

We hear it everywhere we go. "I love PS, but we hardly ever see it!"

We talk to operators and mechanics on a daily basis. They tell us how they use and maintain their equipment. Sometimes they describe problems already addressed in PS. They say they didn't see the information because the magazine isn't getting to their unit.

Odds are PS is close by. Close to 100,000 copies are mailed out every month. But the information isn't doing much good if it's not getting to the soldiers who need it.

So look around after you've finished this issue of PS. Is everyone in your unit who needs PS getting it? PS is free, so order as many copies as you need. Then make sure those copies get out of the office and down to the motorpool, where it's needed.

M1000 HFT Semitrailer



TACOM Maintenance Advisory Message (MAM) 01-018 requires you to increase the tire pressure in your M1000 tank hauler's 42 tires to 95 psi.

The extra 10 pounds of pressure provides increased load-carrying capacity for the tires without affecting their suspension characteristics. The higher pressure also reduces sidewall damage and means longer tire life.

The MAM lays out information for a tire inspection before you increase the pressure and on safety procedures when you do.

It also requires that the stencil above each bogey be changed to reflect 95 psi as the right air pressure.

Stencil letters should be about 1 inch high. but no less than ½ inch high. Use lusterless Green 383 paint on a black background or

lusterless black on Green 383, depending on the camouflage pattern and location. Appendix B of TB 43-0209 has the details.

Additionally, you're required to make notes in TM 9-2330-381-14 that the pressure requirement is increased to 95 psi. Mark the following pages with the word "WARNING" and a reference to MAM 01-018:

Pages 1-15, 2-37, 2-219, 3-31, 4-53 and 4-243.

Stencil tire pressure above each bogey

OTHER THINGS TO REMEMBER WHEN DEALING WITH M1000 TIRES INCLUDE...





'ONLY MICHELIN 215/75R17.5 RADIAL TIRES ARE AUTHORIZED FOR USE ON THE M1000."

"USE THE TIRE INFLATION GAUGE. NSN 4910-00-441-8685, THAT HAS A 10-FT HOSE AND STAND OUT OF THE SIDEWALL TRAJECTORY AREA WHEN INFLATING TIRES MOUNTED ON THE TRAILER."



"USE A TIRE CAGE WHEN INFLATING ANY TIRE THAT'S NOT MOUNTED ON A VEHICLE."

"DO NOT INFLATE ANY TIRE THAT IS DAMAGED OR SHOWS SIGNS OF POSSIBLE FAILURE (CUTS, CRACKS, FOREIGN OBJECTS. BLISTERS, BULGES, RIPPLES, EXPOSED CORDS OR PROTRUDING FILAMENTS, EXCESSIVE TREAD WEAR OR SOFT SPOTS IN THE SIDEWALL)."





MAKE SURE YOU READ AND UNDERSTAND MAM 01-018. YOU CAN FIND IT AT THE ARMY ELECTRONICS PRODUCT SUPPORT SITE: https://aeps.ria.army.mil/Commodity/ safety/SafetyList.cfm.

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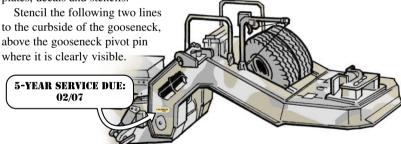
IF YOU DON'T HAVE A PASSWORD, YOU CAN APPLY FOR ONE.

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To make sure you don't miss that next tough 5-year service, you must now add a stencil to your M1000 HET trailers.

The requirement is being added to TM 9-2330-381-14 in Para 4-75 for data plates, decals and stencils.

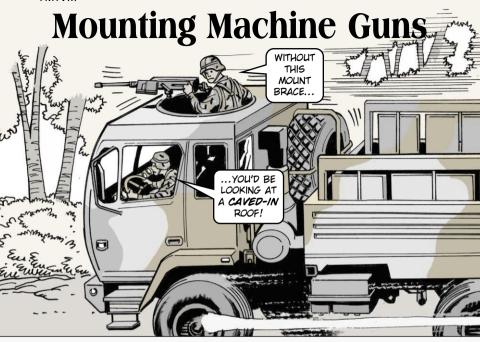


If you have already done a 5-year service, add 5 years to the year part of the stencil to reflect the date of the next service.

If your trailer is not 5 years old, use the date of its delivery plus 5 years for the service date.

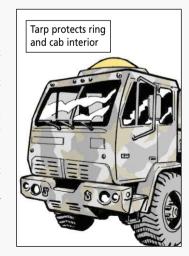
The letters should be about 1 inch high, but no less than $\frac{1}{2}$ inch high. Use luster-less Green 383 paint on a black background or lusterless black on Green 383, depending on the camouflage pattern and location. Painting info is found in TB 43-0209.

New production trailers will come with the stencil already applied.



When FMTVs start showing up in your unit for the first time, here's what you should know about mounting machine guns on the cab.

- The FMTV machine gun mount kit, NSN 1005-01-381-5431, consists of a wind-shield/cab brace, a specially designed middle cab seat and a platform assembly. It does not contain a machine gun ring or mount.
- The M66 machine gun ring and mount should be removed from the truck you turn in when you get a new FMTV. The ring and mount are TO&E items, not part of the truck or the mount installation kit.
- The M66 machine gun ring is NSN 1005-00-701-2810. The .50-cal machine gun mount is NSN 1005-00-704-6650.
- Use tarp, NSN 1005-00-707-0725, to cover the machine gun ring and mount when the gun is not mounted. It'll keep parts clean and dry, including the cab, if there's a leaky roof seal.



PM SHOULD BE AUTOMATIC

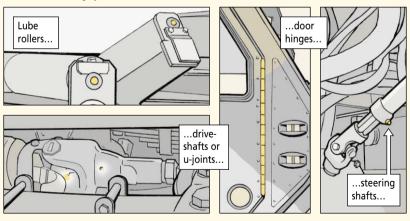
"Y'KNOW, IT WOULD BE GREAT IF PREVENTIVE MAINTENANCE COULD BE DONE WITH THE FLICK OF A SWITCH..."

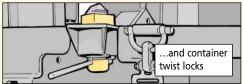
"...LIKE OPERATING THE PLS LOAD HANDLING SYSTEM."





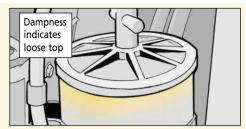
• Keep a grease gun or oil can handy for lubing. Rollers, driveshafts, door hinges, steering gearshafts and container twist locks must have lube or your truck, trailer or flatrack will pay.



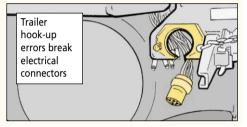


Follow the requirements of TM 9-2320-364-20-1 for the truck, TM 9-2330-385-14 for the trailer and TM 9-3990-206-14&P for the flatrack.

• Keep an eye on the top of the truck's fuel-water separator filter housing. Seepage means the lid is not on tight enough. If the lid lets fuel out, it will also let air into the fuel system, causing rough running or no starts at all.



• Be extra careful lining up your truck and the trailer drawbar when hooking up to the PLS trailer. Use a ground guide if one's available, to prevent damage to the truck frame or axle, or a broken coupler and electrical connector.

