



THREE YEARS HAVE PASSED SINCE THE WAR IN SOUTHWEST ASIA, BU THE BATTLE'S NOT YET OVER. MOST EQUIPMENT WAS STORED WITHOUT BEING SERVICED, NOW, AS MUCH OF THAT EQUIPMENT IS COMING OUT OF STORAGE, DELAYED DESERT DAMAGE IS ONCE AGAIN REARING ITS HEAD.

> EVER SINCE THIS TANK WAS PULLED OUT OF STORAGE, WE'VE HAD NOTHING BUT PROBLEMS WITH IT

WHAT'S THE PROBLEM?

THIS TIME THE CREW SAYS THE HYDRAULICS ARE MAKING RANGE NOISES

LOOKS LIKE THAT OLD GHOST, DESERT DAMAGE, IS BACK

MASTER SERGEANT HALF-MAST!

"BACK IN SOUTHWEST ASIA, HEAVY DUTY MAINTENANCE WAS THE ONLY WAY TO GET TOP PERFORMANCE OUT OF OUR EQUIPMENT





"BUT THE DESERT SAND DIDN'T STAY BEHIND, NOT EVEN HOSEDOWNS BUDGED THE SAND. IT GOT INTO TURRET RACE RINGS, FUEL TANKS HYDRAULICS, AND TRANSMISSIONS

GENERALLY, IT'S UP TO YOU NOS TO MAKE SURE YOUR MECHANICS UNDERSTAND THE PROBLEMS AND GET TO WORK ON THEM NOW.



NCOS, DON'T WAIT FOR SYMPTOMS OF DESERT DAMAGE TO APPEAR IF YOU'VE GOT ANY KIND OF EQUIPMENT COMING OUT OF STORAGE.



CHECK THE DA FORM 2408-9, EQUIPMENT CONTROL RECORD. IF IT WAS NOT SERVICED AFTER DESERT STORM, GET IT

PS495





FIREPOWER

Desert Damage

THE **PREVENTIVE** MAINTENANCE MONTHLY

TB 43-PS-495, The Preventive Maintenance Monthly, is an official publication of the Department of the Army, providing information for all soldiers assigned to combat and combat support units and all soldiers with unit maintenance and supply duties. All information published has been reviewed and approved by the agency responsible for the equipment, publication or policy discussed. Application of the information is optional with the user.

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

Supply Publications

MSG Half-Mast The Preventive Maintenance Monthly Bldg. 3325 Redstone Arsenal, AL 35898-7466

By Order of the Secretary of the Army:

GORDON R. SULLIVAN General, United States Army Chief of Staff

Official:

Binoculars



Administrative Assistant to the Secretary of the Army

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Mechanics, operating with a loose or torn air induction system plenum seal is the kiss of

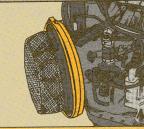
M1-Series Tanks . . .

death to tank engines.

That turbine is going to get air somewhere, regardless of whether it's clean or dirty. If the plenum seal is damaged or installed incorrectly, dirty air will kill the engine within just a few miles.

Inspection

Remove the air intake cover and look at the seal for tears or other damage. Feel under the seal's lip, too. The surface should be flexible and springy, not soft or brittle.



Leave seal end clamps in place while checking for damage

Next, examine the inner and outer hose band clamps. Look for looseness or stripped threads.

Any damage to the seal or clamps means you replace 'em. A new seal and outer clamp comes with NSN 5330-01-079-9954. NSN 4730-01-083-6059 gets a new inner clamp.

Installation

Here's what to do with them:

 Pull back the lip of the seal and slide in the inner clamp. Then put the outer clamp on the seal with the clamp screw positioned at the top.



2. Wipe off the air intake rim, then slide on the seal, top side up. Wipe the plenum seal, too.



Make sure the outer edge of the seal lines up with the yellow line all the way around the rim.



3. Pull back the lip and slide the inner clamp around so that the clamp screw is at 5 o'clock.

4. Torque both the inner and outer

4. Torque both the inner and oute clamp nuts to 60–85 lb-in.

PUCKER

UP, BIG

BOY



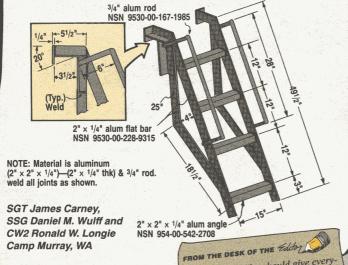


It's always been very hard to climb up on the Bradley, but it's even harder when you're pulling the powerpack and the engine access door is open.

In the motor pool, you have access to mobile ladders. But when vou're in the field, you have to climb up the best way you can-usually banging and bruising your knees and shins.

We've come up with a lightweight aluminum ladder that we keep with our maintenance truck. When we go out to make field repairs, we simply hook it to the track skirts and we're set to go.

The ladder costs about \$55 to make and only weighs about 10 pounds. Here's how to make it:

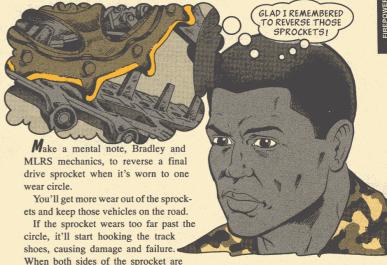


That new ladder should give every-

one a leg up on the competition.

