine compartment to catch fire!

You can keep that

from happening by

using a precut hose,

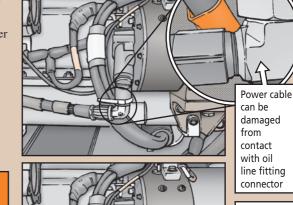
NSN 4720-01-506-

5538, as a protective

sheath over the

power cable.

Here's how:



can be damaged from contact with oil line fitting connector

Secure precut hose. NSN 4720-01-506-5538, with three cable ties, NSN 5975-00-074-2072

1. Replace the power cable before installing the precut hose if it's already been damaged from contact with the oil line fitting connector.

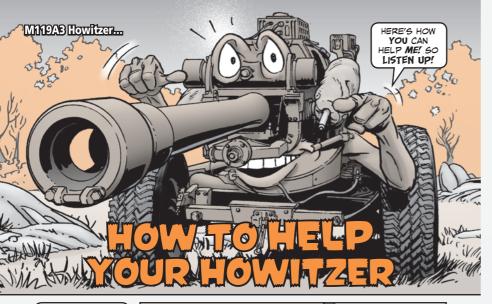
- 2. Clean the area on the cable where you'll install the pre-cut hose with a mild soap and water solution or dry cleaning solvent. That'll remove any oil that could cause the hose to shift.
- 3. Center the hose in the area where the connector makes contact with the cable. The seam of the hose should face outward.
- 4. Use three cable ties, NSN 5975-00-074-2072, equally spaced, to tighten down the hose. Just make sure the center cable tie isn't positioned where it'll make contact with the connector.

Check out TACOM Ground Precautionary Action Message 15-007 for more information. You'll find it on the TACOM-Unique Logistics Support Applications (TULSA) website:

https://tulsa.tacom.army.mil/Safety/message.cfm?id=GPA15-007.html You'll need your CAC and first-time users must request access. Questions? Contact Terry Smart, DSN 282-7849, (586) 282-7849, or email:

terry.d.smart2.civ@mail.mil

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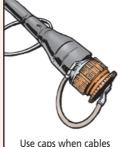


SOMETIMES IT'S THE LITTLE THINGS THAT CAN HELP A BIG GUY LIKE THE M19A3 HOWITZER.

READ AND HEED, HOWITZER CREWS!

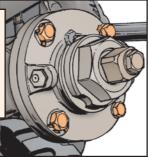


Use caps for the cable connectors whenever the cables are disconnected. Those caps are the only protection the connectors have from dirt and sand that can plug them up. Unfortunately, it doesn't take many trips to the field before caps disappear. Don't wait for the caps to magically reappear. Tell your repairman ASAP so he can get them replaced.



are disconnected

Don't forget key washers when installing bolts for the cradle extension sector gear and the nuts for the saddle. Without the key washers, the bolts and nuts will back out during firing.

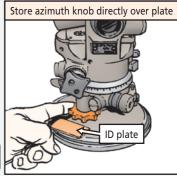


STORE THE
M2 AIMING CIRCLE
PROPERLY TO
PREVENT DAMAGE.

SCREW THE LEGS
ALL THE WAY IN.
STORE THE AZIMUTH
KNOB DIRECTLY
OVER THE ID
PLATE. OTHERWISE,
THE M2 WONT
FIT IN ITS CASE
PROPERLY.



WHEN YOU FORCE THE LID SHUT, THE ELEVATION KNOB'S WORM SHAFT CAN BE BENT. THEN YOU'RE TALKING A MAJOR REPAIR.

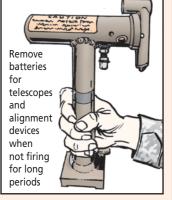


Remove batteries for support equipment when you're not firing for long periods. Otherwise, those batteries leak and the

equipment is damaged by corrosion. Which equipment?

- M187A1 telescope mount,
- M137A2 panoramic telescope,
- M140A1 alignment device,
- M90A3 straight telescope.

Check for the M140A1 alignment device's O-ring. When the M140A1's light kit is removed, the O-ring often disappears. No O-ring means moisture can get in the M140A1 and then you can't see anything. Check for the O-ring after taking off the light kit.



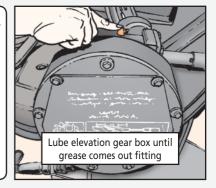
One other M140A1 tip: Don't take off the light kit if the battery goes bad. Just replace the battery. Remember, you'll get much more power from the 3.6V AA lithium battery, NSN 6135-01-523-3198.



DON'T OVERDO LUBING THE ELEVATION GEAR BOX.

IF YOU PUMP AND PUMP GREASE IN THE GEAR BOX, ITS SEALS POP!

JUST PUMP WTR IN THE FITTING UNTIL WTR COMES BACK OUT OF THE FITTING. THEN STOP!



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PS TACTICAL VEHICLES



Lead-Acid Batteries...



CHILL WITH DISTILLED



YOU CAN ORDER SIX 1-GAL UNITS OF **DISTILLED WATER** WITH NSN 6810-00-682-6867. OR GET ONE 5-GAL CONTAINER WITH NSN 6810-00-356-4936.

BOTH
NÉNS ARE
MANAGED BY
THE DEFENSE
LOGISTICS
AGENCY
(DLA). THEY
MAY HAVE
OTHER
DISTILLED
WATER
OPTIONS.

Fill cells with distilled water to within ¹/₄ inch of filler cap neck

FOR HELP OR TO ORDER DLA-MANAGED ITEMS, CONTACT: DLA CUSTOMER INTERACTION CENTER, TOLL FREE: (877) 352-2255, DSN 661-7766, OCONUS DSN (312) 661-7766, (269) 961-7766,

OR EMAIL: dlacontactcenter@dla.mil

ALSO, IF YOUR BASE OR POST HAS A CHEMICAL TESTING AREA, THEY MAY HAVE A READY SUPPLY OF DISTILLED WATER THAT IS SELF-GENERATED OR THEY MIGHT RECOMMEND A LOCAL PROCUREMENT SOURCE.

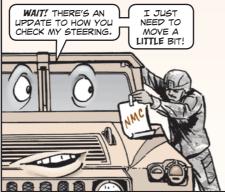


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11

Up-armored MOVEMENT MATTERS FOR STEERING CHECK





Dear Half-Mast.

We've come across an issue about how to properly check the power steering on up-armored HMMWVs.

Item 20 of the Before PMCS in TM 9-2320-387-10 (Item 19 in TM 9-2320-387-13&P) says that with the engine running, the steering wheel should move freely from left to right. If it doesn't, the vehicle is NMC. But with the weight of the vehicle, plus the friction generated between the tire and road, the steering is tough to move on all of our vehicles.

Any chance of an update on this PMCS item? I steering components are all there and serviceable. drivers should be able to drive the vehicle slowly while checking for free movement.

believe that as long as the

Mr. M.D.G.

YOU BET, SIR! TACOM IS WORKING TO UPDATE TM 9-2320-387-10 TO INCLUDE THE CORRECT PROCEDURE. UNTIL THAT HAPPENS, PULL OUT YOUR STUBBY PENCIL AND MAKE A FEW CHANGES.

FIRST, A QUALIFICATION:

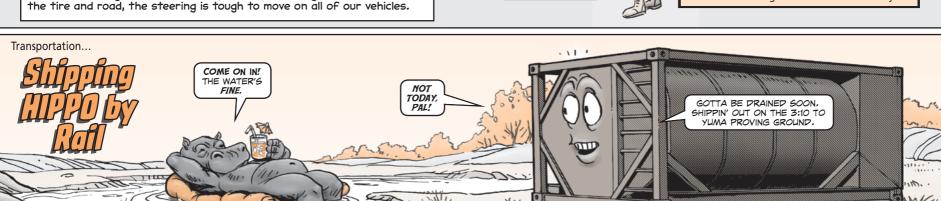
WHILE THE TM SAYS TO MOVE THE STEERING FROM LEFT TO RIGHT, THERE'S NO REQUIREMENT TO TURN IT FULLY FROM STOP TO STOP, DRIVERS WHO DO THAT ARE JUST MAKING THEIR JOBS HARDER.