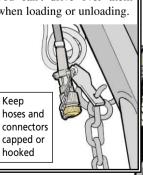


• Make sure all trailer electrical cables and air hoses are disconnected before driving off after a mission. Otherwise, you'll break air and electrical connections and deadline your truck.



By the same token, make sure all these connections are re-connected before you take off on a mission.

Keep all hoses and connectors capped or hooked to their dummy couplings when not in use. That way you can't drive over them when loading or unloading.



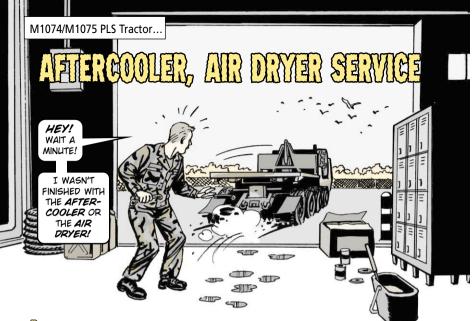


SO MAKE

PM A HABIT,

SOLDIERS!

PS 591



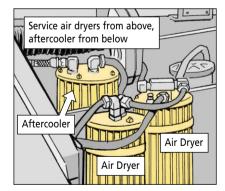
rotecting the M1074 and M1075 PLS tractor's air system from moisture is your job, mechanics. An aftercooler and two air dryers will keep the air dry, if you keep them serviced.

Aftercooler

The PLS aftercooler cools compressed air so there's less moisture going to the air dryers. To do this, the foil filter in the tractor's aftercooler must be replaced every 2,000 hours or annually, whichever comes first.

The old recommendation—to clean and inspect the foil filter for reuse no longer applies.

The easiest access to the aftercooler filter is through the bottom lid. That way, you won't have to disconnect the steering driveshaft.



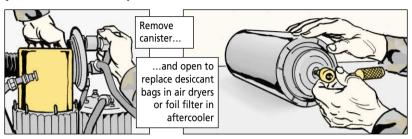
Do not avoid servicing the aftercooler because it looks like a hard job. If the filter is not replaced on schedule, moisture gets into the system, corroding or blocking air operation, leading to mechanical component failures. The aftercooler filter kit is NSN 5330-01-377-2460.

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Air Drvers

The air dryers remove dirt and moisture from the air going to the reservoir. To do this, the desiccant bags in the air dryers must also be replaced every 2,000 hours or annually, whichever comes first.

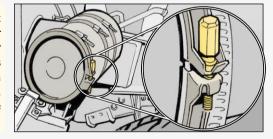
Failure to replace the desiccant bags will also cause corrosion, leading to component failure. The air dryer filter kit is NSN 4440-01-337-7324.



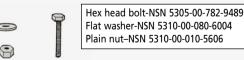
HMMWV...

You Might Save a Clamp

If you break the bolt that tightens the air cleaner housing clamp on your HMMWV, but there's nothing else wrong with the clamp loop assembly, there's a way to save some money.



Don't replace the entire assembly. Instead, replace only the bolt with these cheap items:



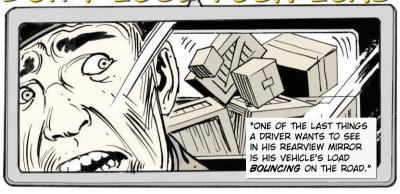
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THE ONLY DRAWBACK WITH THIS FIX IS THAT YOU'LL HAVE TO USE A 3/8-IN SOCKET WRENCH TO LOOSEN OR TIGHTEN THE NUT.







PON'T LET IT HAPPEN TO YOU!
A CARGO NET WILL TAME YOUR YEHICLE'S LOAD AND KEEP IT FROM HITTING THE ROAD.



A THREE-POSITION MOLDED NYLON CLAMP LOCKS A CINCHING ROPE, WHICH GOES AROUND THE ENTIRE NET.

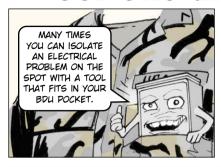
EACH NET COMES WITH A STORAGE BAG AND ATTACHMENT INSTRUCTIONS. 3/4-ton and 1 ton trailers use net, NSN 3940-01-449-2369

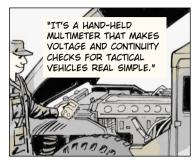
2 1/2-ton and 5-ton trucks need NSN 3940-01-449-2385.

For the HMMWV and HEMTT, use NSN 2540-01-483-5853.

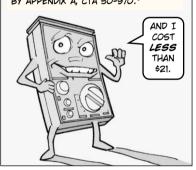
FEB 02

Get One and Use It!





"MULTIMETER, NSN 6625-00-914-4113, IS AN EXPENDABLE ITEM AUTHORIZED BY APPENDIX A, CTA 50-970."

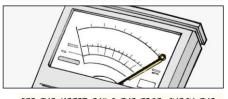




"THEN HAVE IT RE-CALIBRATED EVERY 2 YEARS AS CALLED FOR BY TB 43-180, CALIBRATION AND REPAIR REQUIREMENTS FOR THE MAINTENANCE OF ARMY MATERIEL."



"BETWEEN CALIBRATIONS, CHECK THE MULTI-METER'S FUNCTION BY TURNING THE METER TO THE HIGHEST OHMS RANGE TO MAKE SURE THE METER ZEROES WHEN NO LOAD IS APPLIED."



"IF THE METER FAILS THE TEST, CHECK THE BATTERIES AND TEST LEADS. IF THEY CHECK OUT, THE METER MUST BE REPLACED, SO TURN IT IN ACCORDING TO YOUR UNIT SOP."

PS 591



When it comes to combat and tactical vehicles, a shine is **not** so fine!

Some soldiers (and their commanders) think their vehicles should shine like their POV. So they use baby oil, brake fluid, diesel fuel or their own concoction to put a shine on their tank or truck.

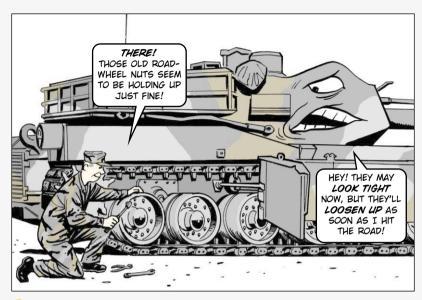
But vehicles that shine on the parade field stand out on the battlefield, too. They're easy to spot and destroy.

A lot of effort and expense have gone into developing coatings and camouflage patterns to make your vehicle harder to spot. So don't blow it by adding "improvements" or "protection" to the paint.

Military vehicles aren't supposed to shine like your POV!



DON'T CHOOSE TO REUSE

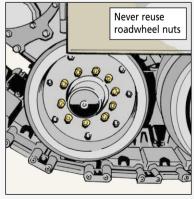


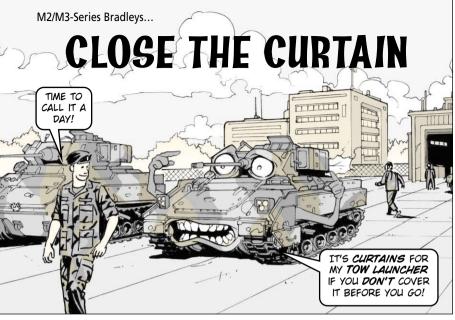
Sure it's easier to reuse the self-locking nuts when replacing a tank roadwheel, mechanics. It saves you a few steps to and from the supply room to get new ones. But think of the even longer walk facing the tank crew when that new roadwheel pops loose out in the boonies.