Thanks!

Rotate Half-spent Sprockets



M113-Series FOV ...

Don't Forget Fuel Cap PM

When you're pulling PM on your M113 carrier, don't forget the fuel cap.

Few people realize there's a screen cap and rubber vent grommet under the head of the fuel cap. If it's not cleaned every six months - more often in dusty, sandy environments - the cap gets plugged with dirt. Then you've got fuel flow problems.

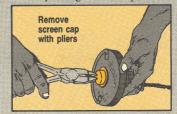
Here's what to do:

Grip the tang in the center of the fuel cap with a pair of pliers and pull the screen cap out.

worn to the circle, replace the sprocket.

■ Look at the grommet in the fuel cap. If it's damaged, replace the entire fuel cap with NSN 2901-01-083-5674.

Look at the screen cap. If it's dirty, clean it out with P-D-680.



PS 495

Right or Wrong Regulator?

Dear Half-Mast,
We just received a new
Prestolite REG-4000 engine
regulator, NSN 2920-01-300-

3737, to install on an M113A3 personnel carrier.

The carrier requires a 200amp regulator, but if you look at the nameplate under MAX AMPS, this one is marked for 17-amps. If that's true, the regulator will burn out. Have we got the wrong regulator? YOU'VE GOT THE RIGHT ONE, SERGEANT, THAT REGULATOR HAS TWO DIFFERENT CURRENT RATINGS: FIELD AND SYSTEM.

THE 17-AMP FIELD CURRENT IS WHAT YOU SEE ON THE NAMEPLATE. THE 200-AMP SYSTEM CURRENT RATING IS NOT LISTED, BUT IS BUILT IN.



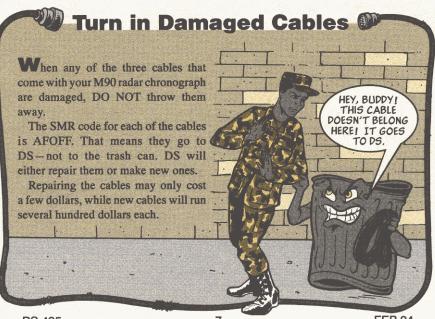
M90 Radar Chronograph . .

eware of the Battery Blues



You'll be singing the blues if you forget to remove the battery before storing the M90 radarchronograph's system test unit. The battery will corrode if it's left in place too long.

TM 9-1290-359-12&P says to remove the battery before storage, but it's an easy thing to forget. Jog your memory and prevent time-consuming DS repairs by stenciling REMOVE BAT-TERY BEFORE STORAGE on the back of the unit.



SEE ANYTHING?

GOOD PM KEEPS US

SHARP

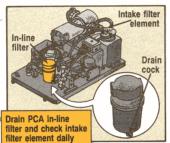
CLEAR FOR

MILES

A Guide to AMG PM

Before Operations

Condensation forms inside the AMG and causes corrosion. Drain the mast air tank and pneumatic component assembly's (PCA) in-line filter unit daily. Open the drain cock all the way to let out all water. Remember to close the drain cock when you're through.



Make sure the cables for the antenna

amplifier assemblies are tied back se-

curely before you raise the masts. If

the cables dangle, they'll be ripped off

If the Antenna Mast Group (AMG) has trouble doing its job, the Engagement Control Station and Information and Coordination Central have trouble getting the info they need to knock down missiles. Keep the info-and Patriots – flying like this:

Masts

At least monthly, run the masts all the way up. That lubes the mast seals between sections and keeps them from drying out and leaking.

If, during operations, a mast won't stay up or the mast pump runs more than 10 minutes per hour, tell your repairman. The seals are leaking. If they're not replaced, the pump motor will burn out.

Eyeball the welds for the winch's hydraulic reservoir. The reservoir vibrates a lot and cracks the welds. The reservoir can fall off.



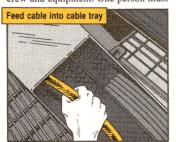
During Operations

Before you lower the brush guards, open the bleeder valves on the guards' hydraulic pumps. Otherwise, the air pressure ruins the pumps' O-rings and they start leaking hydraulic fluid. If the leaks get bad enough, you can't move the guards.



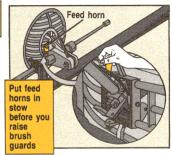
After Operations

It takes at least three people to lower the masts - using fewer risks crushing crew and equipment. One person must



feed the cable into the cable tray as the mast is lowered or the cable will be squashed between the mast and cradle.

Stow the feed horns and lower the brush guard safety rails before you raise the brush guards. Otherwise, the feed horns are bent and the amplifier cables are torn.



Put the mast protective covers back on. The covers seal out sand that can scar the masts and damage the masts' seals.



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Protecting

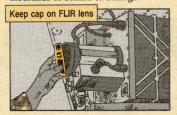
The Avenger is a quick, mobile system with lots of sting. But just a little carelessness can make it as harmless as a fly.