A HMMWV WITH STEERING THAT TURNS FROM LEFT TO RIGHT WITH NORMAL OR SLIGHTLY MORE THAN NORMAL EFFORT WHILE THE VEHICLE IS SITTING STILL IS USUALLY GOOD TO GO.

BUT WITH THE ADDITION OF ARMOR PROTECTION KITS AND THE RESULTING STRAIN ON OVER-LOADED AXLES, SOME UP-ARMORED HMMWVS WON'T PASS THIS STATIC STEERING CHECK.

IF YOUR HMMWV IS IN THAT CATEGORY, RECHECK THE STEERING WHEEL LIKE THIS ...

- 1. Position the vehicle in an area to allow enough room to operate for a short distance at 5-10 mph in a zig-zag pattern with no obstructions.
- 2. With the vehicle at idle, the transfer in H, and the transmission in drive (D), allow the vehicle to move forward at not less than 5 and not more than 10 mph. As the vehicle moves forward, turn the steering wheel from right to left. The steering wheel should move freely.



 \Box e imagine hippos around water, but there's one case where H_2O needs to be scarce: when the Army's M105 HIPPO, NSN 5430-01-487-7760, has to be shipped by rail. In that case, the water tank must be drained completely. Secure the HIPPO on a container on flatcar (COFC) or DODX flatcar using 20-ft ISO locks.

The HIPPO can't be transported by rail while still on a PLS/LHS truck or trailer. It doesn't have holes in its frame that accept PLS/LHS transport pins, so that configuration can't pass a rail impact test.

Questions about shipping the HIPPO or other equipment? Call the Military Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA) at (800) 722-0727 or e-mail: usarmv.scott.sddc.mbx.tea-dpe@mail.mil

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Tactical Vehicles... LEARNING SOME

Antenna Etiquette







Dear Half-Mast,

A lot of the operators in our motor pool are bolting the antenna tie-downs directly to their vehicles. I've asked around and most say they do it because the tiedown rope broke or they just got fed up with it interfering with the door.

Seems to me that such an extreme angle would put a lot of stress on the antenna mount and the antenna itself. Can you give us the lowdown on the correct way to tie down a vehicular antenna?

SFC R.M.W.



... WHENEVER VEHICLES ARE PARKED OVERNIGHT IN THE MOTOR POOL, ANTENNAS SHOULD BE UPRIGHT.

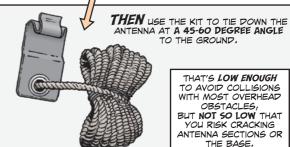
THAT PREVENTS UNNECESSARY STRESS ON THE ANTENNA MOUNT AND KEEPS THE BASE SPRING COILS CLOSE TOGETHER, SEALING OUT DIRT AND MOISTURE.



WHEN SAFETY CALLS FOR YOUR ANTENNA TO BE TIED DOWN, DO IT RIGHT!



GET THE AS-3900 ANTENNA TIE-DOWN KIT WITH FIRST, NSN 4020-01-341-8795. NSN 4020-00-908-6416 BRINGS THE AS-1729 ANTENNA TIE-DOWN KIT.



TO THE GROUND.

THAT'S LOW ENOUGH TO AVOID COLLISIONS WITH MOST OVERHEAD OBSTACLES, BUT NOT SO LOW THAT YOU RISK CRACKING ANTENNA SECTIONS OR THE BASE

THAT'S ALSO WHY YOU SHOULD NEVER MOUNT THE TIE-DOWN CLIP DIRECTLY TO YOUR VEHICLE.



THE ANGLE NOT ONLY OVER-STRESSES THE MOUNT, BUT IT COULD CAUSE THE ANTENNA TO SHATTER AND HURT SOMEONE.

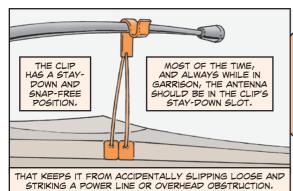
INSTEAD ATTACH THE CLIP TO THE ANTENNA ITSELF ABOUT MIDWAY BETWEEN THE TIP AND BASE



TOO FAR FORWARD AND YOU'LL BOW THE ANTENNA. TOO FAR BACK AND YOU WON'T GET THE RIGHT ANGLE. LENGTHEN OR SHORTEN THE CORD UNTIL THE ANTENNA HITS THAT 45-60 DEGREE ANGLE.



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THE STAY-DOWN
POSITION IS THE MOST
COMMON. HOWEVER,
IT DOES HAVE ITS OWN
SAFETY PROBLEMS.



IF YOU HIT AN OBSTRUCTION WITH THE ANTENNA LOCKED DOWN, THE ANTENNA WILL SHATTER.

SO, IF YOU ARE OPERATING IN THE FIELD AWAY FROM ALL OVER-HEAD OBSTRUCTIONS EXCEPT TREES, YOU CAN PUT THE ANTENNA IN THE SNAP-FREE POSITION.

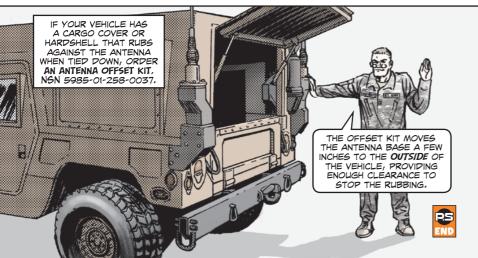
THAT WAY, IF YOU HIT A TREE LIMB, THE ANTENNA WILL **POP LOOSE** INSTEAD OF BREAKING. IF YOUR VEHICLE HAS MORE THAN ONE ANTENNA, ALWAYS TIE THEM DOWN ALONG-SIDE THE VEHICLE.

NEVER CROSS ANTENNAS OR THE TRANSMITTING ONE WILL FEED ITS SIGNAL TO THE ONE IT'S TOUCHING. YOU'LL GET INTERFERENCE AT A MINIMUM AND MAYBE EVEN DAMAGE YOUR RADIO'S CIRCUITS.



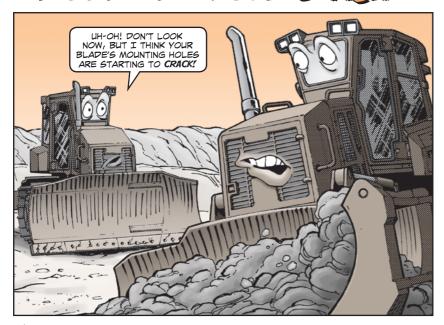
DON'T CROSS THE ANTENNAS AND DON'T CROSS THE STREAMS!

DOING EITHER ONE WOULD BE BAD!





MOUNTING HOLE CRACKS



Some units have reported problems with the attaching hardware for the D6K dozer's blade, specifically the moldboard and cutting edges.

The area in question is around the square holes, where the mounting bolts fit into the blade. Only dozers with serial numbers from HMG0005

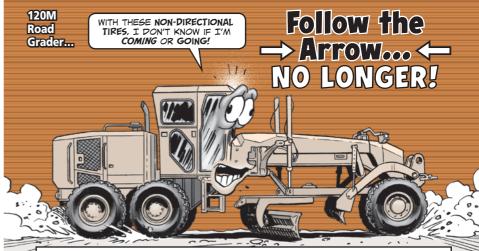
through HMG00069 and HMG00071 are affected.

GET DOWN ON
YOUR HANDS
AND KNEES
AND LOOK FOR
ANY CRACKS AT
THE CORNER OF
THE MOUNTING

IF THE
CRACKS GET
BAD ENOUGH,
THE BLADE'S
HARDWARE
COULD COME
LOOSE OR
FALL OFF!

GET OVEH, APP'S LARE COME OFF! Check all mounting holes for cracks

If you see or suspect problems with the D6K blade's mounting holes and hardware, contact Caterpillar directly for help. The POC is Gregory Costley, (309) 578-3295. Or email him at: costley_gregory_e@cat.com



Dear Half-Mast,

The tires on 130G CAT road graders have always been directional. When pointed in the right direction, the tire's chevron pattern provides great traction in loose sand, dirt, mud and gravel.