The roadwheel nuts, NSN 5310-01-064-3910, aren't meant to be used more than once. Once they're removed, the threads are stretched and will no longer hold securely.

At best, you end up with a wobbly wheel. At worst, the wheel falls off during operation. That can cause a thrown track.

It's OK to reuse any of the undamaged flat washers, NSN 5310-01-382-9996, that go between the roadwheel and self-locking nuts. But never use the nuts themselves more than once.



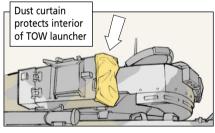


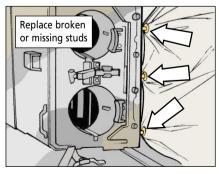
A missing or open dust curtain, NSN 1005-01-126-7797, on your Bradley's TOW launcher is a real show-stopper, crewmen.

Without the curtain's protection, dirt and moisture get inside the launcher. Then launcher connectors corrode and your missiles won't fire. So keep the curtain closed whenever the launcher isn't being used.

Of course, you can't close the curtain if the snap fastener studs that connect the curtain to the launcher have snapped off. Get new studs with NSN 5315-00-174-2882.

While you're waiting for the replacement studs to arrive, hold the curtain in place with hook and pile tape. NSN 8315-01-470-8453 gets a 25-yd roll of 1-in wide black tape.



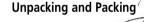


De Determined with PADS Care



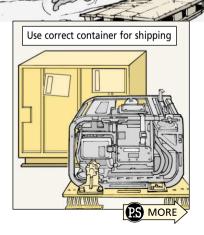
The position and azimuth determining system (PADS) won't be determining many firing positions for your howitzer, MLRS, or Patriot if you're not determined

in your PM.



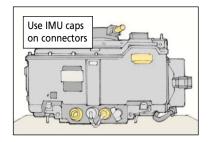
PADS has components that require delicate handling. So carefully follow the unpacking and packing instructions in Section 1 of Chapter 2 in TM 5-6675-308-12.

When sending the PADS or inertial measurement unit (IMU) for repair, use the correct shipping container. Order the PADS container with NSN 8145-01-407-8256 and the IMU container with NSN 6675-01-474-9021. Do not use the Army-fabricated metal containers that have hard-rubber bumpers. They don't provide enough protection.

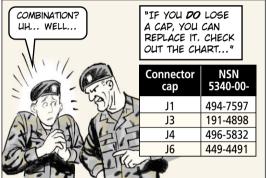


Center the PADS or IMU container on a 40 x 48-in pallet and secure it with four 11/4-in wide straps, with two straps horizontal and two vertical.

When the IMU is not installed in the PADS, keep the four black protective caps on its connectors. The caps protect the connectors from electrostatic discharge and dirt.





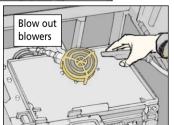




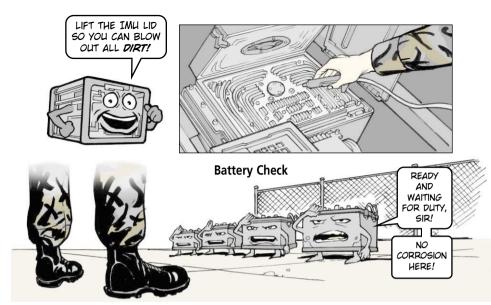
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If your PADS doesn't get plenty of cool air, it overheats and shuts down. That's why it's important not to stack stuff on top of or around the PADS. That blocks vents and the PADS thermostat.

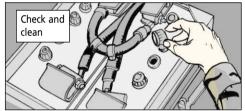
Make sure the IMU vents and blowers and the power supply blowers aren't clogged with dirt. Use an air hose to clean out the vents.



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The backup PADS batteries are often forgotten until they're needed. As part of your beforeoperation PMCS, check the electrolyte level in battery cells and clean any corrosion off battery posts and connectors.



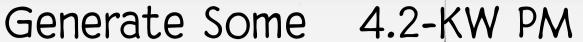


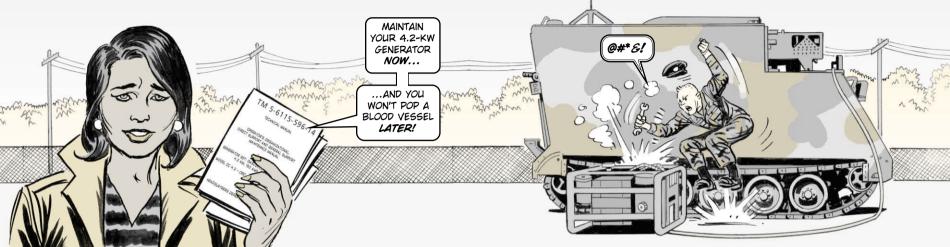


As much as possible, keep the IMU installed in the PADS and the PADS turned on during travel. That keeps the gyro spinning and protects it from being damaged by bumps and jolts.

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Crewmen, you need the 4.2-KW generator to power the computer system, radios, lights, and fax machines on board your M577-series command post carrier. But the generator's output will be kaput if you don't pull generator PM.

You won't find anything in the PMCS tables in the carrier's -10 TMs, so make sure you have a copy of TM 5-6115-596-14 for the generator and TM 9-2805-262-14 and LO 9-2805-262-12 for the generator's 6-HP engine.





Starting Safety

If you have to use the starting rope to turn over the engine, be careful with the knotted end. The knot can fly off the starter pulley and smack you—or a buddy—in the eye.

To avoid a knot in the eye, wear some eye protection, such as goggles, NSN 4240-00-052-3776, whenever you manually start the generator. Protect others by keeping them clear of the area while you're starting the generator.

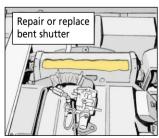


Keep the Air Flowing

When it's stowed, the generator is easy to step on if you move around on top of the vehicle. Make sure you keep your feet off the shutter assembly.

The shutter automatically opens when the engine needs a shot of cool air to keep running. A bent or jammed shutter assembly won't cool things down and the generator overheats.

So check the shutter often. It should move easily and then spring back to its original position.





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Air Filter Facts

Don't change the generator's air filter more often than necessary. Sometimes the red shows only because the indicator's been bumped, not because the filter is clogged.

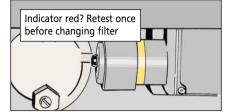
With the engine running, push the release button. If the indicator turns red again, then the filter's clogged and needs to be changed.

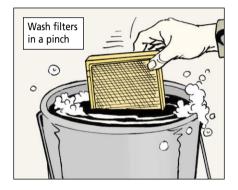
If the indicator stays clear after you push the button, the filter's still good. Keep on generating.