FLIR

Never cut off the power before you turn off the FLIR monitor. That sends a surge of voltage through the FLIR circuitry. Just a few surges ruins the circuitry.



Any time you're not operating, keep the FLIR cover on. That's the only protection the FLIR lens has against flying objects. Even a piece of gravel can cause thousands of dollars of damage.



The laser range finder has no protective caps. While traveling, cover it with a garbage bag to give the range finder lenses protection.

HERE'S HOW

TO KEEP AVENGER

AVENGING

Canopy

Never rotate the turret with the canopy up. That can damage the gas springs, the latches, and the ball joints and throw the canopy out of alignment.



Bad alignment means no seal and dangerous gases can seep in the gunner's compartment.

with PM

The only way to open and close the canopy is with the lanvard - and slowly. If you let the canopy spring open or slam shut, the mounting brackets for the canopy struts can break. Never use the lanvard as a handhold while climbing in or out. That damages the canopy, too.

Another climbing tip: Make sure the optical sight head boom is fully retracted. If it's not, you can be sure you'll accidentally kick the boom and bend it. That means no boresighting and no accuracy.



Also store the sight's combining glass between the turret wall and gunner's console. If it's left in the sight, it will break



Remote Control Unit

Before you go to the field, make sure the tie used to tie off the remote control unit cable is in the cab. It disappears often. Without it, the RCU cable has no support, and the weight of the cable breaks it at the connector. The RCU is unusable. If the tie is missing, report it. PS 495



In the meantime, use something like twine-anything that won't cut the cable - to tie off the cable.

Batteries

Remember, Avenger batteries are your responsibility. At least weeklymore often in hot weather-eveball fluid levels and clean vent holes, terminals, clamps, and trays if necessary.

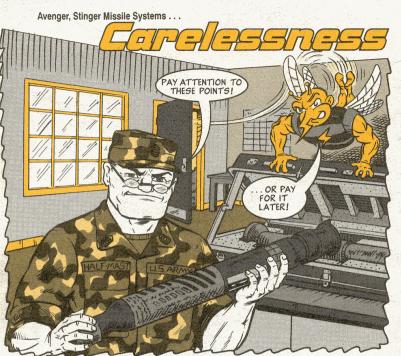
Running the system on system batteries alone drains them fast. Do that as little as possible. As part of your BE-FORE PMCS, make sure the cable from the vehicle batteries is hooked up. Without that cable, you won't operate long.

Locking Pins

The elevation and azimuth locking pins are easy to forget and they often are. But if you forget to remove them before operating, you destroy the pins and damage the launcher. Look for the pins before you move the turret. Tie ribbons to the pins if it will help you remember.

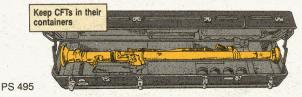


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ust a few moments of carelessness with the captive flight trainer (CFT) and coolant reservoir assembly on the Avenger and Air-to-Air Stinger (ATAS) can cost your unit thousands of dollars. Pay attention to these points, repairmen, to avoid paying later:

Keep CFTs in their containers. The containers are specially designed to protect CFTs. Substitutes—boxes, lockers, cabinets—are no substitute. As soon as you remove a CFT from the weapon system, immediately put it in its container.



FEB 94

Gosts Sto Events

Never put a CFT you suspect might be damaged on an Avenger or ATAS. That can destroy the automate connector and the launcher electronics assembly (LEA)—both high-cost items.

If the launch tubes are cracked or scratched, of if the electrical or gas connectors are dented, broken or burned—or anything else is damaged—get another CFT.



Protect the coolant reservoir assembly's male disconnect coupling with the protective collar any time the reservoir is not in use. The reservoir has up to 6,200 PSI of pressure. If it's ruptured, it becomes an unguided missile.

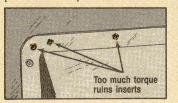


Avenger Missile System . . .

Insert Insurance

The right tool and the right torque are the premiums you pay to insure that you don't damage the Avenger canopy inserts.

If you use a wrench that's too big, you put too much torque on the insert bolts



and the insert's threads are stripped. If you use the right wrench, but turn it too hard, the same thing happens. Then the insert can no longer hold the bolt.

Support has to drill out the insert, put in a new one, and wait a day for the insert's sealing compound to dry. Quite a bit of work for a little carelessness.

Solution: Use your tool kit's torque wrench to torque canopy screws like it says in Paras 7-7 and 7-8 of TM 9-1440-433-24-1. Different screws take different torques, and you will need to check the TM for the right torque.

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MORTAR MATTERS THAT MATTER

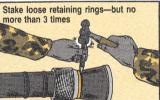


Here are a few mortar PM matters that really matter, armorers.

Locking Ring

A loose locking ring means the blast attenuator can fly off during firing. Spot a loose ring by looking for shiny spots between the attenuator cone and the ring.

Cure a loose ring by staking the ring into the groove on opposite sides with a center punch. But do that no more than three times. After that, staking does no good. You need to send the mortar tube to support.



Breech Plug

A loose breech plug ruins accuracy and causes misfires and fatal accidents. Check for a loose plug by simply trying



to turn it with your hand or looking for discoloration around the plug. Tighten

the copper seal between the plug and the cannon. If it's bad, replace it.