When mounting a new tire, you only had to look for the direction arrow on the sidewall. That way you could always be sure the tires were mounted in the right direction.

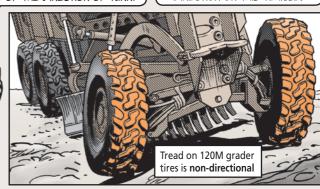
When our unit got the new 120M CAT road graders, I figured the tires would work the same way. But a close look at the grader's sidewall revealed no directional arrow.

Does it matter which way the tire is mounted on the 120M?

SGT M.S.F.

THE 120M ROAD GRADER USES A NON-DIRECTIONAL TIRE WITH A PATTERN THAT'S THE SAME REGARDLESS OF THE DIRECTION OF TURN. IN A NUTSHELL, YOU WON'T HAVE TO THINK TWICE ABOUT TIRE PIRECTION ON THIS VEHICLE!





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Dear Editor,

Recently, two equipment specialists from TACOM LCMC's Combat Engineering (CE) group travelled to Ravenna, OH, to give a maintenance training course on the D7R II dozer.

The course was specifically designed to train the TACOM logistics assistance representatives (LARs) on how to troubleshoot, repair and use maintenance support device (MSD) software to diagnose and isolate equipment system faults. That knowledge allows us better support the Soldiers in our units.

LARs are one of the main contacts between the CE group and the Soldier, so we were able to share our views from the Soldier's perspective. We not only learned more about the dozer's electrical, hydraulic, transmission and engine systems, but the CE specialists learned a lot about the conditions and needs faced by Soldiers every day.

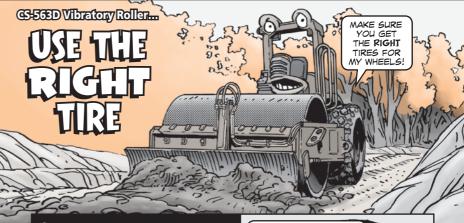
Please remind Soldiers that their TACOM LARs are always working to get the knowledge, understanding and expertise necessary to help with equipment problems. When Soldiers are facing a maintenance issue and aren't sure where to turn, TACOM LARs are always ready and willing to help.

Jimmy Richardson TACOM LAR Ft Bragg, NC THANKS FOR THE GREAT LETTER, JIMMY, THE ASSISTANCE THAT YOU AND ALL LARS PROVIDE TO OUR SOLDIERS IS INVALUABLE!



IF YOU'RE
NOT SURE
HOW TO
FIND
YOUR
NEAREST
TACOM
LAR,
CHECK
OUT
PAGES
14-15 OF
P6 759
FOR
HELP,
GO TO:

https://www.logsa.army.mil/psmag/archives/PS2016/759/759-14-15.pdf



Only the 8-ply tire, NSN 2610-01-188-5171, should be used on the CS-563D vibratory roller. The 12-ply tire and wheel assembly, NSN 2610-01-559-2780, is used only on the up-armored (AOA) CS-563D vibratory roller.

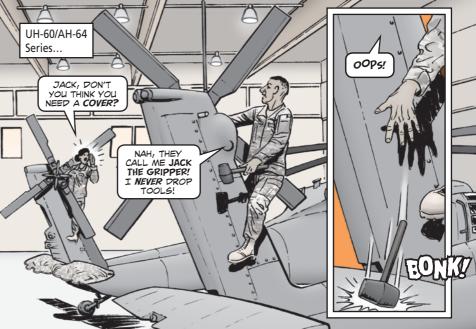
However, some of the NSN 2610-01-559-2780 tire and wheel assemblies have been delivered with an 8-ply tire installed. That's the wrong tire.

If you have received the NSN 2610-01-559-2780 assembly with an 8-ply tire, order the 12-ply tire, NSN 2610-01-559-2780, and have it installed on the wheel assembly by an authorized service center.



PS 761 20 APR 16





PROTECT STABILATORS FROM DANGE



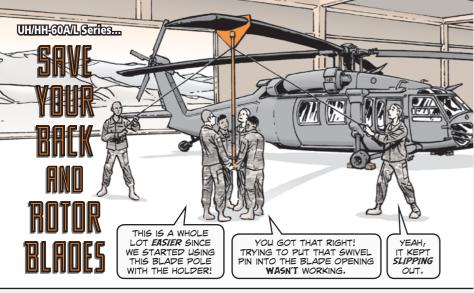
Before you even think about going topside, rustle up and install the stabilator cover. That's job #1 before you start hammering or turning a wrench or screwdriver. The cover prevents damage if a tool slips from your fingers. It may be hard to believe, but even the best mechanics are butterfingers from time to time.

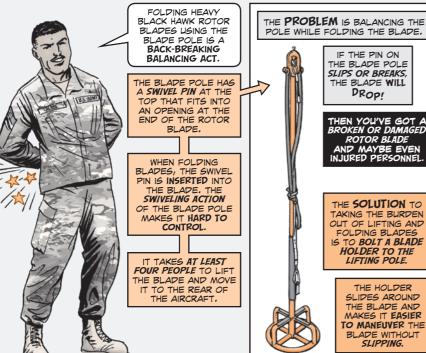
Dropping a tool on an unprotected stabilator causes unnecessary and costly damage. So it's vital that you protect stabilators from tools that can cause punctures or dents. If you don't have a cover, get your upholstery shop to make one.

On Pages 35-37 of PS 697 (Dec 10), you'll find the plans for a homemade cover, plus info on how to order covers from GSA. Go to:

https://www.logsa.army.mil/psmag/archives/PS2010/697/697-35-37.pdf

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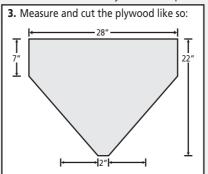


HAVE YOUR SUPPORT SHOP MAKE THE HOLDER USING THESE MATERIALS:

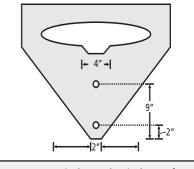
- One 22x28-in piece of ³/₄-in plywood, NSN 5530-00-051-0512
- Two self-locking nuts, NSN 5310-00-126-5754
- Two ¹/₂-in shear bolts, NSN 5306-01-014-1732
- Four washers, NSN 5310-00-149-9130

Follow these steps when cutting the plywood:

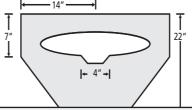
- 1. Remove upper pin from blade pole.
- 2. Remove lock assembly from blade pole.



- Make a rubber protective strip from nitrile rubber, MIL-R-6855. That keeps wood splinters from damaging the blade.
- **6.** Drill two ¹/₂-in holes in the wood. Position the holes 2 inches and 9 inches from the center bottom of the V shape portion of the holder.



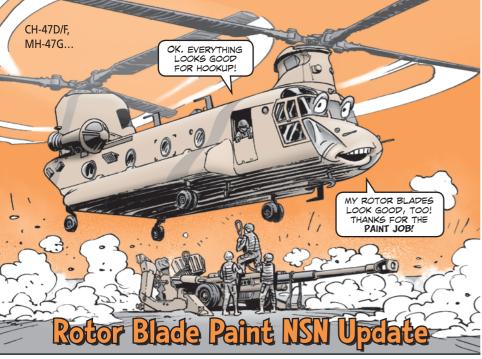
4. Cut a hole in the wood in the shape of the blade.



- Measure 67 inches and 74 inches up from the bottom of the pole's base and drill a 1/2-in hole at each location.
- 8. Break all sharp edges and debur holes.
- Attach the blade holder to the lifting pole with the self-locking nuts, shear bolts and washers.



PS 761 25 APR 16





THE RIGHT PAINT TO USE FOR ALL CHINOOK ROTOR BLADES IS BLACK POLYURETHANE PAINT. NON 8010-01-397-3980. IT'S A TWO-COMPONENT PAINT THAT IS MIXED TOGETHER TO MAKE TWO QUARTS.