In a pinch, your mechanic can clean the filter by blowing a low pressure (30 psi) jet of air from the clean side and out the dirty side.

If replacement filters, NSN 2940-00-876-2212, are in short supply, wash dirty ones in mild soap and water to extend their life. Rinse well and dry the filters thoroughly before you put them back in service.

Never, ever, run an engine without a filter. Dust or dirt in your engine is more trouble than a dirty filter.





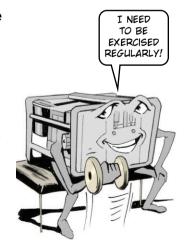
Exercise

Your generator needs regular exercise. That doesn't mean just before each trip to the field, either.

Exercise is best when it's regular and often—like about 15 minutes or more every week. Without it, seals and filters dry out. Gaskets crack. Batteries get weak or die.

Before exercising the generator, remove it from the carrier and hook it up like it says in the -10 TMs. Then...

- 1. Start the carrier's engine, then the generator.
- 2. Switch off the carrier's engine.
- **3.** Turn on the carrier's lights. That gives the generator a load so it runs a little hotter and prevents carbon deposits in the carburetor.



FEB₀₂

Don't Be Fuelish

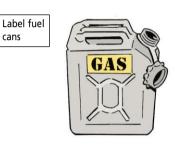
- Clean the fuel sediment bowl before each use of the generator. Otherwise, the carburetor plugs up and the generator won't start.
- Never grab the first can of fuel you find and fill the fuel tank. The 4.2-KW generator uses **gasoline only.**

Diesel fuel stops it cold. Spark plugs won't ignite the fuel. The fuel tank and lines have to be drained and cleaned.

If your commander OKs it, label all fuel cans DIESEL or GASOLINE in flat black lacquer. Get a quart of lacquer with NSN 8010-00-166-3147.

- When you pour fuel from cans, make sure the gas tank's screen is in place and clean. Its job is to screen out dirt and gunk that foul fuel and clog filters.
- Store fuel cans at least 50 feet away from the generator and always have a fire extinguisher handy when fueling.

Empty fuel sediment bowl before operation



Never add fuel to a hot engine. A fire can shut down your generator—and you—for good.

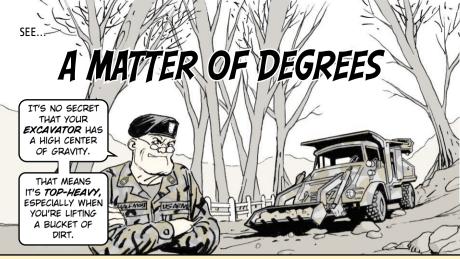
More to Do

- Make sure all hardware is tight before operating your generator. When traveling cross-country, the generator vibrates enough that nuts and bolts can shake loose.
- Cover things like cables and the fuel sediment bowl before spot painting. Paint will crack rubber hoses and keep you from seeing when the sediment bowl needs cleaning.
- Line up connections when you hook up the NATO slave cable to the generator. If the cable is connected at an angle, it could cause arcing and damage the connector.



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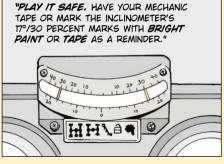


"BALANCED LOW AND SLOW IS THE WAY TO GO WHEN TRAVELING OVER ROUIGH OR HILLY GROUND."

"KEEP THAT BALANCE IN MIND BY KEEPING AN EYE ON THE INCLINOMETER."



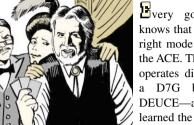




know Act Operator Basics

YUH DON'T WANNA GAMBLE WITH SAFETY WHEN IT COMES TO OPERATING THE ACE!

IF YOU'RE GONNA PLAY THE GAME. YOU GOTTA LEARN TO PLAY IT RIGHT!



very good operator knows that careful is the right mode for operating the ACE. The earthmover operates differently than bulldozer or DEUCE—as some have learned the hard way!





Fold BLADE'S blade UP OUT for OF THE travel WAY!

· Always fold the blade when you travel crosscountry, no matter what the soil conditions. That way, the blade can't dig into a ridge, tree stump or other obstruction.





NO HITCH-Don't haul HIIKERS. troops BUR!

 For safety's sake. never haul troops in the bowl. The bowl is for dirt, sand or cargo, not people. Same goes for hauling people in the rear of the vehiclenever do it!

...KNOW WHEN TO ROCK AWAY ... -: AHEM:-KNOW WHEN NOT TO MOVE ROCKS AWAY...





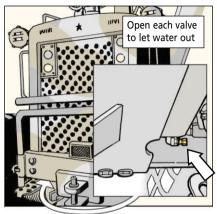
· Remember what the ACE is designed to do and how to make it do the job. Use the blade for moving, loading and unloading dirt. Never use the ACE to excavate solid rock. You'll wreck the blade's scarifier teeth for sure, and probably the blade itself not to mention the vehicle's hydraulic system.

DRAIN THE AIR TANK

Big swings in day and night temperatures increase condensation in your road grader's air brake system. 'Course, that leads to corrosion and that plugs up brake valves and cylinders and causes brake failure.

So always drain the water from the air tank at the end of the day. The tank is located behind and under the grader's rear bumper hitch. Just open the tank's two valves to drain the water. Be sure to close each drain cock when you're finished.

Because of its location, the air tank is often overlooked. As a reminder, have your mechanic use black CARC paint to stencil "Drain Air Daily" on the grader's rear bumper near the hitch. The stencils are part of the No. 1 Common shop set.





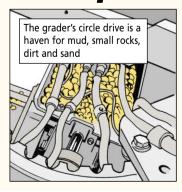
Circle Drive Scoop

Operators, be sure to clean out the main frame above your grader's circle drive after every operation.

The main frame is a haven for mud, small rocks, dirt and sand.

All that crud breaks down hydraulic hoses inside the main frame. And when hydraulic hoses start to rot, they leak. Without hydraulic oil, the circle drive won't rotate and the centershift can't position the grader's blade.

So use a high-pressure hose to clean out the crud after operation.



KEEP THE BED DRY



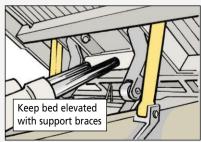
Water in the bed of your 5-ton dump truck usually means the drain holes are stopped up. If the water stays there long enough, you'll end up with a rusted-out dump bed.

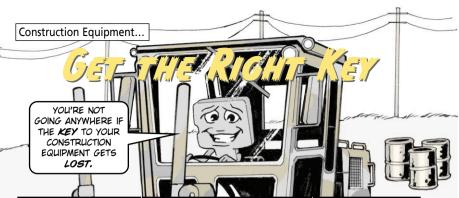
So eyeball the drain holes in the front corners of the bed for dirt and leaves. Look for holes that were painted over, too. Remove any debris or paint residue by running the tip of a ballpoint pen or small screwdriver through the holes to open 'em up.

Another way to get water and snow out of the dump bed—especially when your truck sits for long periods of time—is to keep the bed elevated. Use the dump body support braces (bedlocks) to hold the bed up and keep pressure off the dump body's main hydraulic cylinder.