If the plug still won't stay tight, turn in the cannon. Forcing the plug tighter will only damage the cannon.

Look for erosion around the firing pin. Spot any? Send it to support.

Buffers

Water gets in the mount buffers and corrodes the springs. Then the buffers can't absorb the shock of firing and the barrel clamp will slip. Test for bad springs by pushing down and pulling up on the buffers. They should move smoothly back in position with no free travel.



If they don't, have support take apart the buffers to clean and lube the springs and other parts with GPL.

Handles

Rotate the traversing, elevating and cross-leveling handles for binding. Support lubes the mechanisms at annual service, but sometimes they need lubing

sooner. Without lubing, the mechanisms will be damaged if they're forced. Get support to clean and lube the mechanisms at the first sign of binding.

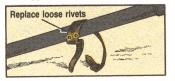


Eyeball the locking leg knob and locking nut for the cotter pin. If the pin has disappeared, the knob or nut can work loose and the M252 collapses during firing. Replace a missing cotter pin.



Bipod Strap

The rivets that hold the strap pop off easily. No rivets means no strap and no way to lock the legs during travel. Check for missing or loose rivets. Problem? Get support to install new rivets.



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COMING CLEAN

TM 9-1005-201-10 gives you the basic poop on cleaning your M249 machine gun. Experience, though, teaches you there is more to it.



Disassembly

Clear your M249. Make sure the bolt is all the way forward before you remove the buttstock. If you forget, the operating rod explodes out of the receiver and into you.

When you put on or take off the handguard, do not pound in or out the handguard pin.



Pounding can break off the receiver tab and ruin the receiver. Use the spring guide rod to push the pin. Cleaning and lubing the pin helps it slide better.

If you and your buddies are cleaning your M249s together, take care to keep parts separate. If the barrels and bolts get mixed up, your machine gun won't have the correct headspace. At best the bolt will be ruined; at the worst, the M249 will explode.

Cleaning

Carbon is the big problem for your M249. After just a couple hundred rounds, carbon starts to coat moving parts and plug the gas system. If it's not cleaned out, the weapon sputters out. And the longer the carbon sits, the harder it is to get off.

Rule 1 Clean off carbon as soon as possible after firing. Your scraper, elbow grease, and patience are about the only way to get rid of most carbon.



Pay particular attention to:

- the grooves in the regulator and piston
- the hole in the piston's front
- the chamber

ON GLEANING

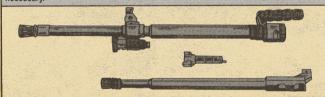
■ the part of the gas cylinder where the regulator fits. (Be careful with the cylinder—it's easily bent. A bent cylinder makes it hard for the op rod to move back and forth.)





Rule 2 Never use an abrasive like sandpaper to remove carbon. It not only removes carbon, but also the weapon's finish. Corrosion follows and your M249 is soon ruined.

Rule 3 Keep CLP away from the M249's gas system. CLP causes worse carbon build-up. CLP should never come in contact with the barrel's gas regulator hole, the gas regulator, the gas cylinder, and the piston end of the piston assembly. For firing, the regulator, chamber, barrel, piston, and bolt face should all be dry. Wipe them dry if necessary.



If you try and try but still can't clean off all the carbon, tell your armorer. He can use drycleaning solvent on stubborn carbon.



Air Shift Transmission Alert



Drivers, some of you could be driving a heap of trouble. Brakes fail on the early model M915-series trucks with the air shift transmission. This is because there's not enough reserve air for both braking and transmission shifting-especially during downhill travel.

So-o-o-o, if your next run's going to be in hilly country, you want to make sure your truck has been modified before you leave the motorpool. The truck headshed fixed most trucks by adding an auxiliary air tank. But as always, some were missed. To make sure your truck has been fixed, get down and look underneath for the extra tank. On M915 trucks, the auxiliary air tank is mounted on the frame rail (passenger side) between the forward-rear axle and exhaust pipe.



On M916, M917, M918, M919 and M920 trucks, the extra air tank is mounted below the passenger door. There should be two air tanks (both the same size) in this area.



If your truck doesn't have an extra tank installed, see your local TACOM LAR about getting your truck modified. Or write to:

> USA TACOM ATTN: AMSTA-MMAN Warren, MI 48397-5000

M939A2-Series Trucks . .

Change Counterweight Torque

Don't go anywhere without the counterweights installed on your 5-ton's front wheels. They balance the tire inflation system's wheel valve assembly and keep your tires from wearing out or blowing out.

No problem, until you have a flat. Then, you'll find out that your BII tools are no match for the torque on that counterweight's nut. That forces you into running an unbalanced spare.

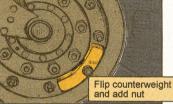
So, PM's the thing. Get unit maintenance to change the torque on the counterweight. Here are the steps they'll take:

First, for safety's sake, they'll need to deflate the tire halfway.