THE F-MODEL CHINOOK'S IETM, TM 1-1520-271-23&P (DEC 15) ALREADY LISTS THE -3980 BLACK POLYURETHANE AS THE PAINT TO USE.

THE D-MODEL CHINOOK'S IETM, TM 1-1520-240-23&P, POESN'T, BUT WILL SOON BE UPDATED. UNTIL THEN, ORDER NON 8010-01-397-3980 WHEN YOU NEED TO PAINT ROTOR BLADES.

YOU WON'T FIND THIS IN EITHER IETM, BUT THE BLACK POLYURETHANE PAINT IS ALSO AVAILABLE IN TWO OTHER SIZES.

THE FOLLOWING
NONS ARE
ALTERNATES THAT
FALL UNDER THE
SAME MILITARY
SPECIFICATION:

Size	NSN 8010-
3 pints	01-545-1944
3 quarts	01-545-1947

















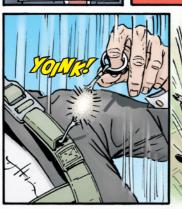
PS 761 26 APR 16

presenting JAMES BONDO in PM Royale





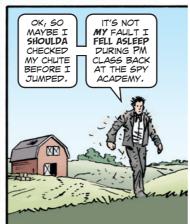


























PS 761 29 APR 16









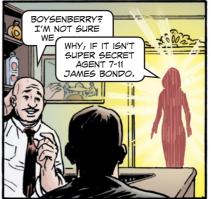












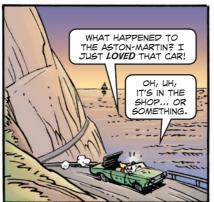
PS 761 31 APR 16



















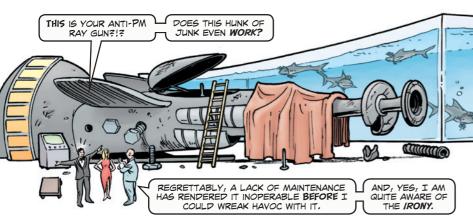




OH, THAT! IT'S DOWN IN THE BASEMENT, ALONG

WITH THE SHARKS WITH

PS 761 32 APR 16

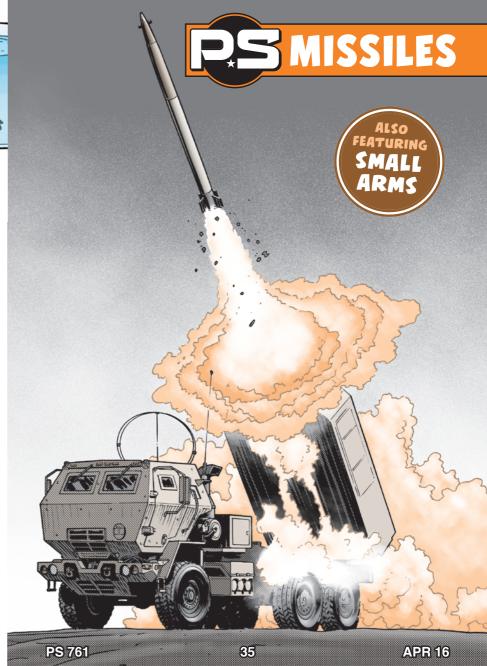




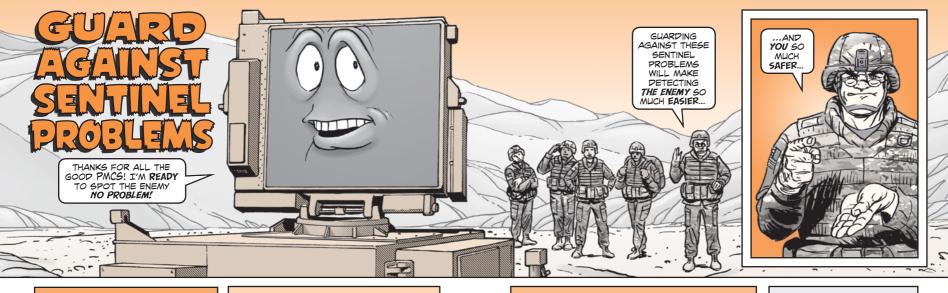








PS 761 34 APR 16



Be careful! The Sentinel produces lots of voltage and rotates very fast. Just a moment of carelessness can spell curtains for a Soldier.

Before you do any maintenance, install a dummy load. That way the Sentinel sends RF into the dummy load and not into space where it could microwave anyone on top of the Sentinel.

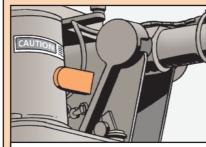
Dummy load keeps you safe when working on Sentinel



Check and re-check that the brake is locked *before* you climb on top of the Sentinel. If the brake isn't set, you could take a sudden trip if the Sentinel is activated and its dish whirls around.

When you climb on top, always use the three points of contact method. That prevents sudden falls.

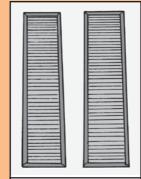
Before rotating the Sentinel, make very sure everyone is out of the way. This is especially important if you're operating remotely.



Make sure brake is set **before** climbing on top of Sentinel

Clean the filters. The Sentinel produces lots of heat. If it's not getting lots of cooling air, it overheats, which causes electrical problems.

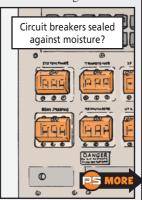
Check filters daily when you're operating. If they're clogged, clean them with soap and water or blow them clean with low-pressure Remember there are five: two up top, two on the side, and one in the power distribution panel. They all need to be cleaned.



Check filters daily and clean if necessary. In desert, order an extra set

If you must constantly run the Sentinel in the desert, get an extra set of filters. That way you don't have to wait for the filters to dry before re-installing them.

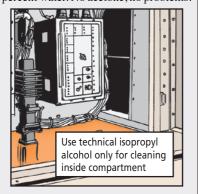
Make sure the circuit breakers on the control panel are sealed. Sometimes that's forgotten when the Sentinel is in for maintenance. Without the seals, water gets in the circuit breakers and causes electrical damage.



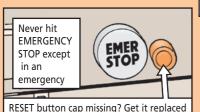
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Keep the compartment doors closed as much as possible. Sand cause abrasions and other problems for electrical components. Wipe the compartment clean daily when operating.

Don't use rubbing alcohol to clean inside the compartment. That strips the protective coating off the compartment walls, which can lead to corrosion and arcing. TM 9-1430-Sentinel (Oct 14) says to use technical isopropyl alcohol, NSN 6810-00-753-4993, for cleaning because it's 70 percent isopropyl and 30 percent water. No acetone, no problems.



Don't hit Emergency Stop except in an emergency. Some units shut down their Sentinels that way. That bypasses the shutdown procedure and leads to electronic damage. Plus that can damage the button itself.



Wear **ESD** (electrostatic discharge) protection to handle circuit cards. Some of the Sentinel circuit cards cost thousands. One tiny spark can ruin one of those cards and your good name.

Before handling any circuit card, put on an ESD wrist strap and plug it in. Make sure the Sentinel itself is grounded or the ESD strap won't do any good. Never put circuit cards down on a metal surface. Lay them down on an ESD mat or place them in an antistatic pouch.

NSN 4940-01-253-5368 brings an ESD kit with two wrist straps, a grounding cord, mat, three antistatic pouches and three barrier bags.

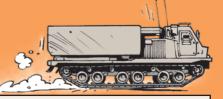


Wear ESD strap when handling circuit cards

If the cap for the EMERGENCY STOP RESET button disappears, get it replaced ASAP. Without the cap, the button's housing traps dirt and sand and eventually stops working. Order a new cap through your contract support with PN 40215A746.

MLRS...

GPS Antenna NSN No Longer Good



Dear Editor,

Please let Soldiers know NSN 1055-01-457-8342 for the M270A1 MLRS GPS antenna is no longer good. It's Item 45 in Fig 90 of TM 9-1055-647-13&P.

Now units must order the antenna with PN H00000872 through the Performance Based Logistics (PBL) item contractor, Lockheed Martin, as part of the fire control system.