Page 2-19 of TM 9-2320-272-10 tells how to use the dump body's bedlocks.







Equipment	Item	NSN
M915-series trucks	Ignition switch	2920-01-092-9134
	Lock cylinder w/key	2540-01-155-3601
	Key blanks	5340-00-357-9269
C530A roller	Ignition switch with key	2920-01-043-9994
SP 848 roller	Ignition key (only)	5930-01-039-2939
	Switch with key	2920-01-318-7906
RS-28 Tampo roller	Ignition lock switch with key	2920-01-185-3686
SEE	Ignition switch key	5930-12-166-1092
	Door key	5340-01-240-1777
	Battery key	5930-12-121-7198
	Hood wrench	5120-01-235-2605
621B scraper	Disconnect switch key	5930-00-715-1939
130G grader(keyless)	Battery disconnect switch	2920-00-775-7691
130G grader(keyless)	Battery disconnect switch key	5930-01-715-1939
D7G tractors	Ignition switch key	5340-01-257-6042
	Battery disconnect switch key	5930-00-715-1939
D8 tractor	Battery disconnect switch key	5930-00-715-1939
MW24C scoop loader	Key blank	5340-01-275-7751
815F compactor	Ignition lock switch without key	2920-01-258-3471
	Key only	5340-01-257-6042
HYEX	Door/fuel/ignition key	5315-01-475-0393



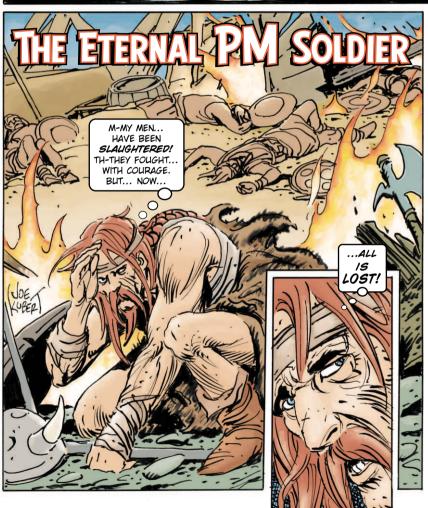
DON'T LET THAT
VEHICLE JUST SIT
IN THE MOTOR
POOL FOREVER.
ORDER NEW KEYS
OR KEY BLANKS...

PS 591

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FEB 02















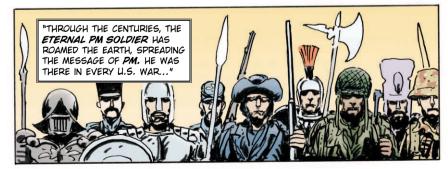












PS 591 29 FEB 02



ON THE NIGHT OF AUG. 5, 1777, GENERAL JOHN STARK WAS PREPARING TO FACE BRITISH TROOPS LED BY BRITISH GENERAL JOHN BURGOYNE...





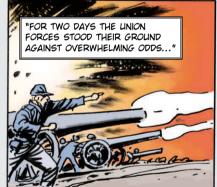






PS 591 30 FEB 02





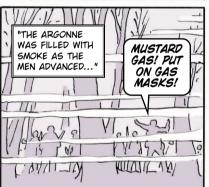














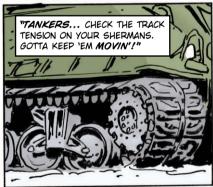














PS 591 32 FEB 02



A MAJOR VICTORY TOOK PLACE IN 1967 IN VIET NAM ... THANKS TO OUR MIISS AND GOOD PM.

THE ETERNAL PM SOLDIER HAD TAUGHT HIS LESSONS WELL!













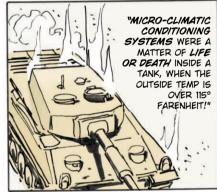
IN 1991, THE US ARMY SPEARHEADED THE OFFENSIVE FOR DESERT SHIELD-DESERT STORM.

IN ADDITION TO THE ENEMY, OUR SOLDIERS HAD TO CONTEND WITH SEARING HEAT AND ABRASIVE SAND.



"THE SAND GOT INTO EVERYTHING. HELICOPTER ROTORS, AIR FILTERS, AND FUEL."

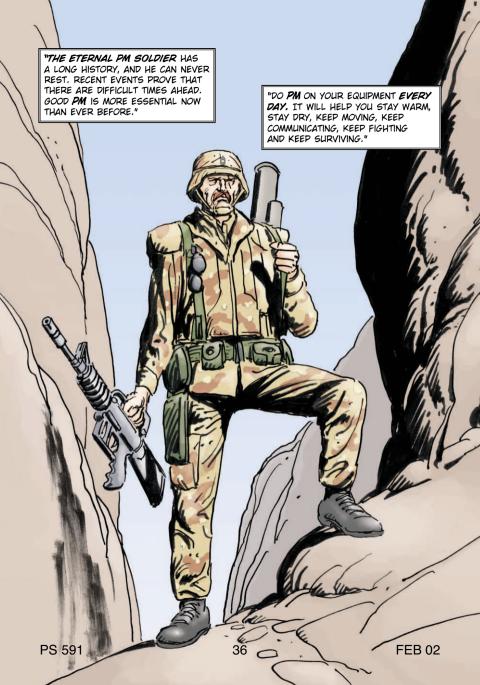




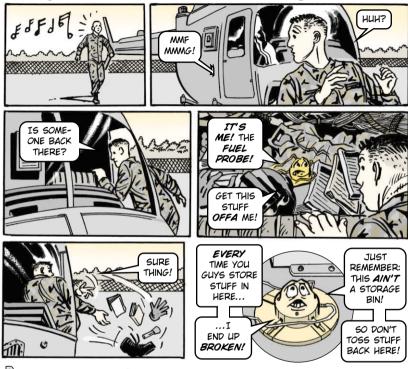




PS 591 34



Any Old Place for Storage? **Wo!**

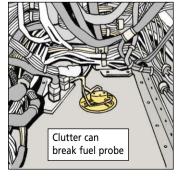


Pilots and crew chiefs, your avionics compartment isn't a storage area for survival kits, TMs, vests and other equipment. It's for avionics **only.**

Tossed vests, kits and TMs can break the delicate fuel probe wiring in the avionics compartment and give you a zero reading on the fuel indicator. That deadlines your aircraft.

Careless tossing can also damage COM-SEC components, SINGARS radios, UHF and VHF antenna communication boxes and their cables.

So never use your avionics compartment as a storage bin. When your maintenance task is done, return TMs to your pubs clerk and turn in ALSE equipment to the ALSE shop.





Anytime you wash your Kiowa Warrior with the forward cowling removed, remember to cover the top IFF antenna receptacle. If you forget, water gets in and can short out the antenna when you reinstall it.

That means you'll get a NO-GO reading on the MFD (multi-functional display) when you do your pre-flight checks. A NO-GO means your aircraft isn't ready to identify itself to other aircraft and ground facilities.

'Course, a NO-GO could also flash if you're too rough removing the cowling while the cable is still attached. Any pulling or tugging can damage the IFF cable. So check the cable and the connector pin for damage if you get a NO-GO.