2. Then they'll remove the counterweight and put the nut back on the lug, torquing it to 425 to 450 lb-ft.



3. Then, they'll flip the counterweight over, fitting the slot around the nut.



4. They'll then add a new nut to the counterweight. Some wheels take a 3/4-in nut, NSN 5310-01-102-2711. Others use a 5/8-in nut, NSN 5310-01-210-0199. The torque on these nuts is 40-60 lb-ft. Your Bill tools can easily handle that.

5. Finally, they'll re-inflate your tire to the proper pressure and you're ready to roll!

This word is on Page 3-50 of the TACOM EIR Digest, TB 43-0001-39-2 (Sep 92).

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HMMWV ...

Transfer Case Leaks

operators, if you notice leaks at the transfer case cooler lines, fight the urge to put a wrench on the nut to stop the leak. Report the leak instead.

Too much tightening can damage the cooler inside.

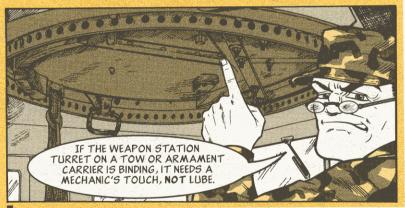
Mechanics, when you see a leak, use torque – not muscle – to tighten the retaining nuts.

Use torque wrench, NSN 5120-00-640-6364, from your Common shop sets. The nuts get 16–18 lb-ft of torque. If you have an inch-pound wrench available, use 196 to 216 lb-in.



HMMWV Carrier Turrets...

You've Got to Adjust



Lubrication ruins the bearing by attracting grit and grime, which bind the turret even more. Some lubes can even ruin the balls inside the bearing.

TM 9-2320-280-20 left out the adjustment procedures, so get a copy of EIR Digest TB 43-0001-39-3 (Dec 92). The word is on Pages 3-40 through 3-52. If you don't have the TB, contact your local TACOM Logistics Assistance Office, or write to Half-Mast.

Warning Light Flicker



flickering brake warning light on your CUCV does not necessarily mean brake problems.

The power steering, fluid-assisted hydraulic brake system develops high pressures. And the pressure does not release quickly.

This momentary high pressure keeps the warning light on, or maybe flickering, for a short period. If the light goes out in two or three seconds, the brakes are OK. But if the light stays on, tell your mechanic. You don't want to drive around with dragging brakes. They'll burn up quick-like.

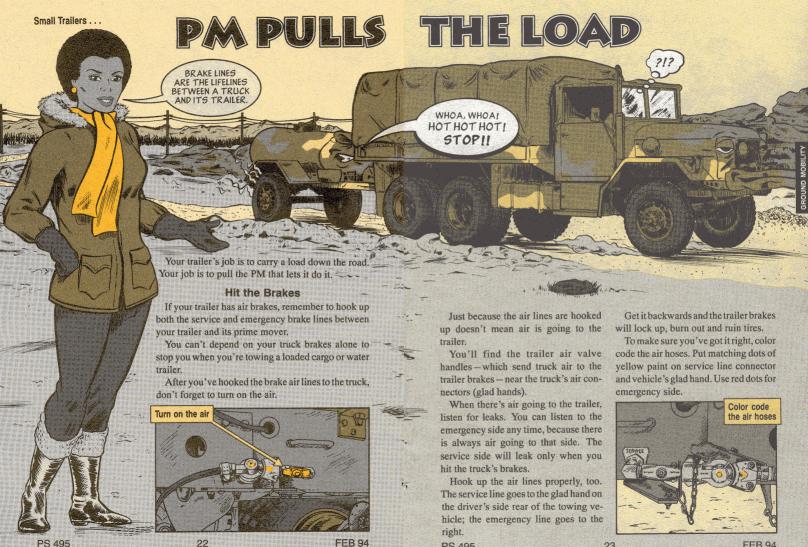
CUCV Mirror Stickup

Windshield-mounted rearview mirrors can fall off when heat, cold and vibration loosen the mirror's mount. Stick the mount back on with tough adhesive. It comes in a 1.75-oz tube, NSN 8040-00-221-3813, and a 1-qtcan, NSN 8040-00-634-7121.



Chock Those Wheels





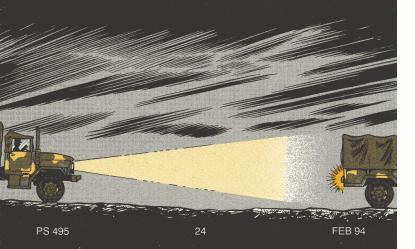
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Check fluid level in trailer's master cylinder. If you let cylinder go dry, you stop brakes from stopping you.



Lights!

Remember to connect the electrical harness cable. Turn signals and brake lights are a warning to vehicles behind you that you're changing direction or speed. That clear warning can save you a rear-end collision, especially at night.



Save pins and connectors on the cable by lining up the connector's keyway with the receptacle's key. If the keyway is too snug, spread it with a screwdriver blade.



Then make the connection firmly and slowly. Forcing the connection can bend or break pins and leave you without lights.

If pins do get bent, straighten them with needlenose pliers. You can even pull them back into place if they get pushed back into the plug.

Worried about cables or air lines getting pinched or run over? Tie them to safety chain eyebolts with nylon ties, NSN 5975-00-156-3253.