> Jorge Castro AMCOM LAR Ft Sill, OK

Editor's note:

You got it, Jorge!

M16-Series Rifle, M4/M4A1 Carbine... PAGE 40 IN PS 758 (JAN 16) TOLD YOU ABOUT THE NEW M16/M4 MIMI Published AMBIDEXTROUS SELECTOR SWITCH, NSN 1005-01-585-6042, THAT IS REPLACING THE OLD ONE-SIDED SELECTOR SWITCH, on New NSN 1005-01-225-8339. Salegion TACOM HAS PUBLISHED MAIN-TENANCE INFORMATION MESSAGE (MIM) 16-002 THAT TELLS YOU HOW TO INSTALL THE NEW SWITCH, PLUS HOW TO ALTER THE OLDER M12 RACKS SO THAT MAS AND MIGS WITH THE NEW SWITCH WILL FIT SECURELY. TO FIND MIM 16-002, GO TO:

https://tulsa.tacom.armu.mil/Maintenance/message.cfm?id=MI16-002.html

THE REPAIR PARTS FOR THE SELECTOR SWITCH ARE THE RIGHT LEVER, NSN 5930-01-585-4340, AND CAP SCREW, NSN 5305-01-586-6997

PAGE 40 IN PS 746 (JAN 15) AND PAGE 40 IN PS 753 (AUG 15) GAVE TWO METHODS FOR ALTERING THE M12 RACK.

JUST REMEMBER THAT ANY M12 RACKS MADE AFTER SEPTEMBER 2013 WON'T NEED TO BE ALTERED. SO TEST YOUR RACKS FOR THE PROPER FIT BEFORE DOING ANYTHING ELSE.

RACKS THAT HAVE BEEN ALTERED NEED TO BE CERTIFIED BY A LOCAL TACOM LAR.

PS 761 38 PS 761 **APR 16**

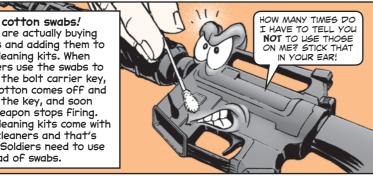


Advice from Ft Leonard Wood

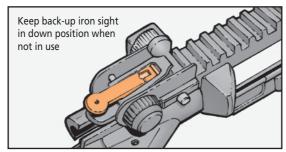
Dear Editor.

We repair the small arms at the Ft Leonard Logistics Readiness Center (LRC). We think these suggestions on the M16 rifle and M4/M4A1 carbine will help operators, armorers and 91F repairmen get the most out of their weapons:

No cotton swabs! Units are actually buying swabs and adding them to the cleaning kits. When Soldiers use the swabs to clean the bolt carrier key. the cotton comes off and plugs the key, and soon the weapon stops firing. The cleaning kits come with pipe cleaners and that's what Soldiers need to use instead of swabs.

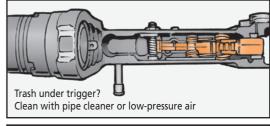


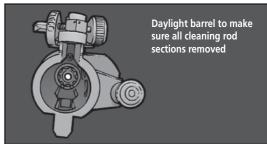
Protect the back-up iron sight. We've had to replace as many as 100 in one week. Keep the iron sight in the down position whenever you're not using it. Don't stack weapons on top of each other. And, obviously, don't drop weapons.



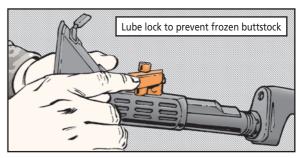
Check under trigger for trash. When Soldiers do training where they crawl on the ground, dirt and pebbles often get stuck under the trigger. Even a tiny pebble can iam the weapon. You can aet most trash out with a pipe cleaner or low pressure air.

Make sure all of the cleaning rod is out of the barrel. We've had several weapons explode because a cleaning rod section was accidentally left in the barrel. If you "daylight" the barrel (look through the chamber to see if you can see out the muzzle), you can be sure the barrel's clear.





Lube adjustable buttstock lock. If the lock goes too long without lube, it freezes and then you can't adjust the buttstock. When you do PMCS, put a Few drops of CLP on the lock and work the buttstock back and forth.

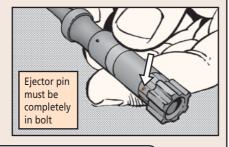


Thoroughly clean the weapon before inspecting it or sending if to higher maintenance. Carbon hides cracks and makes gaging inaccurate. Besides, support will send a dirty weapon right back to you for cleaning.



PS 761 **APR 16** Armorers and 91Fs, install the ejector pin completely in the bolt. If the pin's not flush, count on it breaking off.

Victor Jackson Mark Haggith LRC Ft Leonard Wood, MO



Editor's note: We love to hear the voices of experience. Thanks.



MK 19 Machine Gun...

WHY DOESN'T THE ARMY DO IT, TOO?



Dear Half-Mast,
The MK 19's semiannual
maintenance in TM 9-1010-23023&P says under several of
the checks "Not for Army Use."
Marines, on the other hand, are
required to check important
components like the bolt and the
sear assembly. This doesn't make
sense. Why the difference?

Mr D.L.

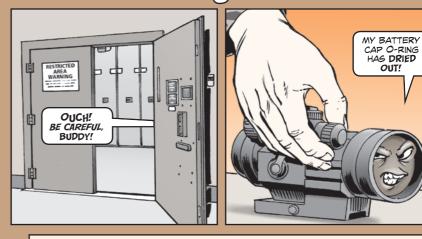
Dear Sir,

You're right that it doesn't make sense. And that's why the Army will require in the next revision to the TM that all semiannual checks be made by both the Marines and Army. But don't wait. Anywhere the TM says "Not for Army Use," cross that out.

-/V/ast

ights...

Oh, O-ring Lube Is Good!



Dear Half-Mast,

Here at Ft Leonard Wood's optics shop, we've been getting numerous service calls about the M68 COMP M4 sight. Our investigation found that Soldiers couldn't remove and install the M68's battery cap because the cap's O-ring had completely dried out and seized the cap.

In some cases, the battery cylinder broke off from the M68 when they tried to remove the cap. That made the sight unrepairable.

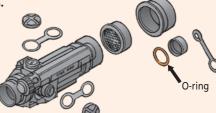
We found the solution on Pages 54-55 of PS 734 (Jan 14), which recommended silicone compound, NSN 6850-00-177-5094, for cable O-rings.

We apply a thin coat of the compound to the O-ring with a cottontipped applicator whenever we do maintenance on the M68. If the armorer will do this at least quarterly, seized battery caps will cease.

The compound is good for any sights that have battery caps with O-rings.

Lube battery cap O-ring with silicone compound at least quarterly

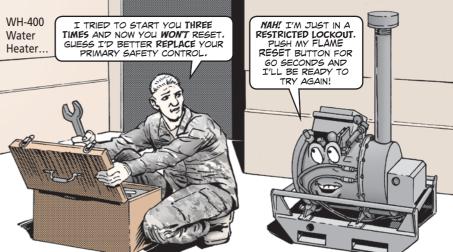
Johnny Vaughn
Gayla Campbell
Jimmy Childers
Dal Campbell
Toby Frazier
Joe Cruz
TACOM FMX-Optics Shop
Ft Leonard Wood, MO



Editor's note: Armorers need to seize this tip to prevent seized battery caps. Thanks, all!

PS 761 42 APR 16 **PS 761 43 APR 16**





KNOCK OUT LOCKOUT WITH A LITTLE KNOWLEDGE

he WH-400 water heater works on a simple principle, operators. You turn it on, the fuel valve opens and sprays fuel through the fuel nozzle, and the electrodes energize to create a spark that lights the fuel.

At each startup, the primary safety control performs a "trial for ignition" (TFI). If the flame doesn't start within several seconds, a buzzer sounds and the water heater is locked out. This is called a **safety lockout.**

No problem. Just press the red FLAME RESET button for one second and you're ready to try again.

But if it's a new WH-400, or you're trying to start one that's had its fuel drained for transport or storage, it may take several tries to get the heater started. And if the primary safety control does three safety lockouts in a row, the control enters a **restricted lockout**.