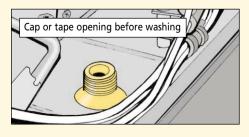
Pulling or tugging while cable is conected can damage top IFF cable

If you get the NO-GO readout only after you've washed the bird, put a small amount of isopropyl alcohol, NSN 6810-00-286-5435, in the antenna receptacle. That will dry up the excess water. Or use a blast of shop air to blow out the water.

Once it's dried out, do another operational check on the top IFF antenna to make sure it's working. If it still won't work, troubleshoot the IFF antenna system.

Keep that NO-GO at bay by taping the receptacle or putting a plastic cap, NSN 5340-00-211-8188, on it before you wash the bird.





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WHAT'S UP WITH ABDU CLEANING?



HAVE YOUR AVIATION BDUS BEEN WEARING OUT FAST?



HAND WASH OR MACHINE
WASH 'EM IN WARM WATER
ON PERMANENT PRESS OR
DELICATE CYCLES, JUST
LIKE THE LABEL SAYS.

YOWZA!
THAT'S NOT

THAT'S NOT

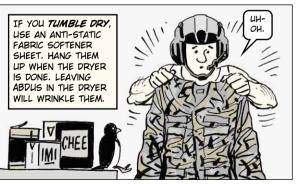
• USE ONLY MILD DETERGENT IN THE AMOUNT FOR THE SIZE OF LOAD YOU HAVE. TOO MUCH DETERGENT MEANS YOU'LL NEED MORE THAN ONE RINSE TO REMOVE IT ALL. DETERGENT BUILDUP CAN REDUCE THE ABDU'S FLAMERETARDANT PROTECTION.



• BECAUSE NOMEX MATERIAL DOES NOT ABSORB MUCH WATER, ABDUS DO NOT NEED HIGH DRYING TEMPERATURES. EITHER DRY ORY AT LOW HEAT AND HANG THE LINIFORM ON A RUSTPROOF HANGAR TO AVOID RUST STAINS.

WARM, THAT'S

HOT!



• PON'T STARCH OR USE SIZING SPRAY ON THE ABDUS. THAT REDUCES THE ANTI-STATIC AND FLAME-RETARDANT PROTECTION. DON'T USE BLEACH, EITHER. IT CAUSES FADING.



CLOSE HOOK-AND-PILE FASTEN-ERS TO REPLICE THE COLLECTION OF LINT, THREAD AND FUZZ IN THE HOOK PORTION OF THE TAPE.

THE MORE BUILDUP YOU HAVE, THE LESS HOLDING POWER THE FASTENER HAS. "IF YOU HAVE SEAMS COMING APART, HOOK-AND-PILE FASTENERS SEPARATING FROM THE FABRIC, OR TORN POCKETS ON THE ABDUS, RETURN THEM TO THE ISSUING FACILITY FOR REPAIRS."

I THOUGHT IT WAS ABOUT TIME TO GET THESE REPAIRED.





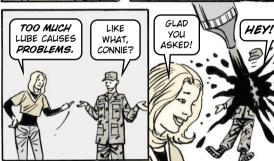
PS 591 40 FEB 02 PS 591 41

It Takes a Light Touch











"THEY STOP MOVING PARTS IN THEIR TRACKS.



YOUR RIFLE OR

"GOOD LUBING BEGINS WITH KNOW-ING THE DIFFERENCE BETWEEN LIGHT LUBING AND GENEROUS LUBE."



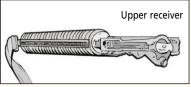


YOU GO GET CLEANED UP AND WE'LL LOOK AT WHICH PARTS GET A LIGHT LUBE AND WHICH GET A GENEROUS ONE.



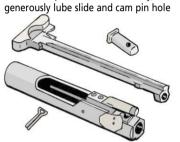
Light Lube

- Inside upper receiver, bore, and chamber
- Outside of barrel, the front sight and under handquard



- Charging handle
- Inside and outside of bolt carrier

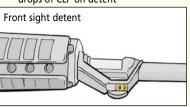
Put one drop of lube in carrier key, but



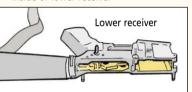
Buffer and action spring



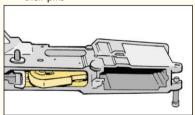
· Front sight detent—depress and put two drops of CLP on detent



Inside of lower receiver



 Moving parts inside lower receiver and their pins



Generous Lube

- Outside of bolt body, the cam pin area, and the bolt rings (but just a light coat on the extractor and cam pin)
- · Takedown and pivot pins and detents



In the Desert

43

"BUT IN THE DESERT, DON'T LUBE LIKE THIS. SAND, NOT CORROSION, IS THE PROBLEM THERE, SAND MIXES WITH LUBE AND BECOMES A SCOURING POWDER THAT EATS UP YOUR RIFLE."

"SO, BEFORE YOU GO TO THE FIELD, WIPE ALL LUBE OFF THE OUTSIDE OF YOUR RIFLE OR CARBINE. LUBE INTERNAL PARTS NORMALLY, BUT CLEAN THEM AFTER FIRING TO GET RID OF SAND."

MAKE COPIES OF THIS ARTICLE AND GIVE IT TO YOUR TROOPS.

ARMORERS,



PS 591

WE WILL
RETURN
TO PS
MAGAZINE
AFTER THESE
WORDS FROM
OUR
SPONSOR...



GUNNERS! IF YOU FORGET YOUR M240 MACHINE GUN'S GAS SYSTEM...





IF GAS CAN'T GO
WHERE IT'S SUPPOSED
TO GO IN THE M240'S
GAS SYSTEM....

...THEN ROUNDS DON'T CHAMBER AND YOU DON'T FIRE! WHAT YOUR GUN NEEDS IS

PM-Bismol!

"CARBON CAUSES GAS PROBLEMS BY STOPPING UP THE GAS REGULATOR AND PLUG."

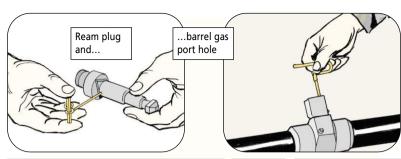
> "THE LONGER CARBON SITS, THE HARDER IT IS TO REMOVE."





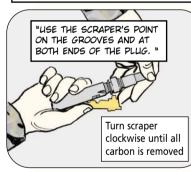
"SO CLEAN
OUT CARBON
ASAP WITH YOUR
COMBINATION
CLEANING TOOL...

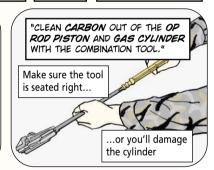
...ESPECIALLY
AFTER FIRING
BLANKS, WHICH
PRODUCE MORE
CARBON THAN
LIVE ROUNDS."



"ON THE RANGE, REAM THE PLUG HOLES AND THE BARREL'S GAS PORT HOLE WHENEVER THERE'S A BREAK IN FIRING. USE THE SMALL REAMER OF YOUR CLEANING TOOL ON THE THREE HOLES IN THE PLUG. BUT DON'T FORCE IT. IT DOESN'T TAKE MUCH TO SNAP THE REAMER. WORK THE REAMER IN AND OUT OF THE PLUG HOLES. THEN TWIST THE REAMER BACK AND FORTH UNTIL THE CARBON'S GONE."