Likewise, when you unhook the trailer at the end of your mission, remember to unhook the harness and brake lines, too. If you forget that, you'll lose connectors or cables or both when you pull away from the trailer.

When you're hooking up the lights and brakes to your prime mover, remember the safety chains. Crisscross the chains under the tow pintle. The chains can then support the lunette if it should come loose from the truck.

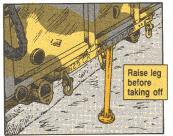
Hook the chains to the eyebolts provided on the truck—usually behind the bumperettes.

PS 495

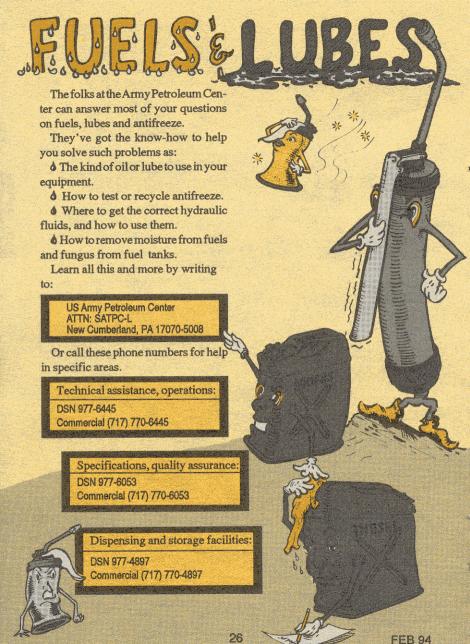


Break A Leg?

Remember to raise the landing leg or rear support leg before you take off. Running through the motor pool with a leg lowered is bad news. Going cross-country with it down is a death sentence for the leg and maybe the trailer. The leg will snag on something and break, bend or toss your trailer.







GMb6162762

FOLLOWING THEIR THIRD STRAIGHT 7-11 SEASON AND THE FIRING OF HEAD COACH SEYMOUR LOSSES, TRAINING CAMP GETS UNDERWAY FOR THE NFL'S TOLEDO WILDCATS.

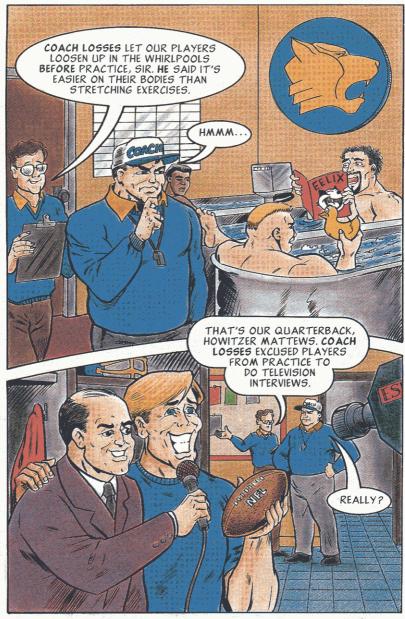


THE NEW HEAD COACH, WILLIE DOIT, IS BUSY REVIEWING PLAYER WORKOUTS.