In restricted lockout, pressing the FLAME RESET for one second again does nothing. That leads some operators to assume they have a bad primary safety control, NSN 4540-01-575-2421, so they order a new one.

Here's a little known fact: To release the water heater from a **restricted lockout**, press and hold the FLAME RESET button for 60 seconds. You won't find this mentioned in the hard copy of TM 10-4520-266-13&P that comes packed with the WH-400, so make a note until the TM is updated.



PS 761 45 APR 16

Non-Lethal Capability Set... THINGS TO REMEMBER



Dear Editor,

The non-lethal capability set (NLCS) is designed for crowd control. It consists of the dismounted operations module, NSN 1367-01-561-5279; the detainee/crowd control operations module, NSN 1367-01-561-5276; the convoy module, NSN 1367-01-561-5277; and the checkpoint module, NSN 1367-01-561-5278. As an instructor for the set, I've picked up these PM nuggets that can help other units:

Establish accountability

The set costs \$1.3 million, so you don't want its components disappearing. Limit the number of people who have access to the set and make sure each item is properly signed out.



Run set's two generators at least monthly

If the generators sit for long periods, their seals and fuel go bad. The generators come with a TM that will guide you in PMCS. It's a good idea to store the generators in the motor pool where it's easier to service them.



Store tasers and their cartridges in arms room

Temperature extremes affect both the tasers and cartridges. If they're left for long periods in the cape set containers, they can end up warped or frozen.



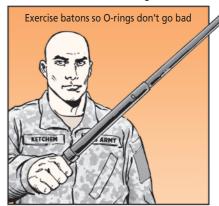
Make PMCS for set part of every Monday maintenance day

The set is made up of 10 Conexes full of equipment. That's too much equipment for just one day a month's worth of attention. PMCS part of the set each Monday. That makes it manageable.



Exercise batons and traffic spikes

Batons also have O-rings. If they sit unused for months, the O-rings dry up and the batons can't be adjusted.



Lay out the vehicle arresting devices (traffic spikes) monthly. If they're stored for months without being unrolled, they can end up sticking together.

Train with training devices

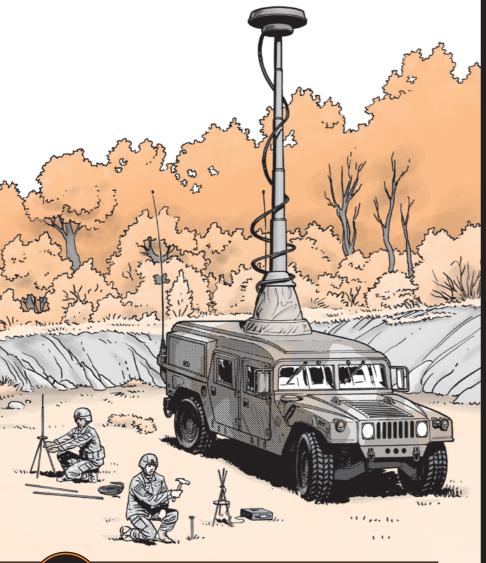
That's why they're called training devices. If you train with the real items, such as the spike strips, eventually



For help with the non-lethal capability set, go to the manufacturer's website: https://www.aardvarktactical.com or call (800) 997-3773.

SFC Steven Ketchem Interservice Non-lethal Individual Weapons Ft Leonard Wood, MO

Editor's note: Great tips, Sergeant. Thanks for the help.

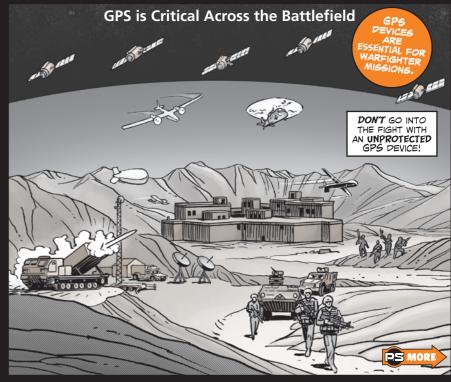


PS COMMUNICATIONS

PS 761 43 APR 16

Keying is the **Key** to **GPS** Protection!





Keying is the Key

For maximum performance for military operations, you need to ensure that every selective availability anti-spoofing module (SAASM)-equipped GPS device is always COMSEC keyed.

This includes the well-known DAGR, as well as the embedded receivers "hidden" inside many other weapon systems.

Emerging threats make the electromagnetic environ-ment more challenging than ever for low-power radio signals like GPS. Loading all SAASM receivers with COMSEC key materials is your best defense against signal interference. When keyed, your GPS receiver provides the highest possible level of anti-spoofing protection, including positioning, navigation and timing (PNT) accuracy. When your GPS receiver is keyed, it tracks the military GPS signal, Precise Positioning Services (PPS).

An unkeyed SAASM-based GPS receivers are no better than standard commercial GPS receivers. When your GPS receiver is unkeyed, it is only tracking the commercial GPS signal, Standard Positioning Service (SPS). And that presents an increased risk to military operations.

All units with SAASM-based GPS devices *must* have current COMSEC keys loaded before their receivers are used in combat, combat support or combat service support operations. That means you must perform pre-combat checks (PCCs) and pre-combat inspections (PCIs) to ensure that your equipment is keyed. There are two types of SAASM-based GPS: embedded and stand-alone.

for maximum performance

Keep DAGR keyed

Embedded SAASM Devices

Some line replaceable units (LRUs) with embedded GPS cards aren't routinely opened at the unit level. These systems are required to provide access points for key-fill.

Check your equipment carefully. If it has a key-fill device, review the TMs to determine if the GPS key-fill is required. If so, follow the TM instructions to maintain the key.

Stand-alone GPS Receiver

The primary stand-alone device is the AN/PSN-13A defense advanced GPS receiver (DAGR), NSN 5825-01-526-4783. Units must maintain keys in all DAGRs regardless of how they're used.



Note About DAGR GPS Keys

Maintaining the DAGR COMSEC key can be a burden for operators. To relieve that hardship, the GPS system offers over-the-air key distribution (OTAD). That reduces the need for physical keying to just once a year. The OTAD software was released under MWO 11-5820-1172-23-1. You can get a copy of the MWO and the software at the PNT website:

https://www.pmpnt.army.mil

For help with keying your DAGRs, contact PM PNT's Stephen Morrissey at (478) 926-9511 or by email: stephen.r.morrissey.civ@mail.mil

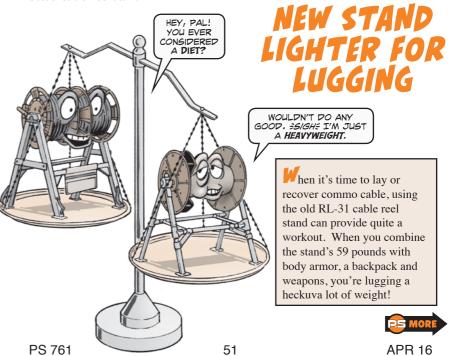
If you need help with keying other stand-alone or embedded GPS systems, contact the project/program/product manager or the sustainment agency responsible for the end item.

To use OTAD, your DAGR must have MWO 11-5820-1172-50-1 applied. The MWO covers turning in the obsolete AN/PSN-13 DAGRs that cannot use latest operating software (OS) or the OTAD signal. It also details upgrading the affected AN/PSN-13A DAGRs. The details of that MWO are addressed in CECOM Maintenance Advisory Message 2014-07-0002 (6 May 14), which can be found on the PNT website.

More information about how to confirm OTAD is working on your device is in the latest change to the DAGR's TM 11-5820-1172-13&P (May 14/Ch 1, Aug 15). You'll find it on the LOGSA ETM website: https://www.logsa.army.mil/etms

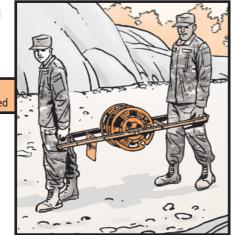
PS END

RL-309/U Cable Reel Stand...