"USE THE LARGE REAMER TO CLEAR THE BARREL'S GAS PORT HOLE." "WHEN FIRING'S OVER, GIVE THE GAS SYSTEM A TOTAL CLEANING. TWIST THE SCRAPER IN THE PLUG UNTIL ALL CARBON'S GONE. MAKE SURE THE GAS PLUG IS SET TO 1."





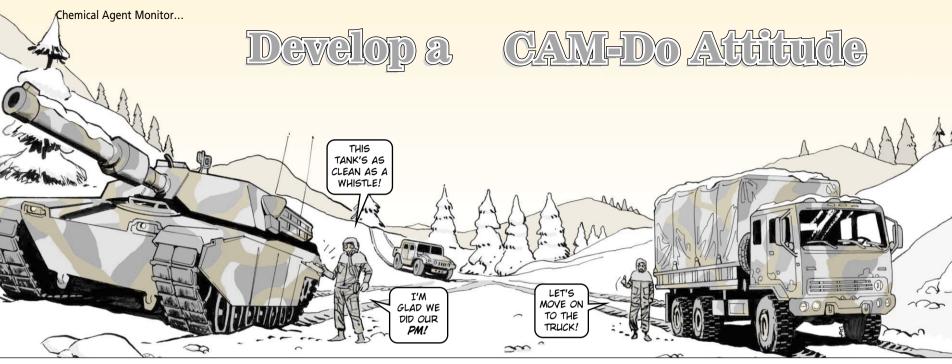
"REAM THE PLUG AND GAS PORT HOLE AGAIN. USE THE GAS CYLINDER BRUSH TO CLEAN THE CYLINDER BORE. YOU'RE DONE."

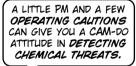
"FOR MORE INFO, SEE CHAPTER 3 OF TM 9-1005-313-10." "ONE CLEANING PRODUCT TO **AVOID** IS CLP."

"CLP ACTUALLY TURNS INTO CARBON BECAUSE OF THE HEAT PRODUCED DURING FIRING." IF YOU CAN'T
REMOVE ALL THE DRY CLEANING
CARBON, TELL
YOUR ARMORER.
YOUR ARMORER.
REST.



PS 591 45 FEB 02





PS 591

NBC NCOs

If you don't run **all** of your CAMs 30 minutes every week, they will give you problems. It's as simple as that.

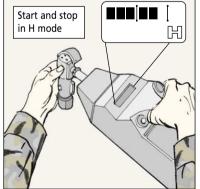
Fortunately, most problems can be solved by running the CAM until it passes the confidence test or for up to 72 hours straight. But if that doesn't solve your problem, send the CAM to support.



Operators

47

Start and stop the CAM in the H mode. That's the only way it will properly self-test.



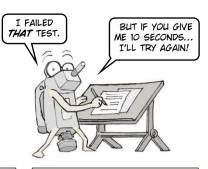
Never leave the sampler on for more than 1 second or the CAM gets saturated and becomes difficult to clear down.



PS 591



If your CAM doesn't pass the confidence test, wait at least 10 seconds and try again. You can do the test as many as five times, but must wait at least 10 seconds between tests. If your CAM doesn't pass after five tries, it's time to call your NBC NCO. More tests will only saturate the CAM.



Maintain the proper sampling distance: no closer than 1 inch for people and equipment. Any closer risks contamination.



The CAM buzzer makes it easy to keep track of distance. It sounds when the CAM detects agent, so you don't have to keep looking at the display. Your NBC NCO can order buzzers with NSN 6350-01-394-9916.

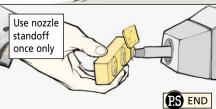


If your CAM detects something, pull it away immediately to avoid saturation.

Clear the CAM to one bar before switching modes to prevent clearing problems. Keep the CAM away from vehicle exhaust, cleaning fluids and solvents. They make it very difficult to clear the CAM.



In the field, use the nozzle standoff once only to avoid contamination, then throw it away. Keep the standoff as clean and dry as possible so it stays sensitive. If it gets dirty or wet, replace it.





Soldiers with small or large heads can cause big headaches for you NBC NCOs when it comes to fitting an M40 or M42 mask. But there are ways to relieve your headaches and make sure soldiers are protected..

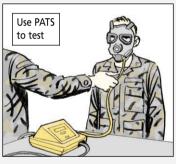
Use the M41 protection assessment test system (PATS) instead of banana oil to test every mask. PATS is much more accurate than banana oil.

If a small mask is too big to create a good seal, readjust and tighten the head harness, then test with PATS again. Sometimes that's enough for the mask to pass.

If the mask still doesn't pass, replace the headharness with a skull cap head harness, NSN 4240-01-390-3057, and re-check.

Still no luck? Then check out TB 3-4240-341-20-1, *Chemical-Biological Protective Mask for Hard-to-Fit Service Members*, for further help. If nothing works, tell your CO. He will decide if the soldier is deployable.

Check out the TB if the M40 or M42 large mask is too small for a soldier, too.







The TS-4348/UV electronic systems test set, NSN 6625-01-323-9584, tells you whether a night vision device (NVD) is good to **GO** or is a **NO GO**.

But how do you know if the test set is telling you the truth? You won't unless you get it calibrated regularly.

Armorers, look at the test set and see if a DA Label 80 is attached to it. If it is, the label will tell you when the next calibration is due. If the NVD is overdue for a calibration, turn it in to your calibration team or TMDE.

If there is no DA Label 80, take no chances. Get it calibrated. After calibration, you will have a DA Label 80 on your NVD to tell you when the next calibration is due.

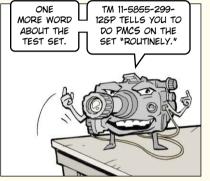
Is a DA Label 80 attached?

T5-4348/UV
TEST SET, ELEK. SYS.

PS 591 50 FEB 02

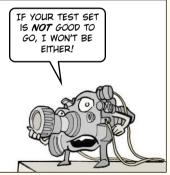
Don't wait until your test set gives you a **Check Calibration** warning before you get it calibrated. That's too late. You should be using the test set regularly in the field and that is not the time to worry about calibration.











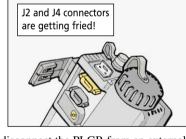
PLGR BA-5800 Battery Availability

The BA-5800 main power battery for the AN/PSN-11 precision lightweight GPS receiver, once in short supply, is now well-stocked. Use NSN 6135-01-440-7774 to get a package of eight. The old NSN 6135-99-760-9742 is discontinued. New rechargeable substitutes for the BA-5800 should be available this summer.



Fried eggs are good. So are fried chicken and fried green tomatoes. But fried J2 and J4 connectors on your AN/PSN-11 precision lightweight GPS receiver (PLGR) are not good!

But some of you must think they are, because a lot of J2 and J4 connectors are turning up fried! 'Course, a fried J2 connector usually means internal damage, too.