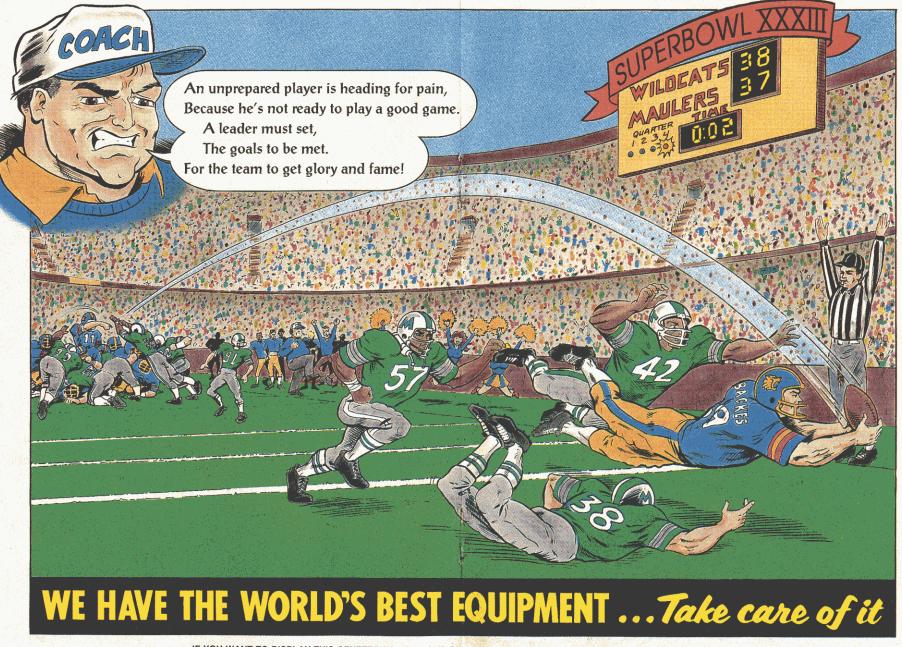


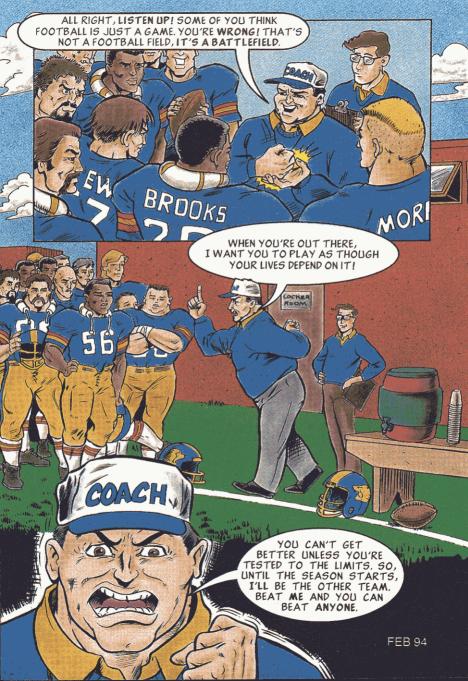
FEB 94

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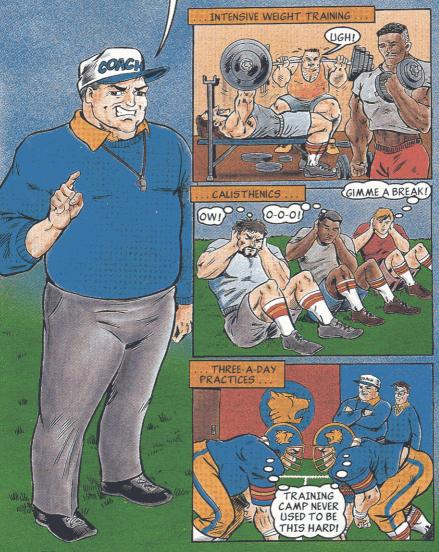




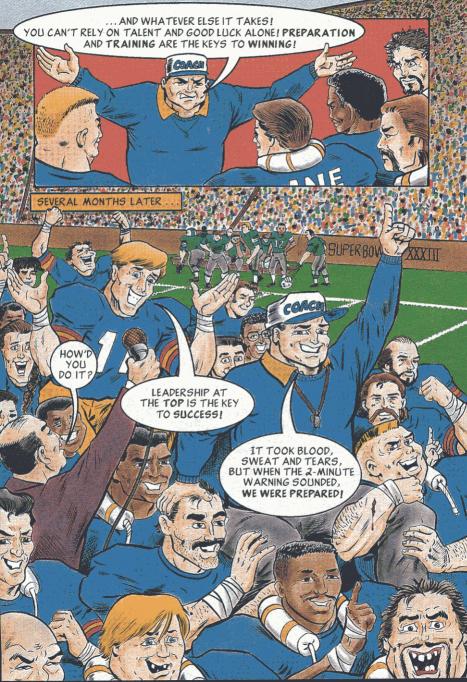




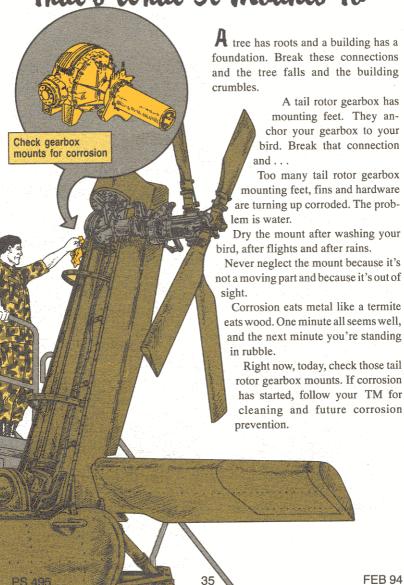
IF YOU CAN'T HANDLE THE BATTLES OF TRAINING CAMP, YOU HAVE NO CHANCE TO WIN THE WAR – THE SUPER BOWL! THAT'S WHY WE'RE GOING TO START...



PS 495 33 FEB 9



That's What 9t Mounts To



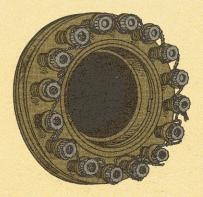
Scratch One Plate



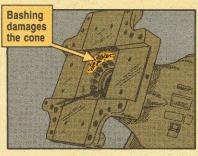
The inner retention plate on the Black Hawk's tail rotor gear box is being scratched and nicked.

The culprits are a crowfoot wrench, safety wire pliers and careless mechanics. The victim is the cone area of the retention plate.

Replacing the plate and seals requires removing and reinstalling 16 nuts and lockwire for each. While this is being



done, the ends of the wrenches and pliers are bashing against the cone of the plate, causing scratches and nicks.

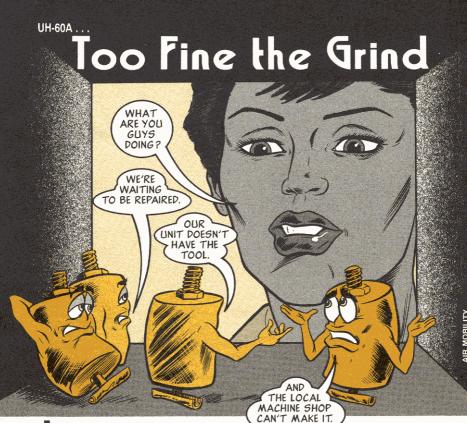


That means more work at the depot to polish, blend and re-shotpeen the damaged area.