That's where the Army's new RL-309/U advanced lightweight reel stand comes to the rescue. The RL-309/U weighs in at 22 pounds, 63 percent lighter than the old RL-31. Its other benefits include:

- Faster, easier and safer to deploy and retrieve cable over rough terrain
- Strong lightweight aluminum frame with stainless steel hardware for durability
- Folds flat and locks closed for easy transport with all pieces self-contained
- Easy setup and operation with no tools required
- Replaceable axle bushings that snap in and out
- Deploys and retrieves cable from either direction
- An attached heavy-duty storage pouch for transporting brakes and crank handles





THE RL-309/U

	ltem	NSN					
ı	Leg assembly, tan (2 per stand)	5975-01-630-1923					
	Leg assembly, green (2 per stand)	5975-01-630-1747					
9	Axle holder with bushing (2 per stand)	5365-01-630-1817					
	Axle holder bushing (2 per stand)	5365-01-630-1816					
1	Brake assembly	5340-01-630-1932					
	Hand crank assembly	5340-01-630-1896					
	Split/dual axle	3040-01-630-1797					
,	Quick-release pin	5315-01-630-1915					
1	Hinge	5340-01-630-1938					
	Side brace (tan)	5975-01-630-1715					
	Side brace (green)	5975-01-630-1581					
,	Fabric carrying handle	5340-01-630-1707					
	Fabric pouch	5140-01-633-8564					

For more information, check out the manufacturer's website at:

http://www.occfiber.com/products/ALRS

Questions? Contact Melissa Fox or Kate McDevitt at the CECOM Engineering Office, DSN 648-6164, (443) 395-6164, or by email at:

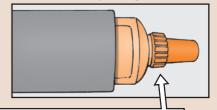
melissa.a.fox25.civ@mail.mil kate.h.mcdevitt.civ@mail.mil



The OE-254 antenna mast group, NSN 5985-01-063-1574, includes a 2-ounce tube of silicone compound, PN SM-B-944742 (MIL-S-8660), that's stored in a special protective compartment of the transit bag. Unfortunately, the silicone has no NSN and is not available through the supply system.

The expendable supplies and materials list in Appendix B of TM 11-5985-357-13 lists an 8-oz tube of silicone compound, NSN 6850-00-880-7616, as a replacement. Unfortunately, this tube is too large to fit inside the transit bag's compartment.

A better substitute is NSN 6850-00-177-5094. While this 2-oz tube of MIL-S-8660 silicone compound is still too large to fit into the transit bag's compartment, it's small enough to fit into one of the lower mast section tubes for protection and convenient storage.



Slide 2-oz tube of silicone compound into lower mast section tube for protection

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PWKP Refills Knowledge Tank





Due to repeated deployments over the past decade, some Soldiers have lost critical technical skills, especially in the petroleum and water arenas.

To boost learning and refresh maintenance skills, the Quartermaster School's Petroleum and Water Department has opened a Petroleum and Water Knowledge Portal (PWKP) online. The virtual portal can help bridge technical knowledge gaps and aid home-station sustainment training.

	Petroleum and Water		KNOWLEDGE PORTAL						
P&W Components FARP Guide	Purpose This Knowledge Center is a virtual, online environment to		SKN-Live Calendar						
	provide training and tools to energize a culture of	4 April 2016 ▶						•	
Petroleum Equipment Go/No Go	stewardship throughout our formations. It provides the means for knowledge sharing, collaboration and interaction as it relates to Petroleum and Water.	s	м	т	w	т	F	s	
Petroleum Inspection Checklist							1	2	
Petroleum Operations & Joint								~	
Publication Guide	Hot Topics	3	4	5	6	7	8	9	
Petroleum Laboratory Certification	ATP 4-43 Petroleum Operations replaced FM 10-67-	10	11	12	13	14	15	16	
Checklist & Publication	effective 06 August 2015 DLA-Energy published a change to FY2015 Fuel Prices Effective Feb 2015(under "Customers/Partners" dropdown menu "Customers/Partners" dropdown menu	17	18	19	20	21	22	23	
ROM Guide		24	25	20	27	20	29	20	
Water Equipment Go/No Go		24	25	20	2.1	20	25	30	
Water Inspection Checklist	Army Petroleum Center (APC) site has Fuel Technical Letters (FTL's) and Technical Advisory Messages				1				

The PWKP is brimming with resources, including:

- inspection checklists, publications and SOPs for petroleum and water equipment.
- a list of Army-approved petroleum and water courses.
- videos demonstrating petroleum and water operations.
- interactive media instruction tools.
- links to more communities that support the Army's petroleum and water mission.

The center is also part of the Sustainment Knowledge Network (SKN) and SKN forums, so it's easier than ever to connect with subject matter experts.

Access the PWKP by CAC at: https://www.us.army.mil/suite/page/697424

To submit questions or comments to the petroleum and water experts, click the red Ask the Expert button.

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THE DEFENSE AMMUNITION CENTER (DAC) HAS FIELDED SEVERAL MOBILE LEARNING APPLICATIONS FOR THOSE WHO WORK WITH AMMUNITION AND EXPLOSIVES.

THE FOUR APPS COVER CRITICAL SAFETY, STORAGE AND HANDLING PRACTICES. THEY INCLUDE ...





AMMO SCG

YOU'LL LEARN ABOUT THE 13 DIFFERENT STORAGE COMPATIBILITY GROUPS (SCG) ASSIGNED TO AMMUNITION ITEMS AND HOW TO INTERPRET THE COMPATIBILITY TABLE AS YOU MOVE AMMO TO DIFFERENT STORAGE SITES.

> YOU'LL ALSO SEE WHAT CAN HAPPEN IF COMPATIBILITY RULES ARE VIOLATED.



ESQD MOBILE



THIS APP TEACHES YOU HOW TO USE THE EXPLOSIVES SAFETY QUANTITY DISTANCE (ESQD) CALCULATOR, A TOOL THAT DETERMINES HOW MUCH AMMUNITION CAN BE SAFELY STORED AT A GIVEN LOCATION AND HOW FAR AWAY TO KEEP PERSONNEL AND EQUIPMENT.

IT'S GOT 10 SCENARIOS THAT USE THE MOBILE ESQD CALCULATOR AND TEST YOUR KNOWLEDGE OF ARMY ESQD STANDARDS.



YELLOW BOOK

THIS APP IS A MOBILE VERSION OF THE POPULAR FIELD GUIDE, IT COVERS CONSOLIDATED HAZARD CLASSIFICATION, PHYSICAL SECURITY, MARKING, TRANSPORTATION AND STORAGE DATA AND OTHER CRITERIA FOR A VARIETY OF AMMUNITION ITEMS.

LIKE THE HARD COPY VERSION, THE APP DOESN'T REPLACE ANY OFFICIAL SOURCE POCUMENTS, BUT IT'S A HANDY TOOL FOR FIELD OPERATIONS.



SOLDIER SAFETY

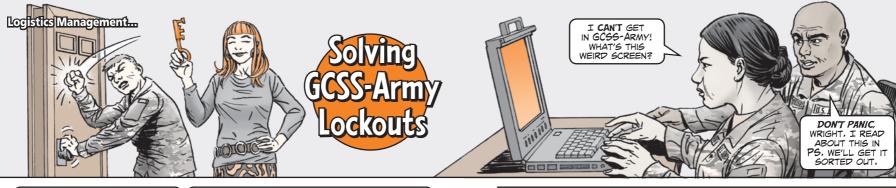
THIS APP WATCH AND INTERACT COVERS THE WITH "PRIVATE BASIC DO'S AND PUDDINHEAD" WHILE HE DON'TS WHEN LEARNS ABOUT BASIC HANDLING, AMMO SAFETY THROUGH TRIAL AND ERROR IN A STORING OR TRANSPORTING VARIETY OF HUMOROUS AMMO. SITUATIONS.



TO CHECK OUT ONE OR MORE OF THESE FREE APPS, VISIT THE DAC WEBSITE AT: http://www.dactces.org/



PS 761



EVER ACCIDENTALLY LOCK
YOURSELF OUT OF GCSS-ARMY?