The problem comes when you connect or disconnect the PLGR from an external power source. The right connection or disconnection means your PLGR will live to receive another day. Get either one wrong and you'll be eating the cost of a fried PLGR, along with crow, for lunch. The key is in the connection sequence.

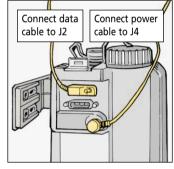


1. Make sure the PLGR and the electronic device you connect it to have a common ground before you connect the power.

The PLGR grounding wire should be attached to the same battery post as the ground wire that runs from the vehicle to the vehicle's battery.

Some PLGR installations involving computers have a special ground. If that's the case with your equipment, make sure this step includes that ground.

- 2. Connect the data cable to the J2 serial port.
- 3. Connect the remote antenna cable, if used.
- **4.** Connect the power cable to the J4 connector. Make sure you don't reverse the polarity when you're attaching the cable. The cable wire with the in-line fuse is the positive or "hot" wire. It is always connected to a positive terminal.
- **5.** Put the PLGR in its mount. Reverse the steps to disconnect the PLGR.



Keep in mind that if you remove the PLGR from the power cable instead of the power cable from its external source, you still have a hot power cable!

If you need a new power cable, get it with NSN 6150-01-375-8661. If you need a fuse for the cable, order it with NSN 6150-01-382-1551.

Finally, don't forget to remove the BA-5800 battery from your PLGR before you connect to an external power source. A BA-5800 left in a PLGR getting external juice will overheat and explode or melt the battery case of the PLGR.



PS 591 53 FEB 02



Using a rubber or fabric strap to tie down canvas covers, bundles, gear and other loose items is a cinch. But finding the right-size strap used to be a problem.

Not any more. If your equipment TM doesn't specify a strap, just select one of these.

NSN 5340-	Length (inches)	Stretch (range)
00-340-0980	10	15-20
01-029-9084	15	20-30
01-231-6015	21	26-42
01-029-9085	31	36-42

All rubber straps have an S-hook on each end.

Fabric Cargo Straps				
NSN	Size (inches)	Material		
5340-01-428-8800	1½ x 12	Nylon		
5340-00-678-9031	1 x 18	Nylon		
5340-00-530-5021	1 x 20	Nylon		
5340-00-543-3477	1 x 24	Nylon		
5340-00-664-0364	1 x 26	Cotton		
5340-00-543-7110	1 x 28	Nylon		
5340-00-753-3742	1 x 30	Nylon		
5340-00-543-3188	1 x 33	Nylon		
5340-00-753-3744	1 x 36	Nylon		
5340-00-339-3768	1 x 42	Nylon		
5340-00-543-3155	1 x 45	Nylon		
5340-00-753-3745	1 x 48	Cotton		
5340-00-543-3173	1 x 51	Nylon		
2540-00-715-3854	1 x 54	Cotton		
5340-00-958-6917	1 x 60	Cotton		
5340-00-894-9545	1 x 64	Cotton		
5340-00-949-8637	1 x 18	Cotton		
5340-00-854-6737	1 x 108	Nylon		
5340-00-134-3196	1 x 114	Nylon		

Each fabric strap is OD green and comes with a buckle to secure it in place. If you need a different size, see your installation DOL. They may be able to fabricate straps from bulk stock.

Use Appendix A of CTA 50-970 as your authority for ordering the straps.

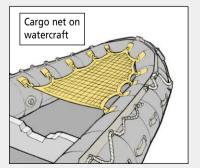
F470 Watercraft...

KEEP CARGO SECURE

NSN 3940-01-477-7081 gets a tailormade cargo net for your F470 Zodiac attack watercraft. The nylon net holds cargo in place and adjusts easily for a snug fit. It's held in place with carabiners.

A three-position molded nylon clamp locks a cinching rope, which goes around the entire net.

Each net includes a black nylon stowage bag with a draw cord closure. Installation instructions are included.





PS 591 54 FEB 02



ISUs can be moved by forklift or helicopter and they're easily loaded onto airlift aircraft.

The containers also fit on 2½-ton and 5-ton trucks. They can be outfitted with low-speed or high-speed mobility wheel sets or corner casters for easy movement.

Here are some of the available ISUs. These are OD green, but they're also available in desert tan, gray, white, black or a custom color:

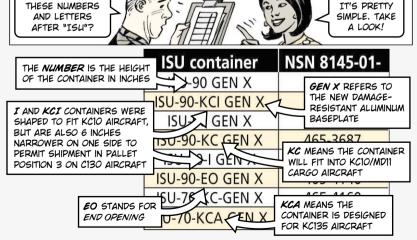
BONNNIE, WHAT'S

THE DEAL WITH ALL

ISU container	NSN 8145-01-
ISU-90 GEN X	465-3621
ISU-90-KCI GEN X	465-4140
ISU-60 GEN X	465-3629
ISU-90-KC GEN X	465-3687
ISU-90-I GEN X	465-3685
ISU-90-EO GEN X	465-4146
ISU-70-KC-GEN X	465-4160
ISU-70-KCA GEN X	478-9990

DON'T LET 'EM

CONFUSE YOU.

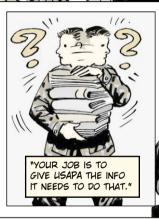


If you have questions or need help ordering ISUs, contact the Defense Supply Center Philadelphia. Call Cindy Ciardullo at DSN 444-7406 or (215) 737-7406 or Maureen Leiter at DSN 444-7355 or (215) 737-7355.

Plbs System "FAQ"tering



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USAPA ATTN: New Account Processing 1655 Woodson Road St. Louis, MO 63114-6128

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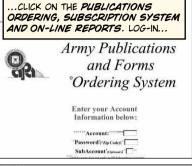
WHEN YOU GET YOUR PUBS ACCOUNT NUMBER, GO TO http://www.usapa.army.mil

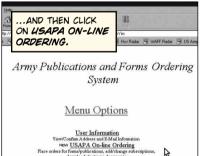
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Unit of Issue: EA

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"OTHERWISE, YOUR PUBS WON'T FOLLOW YOU TO YOUR NEW UNIT LOCATION NOR WILL THE PUBS







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"OR, GO TO THE USAPA WEB SITE AND CLICK ON ARMY ADMINISTRATIVE ELECTRONIC PUBLICATIONS AND REVIEW THE PUB ON-LINE."



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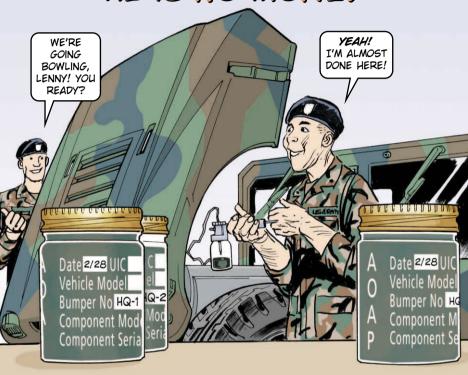
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PS) END



THE SAMPLER WAS A SPECIALIST BUT ALAS HE IS NO MORE!



HE TOOK THE OIL FROM ONE CRANKCASE AND SENT IT IN FOR FOUR! YOU CAN'T FOOL THE AOAP LAD!