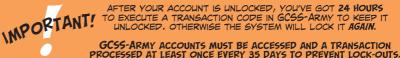
YOU KNOW THERE'S A **PROBLEM** IF YOU GET AN ODD-LOOKING SCREEN WHEN YOU TRY TO LOG IN.



AS GCSS-ARMY WAVE 2 ROLLS OUT ACROSS THE ARMY, MANY USERS NEED HELP UNLOCKING THEIR ACCOUNTS OR WANT TO KNOW WHAT'S UP WITH THAT SAP NETWEAVER ERROR SCREEN. SO IF YOU SUBMIT A HELP DESK TICKET, YOU MAY END UP ON A LONG WAITING LIST.

HERE ARE THREE POSSIBLE CAUSES AND RESOLUTIONS FOR THE SAP NETWEAVER SCREEN...

- 1. Your account hasn't been fully established. If you have self-registered but an access administrator (AA) has not yet successfully transferred you to a role or position, you'll be unable to log in. Once the AA has granted you access, it can take up to 20 minutes before you can log in.
- The certificates on your CAC weren't published. This is rare, but it can happen if you recently got a new CAC. Choosing an old CAC certificate when logging in can also cause an error.
- 3. Your account really is locked.
 - Active Army: Contact your local GCSS-Army AA or SASMO for assistance.
 - Reserve: Contact your local GCSS-Army AA.
 - National Guard: Contact your state/territory GCSS-Army POC in the G-4 section of the Joint Force Headquarters.



Access Administrators

GCSS-ARMY AAS WHO NEED REFRESHER TRAINING ON HOW TO UNLOCK ACCOUNTS CAN GET IT THROUGH THE GCSS-ARMY TRAINING AND CERTIFICATION (GTRAC).

GO TO: http://gcss.army.mil/

PICK THE TRAINING TAB ON THE GCSS-ARMY WEBSITE, CLICK FAMILIARIZATION-WEB BASED TRAINING, AND COMPLETE THE ADMINISTRATIVE FUNCTIONS TRAINING PARTS 1 AND 2. THE DECENTRALIZED USER ADMINISTRATION (DUA) SECTION OF THE END USER MANUAL PLUS (EUM+) ALSO HAS A TRANSACTION GUIDE THAT COVERS THE ACCOUNT UNLOCKING PROCESS.

OF SAFETY AND SOLVENTS



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THE CLEANING PROCESS ITSELF CAN MULTIPLY HAZARDS.

FOR EXAMPLE, PARTS WASHING STATIONS ARE USED TO REMOVE RESIDUE THAT CONTAINS DEGREASERS SUCH AS CARBURETOR AND ENGINE CLEANER SOLVENTS.

THESET MATERIALS INCLUDE HAZMAT LIKE PETROLEUM DISTILLATES, ARCMATIC HYDROCARBON, BENZENE AND PETROLEUM NAPHTHA. THE WASTE THEY GENERATE CREATES MORE ACIDS, IGNITABLE CHEMICALS AND OTHER TOXIC WASTES.

ONE STEP TOWARD LIMITING WASTE AND IMPROVING SOLDIER SAFETY IS LOOKING AT ALTERNATIVES TO STANDARD PRACTICES.

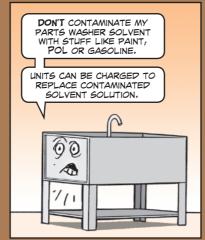
INSTEAD OF SOLVENT-BASED WASH STATIONS, UNITS CAN GET STATIONS THAT ARE AQUEOUS CLEANER-BASED.
AQUEOUS CLEANERS ARE PH-NEUTRAL OR ALKALINE WATER-BASED SOLUTIONS THAT CLEAN AS WELL AS SOLVENTS.

ANOTHER OPTION IS **SEMI-AQUEOUS SOLUTIONS**THAT CONTAIN LESS SOLVENT.

EVEN A FEW CHANGES CAN REDUCE THE AMOUNT OR NUMBER OF SOLVENTS.



- 1. Always wipe parts down. Remove as much excess residue as possible before placing parts in a solvent tank.
- Create stages to clean heavily soiled parts. Use one solvent tank for the initial cleaning and a second solvent tank for the final cleaning.
- 3. Regularly clean out sludge from aqueous cleaning tanks.
- 4. Coordinate with your contract support organization to ensure your unit is using the longest service interval possible for your solvent exchange service.
- 5. Ensure no other solvents are used over parts washers (spray solvents are a common culprit). Mixing spray solvents, such as carburetor cleaner, means the solvent in the parts washer can't be recycled.



FOR MORE MAINTENANCE TIPS AND TOOLS, GRAB YOUR CAC AND CHECK OUT THE COMMAND MAINTENANCE DISCIPLINE PROGRAM (CMDP) KNOWLEDGE CENTER ONLINE AT:

https://www.us.armu.mil/suite/page/693941



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BLACK SOCKS GET GREEN LIGHT

Good news, Soldiers! You can now wear black socks with Army fitness uniforms. So the choice of black or white socks is yours, but all socks must be plain with no logos and cover the calf or entire ankle. Look for this change in the next revision of DA Pam 670-1, Guide to the Wear and Appearance of Army Uniforms and Insignia.

GK VRRT Forklift Steering Cylinder *Revisited*

Page 13 of PS 757 (Dec 15) listed NSN 3040-01-294-3441 for the forklift's left-front and right-rear steering cylinder. That's wrong. The correct NSN is 3040-01-294-3411.

HMMWV Geared Hub Plug Revisited

Page 13 of PS 756 (Nov 15) said to use a ³/₈-in hex head driver to remove the HMMWV's geared hub drain plug. That's incorrect. You'll actually need to use a ⁵/₁₆-in or an 8mm Allen key driver to fit the plug's slot.

MSD HELP DESK DELIVERS

Need help with your maintenance support device (MSD), internal combustion engine (ICE)/smart wireless internal combustion engine (SWICE) kits, or ULLS-A(E) logbook? No problem: Product Director Test, Measurement and Diagnostic Equipment (PD TMDE) fixes snafus! For warranty repair, hardware or software issues, password reset or field s upport, s et u p a u ser account and submit a customer service request (CSR) at: https://msd.us.army.mil/ Or call (877) 564-1137, (256) 876-2200, or email: apats@redstone.army.mil

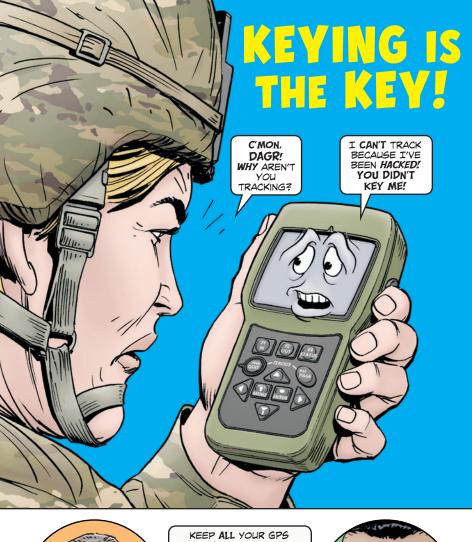
TS-3920C Test Set Calibration Revisited

Page 60 of PS 752 (Sep 14) and Pages 24-25 of PS 757 (Dec 15) said to ship the TS-3920C/ASM computer test set (CTS), NSN 6625-01-529-3346, to the manufacturer for calibration. In both instances, that's not the case. Test sets are calibrated by Army TMDE, not the manufacturer. Refer to Pages 20-21 of PS 754 (Sep 15) for test set calibration:

https://www.logsa.army.mil/psmag/archives/PS2015/754/754-20-21.pdf

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

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





KEEP ALL YOUR GPS
DEVICES, INCLUDING YOUR
DAGR, KEYED SO THEY
CAN TRACK MILITARY
SIGNALS.

OTHERWISE, YOUR
DEVICES ARE NO BETTER
THAN A STANDARD
GPS RECEIVER THAT'S
VULNERABLE TO THREATS.