With just that little extra effort, you can save a ton of repair time and money.

PS 495 36 FEB 94



In your rotor shop, is there a pile of damper indicators in a dark corner? Seems that the first step in repairing them, Para 5-4.3a. of TM 55-1520-237-23, can't be done.

That step says to use locally made damper indicator insertion and installation tools. The instructions to make the tools are Figs H-208 and H-209. So you haul your TM to the machine shop, only to hear your machinist say, "No way!" That's because they can't machine it fine enough to meet the called-for 0.011-in wall.

So another indicator goes on the pile. Solution?

Order the tools. They cost about \$150 each. Order on a DD Form 1348-6 using CAGE 55723 from S9I. Or get them direct from:

Spectrum Associates, Inc. 179 North Broad St Milford, CT 06460-4726

Or call them at: 203-878-4618.

They're the folks who make the indicator, so you can bet the tools will work.



Turn Down Fire Detection

Dear Windy,

The right side fire detection control at Station 482 on the Chinook often gets water and hydraulic fluid in it. To solve that problem, we inverted the connector for the No. 2 engine fire detector control, 231A2.

Simply follow the removal instructions in Para 12-8 of TM 55-1520-240-23, but when you reinstall the control, turn it upside down! That way, fluid won't seep down through the plug. Reinsert the four screws and washers and you're ready to go.

Larry Borchetta St. Louis, MO







Commo Caple Maintenance

38

Preventive maintenance for the gunner's harness intercommunication assembly means strengthening the cable at two places.

Electrical connector plug, NSN 5935-00-553-9352, at one end of the cable and electrical connector plug, NSN 5935-00-331-8371, at the other end both pull away from the cable. That frays the cable and shorts your connection.



Wrap both areas with black electrical tape. This will reinforce the cable connection and absorb some of the cable stress.

Tape this end..



PS 495

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When the engine's started, that ice gets sucked in. Then you can kiss compressor blades and inlet guide vanes goodbye.

If you can't keep your Huey inside, keep the IPS covered until you're sure Spring has sprung.

The IPS cover is a homemade item. Get your AVIM on the job. They'll follow the info in Fig D-407 of TM 55-1520-210-23-3.



AH-1 . . .

Don't Get Caught in a Bind

A lint-free cloth is all right, but say "No way!" to high-pressure water, air, or P-D-680.

It's OK to clean the oil cooler turbine fan with a lint-free cloth. But you don't want to dry up the grease.

That grease is all that's keeping the bearings out of a bind.

So do the inspection, look for binding, clean with a lint-free cloth - and guit.



Cobra Baffle Seal

You can no longer get the baffle seal with NSN 5330-00-986-6284.

Now you must make the seal, Items 14 and 32 of Fig 41 in TM 55-1520-236-23P1, from bulk material, NSN 9390-01-130-1886. Instructions are on Pages D-129 and D-130.1 of TM 55-1520-236-23-3.



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TMDE Repairs AVA Now



Repairs to the Aviation Vibration Analyzer (AVA), NSN 6625-01-282-3746, that replaced the Vibrex for tracking and balancing blades, is now off contractor maintenance. Repairs will be made by the Army's TMDE activities beginning in April.

When you turn in an AVA for repair, make sure you turn in the whole kit including the adapter cables. The AVA must be repaired and tested as a complete unit. Find the kit and accessories in TM 1-6625-724-13&P.

Although you no longer go to the maintenance contractor for repairs, you can still call them with procedural or maintenance questions on the AVA.

Call Scientific Atlanta in San Diego, CA, at 1-800-842-2769 or fax a problem to them at (619) 679-6438.

PREDICT THE LEAKS

reventive maintenance is stopping problems before they become problems. In some cases, such as fuel line leaks, this power to predict and prevent is critical. Inspect fuel lines and fittings often. Look for deterioration and wet spots. Feel for moisture.

If you find a leak, report it immediately.

Leaking fuel leads to fires. It has already happened in a Cobra engine compartment when a fuel drain line leaked at the fitting.

TIRED?

Your 2-inch thick AGPU TM has less than a half-page on tires, yet your AGPU won't move without them.

The top AGPU tire killers are engine oil and hydraulic fluid. Oil eats tires. Soon, chunks of rubber fall off. Then flats and blowouts happen.

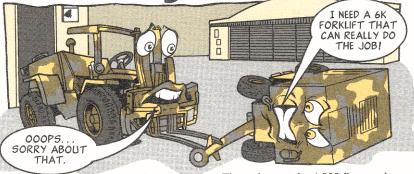




Never let a tire sit in an oil or hydraulic fluid spill. And never let hydraulic fluid drip on tires.

When you replace tires, replace both on an axle. Use NSN 2610-01-347-9730. It's a wider tire that will give your AGPU better traction. It also has more plies for a longer life.

No Puny Forklifts



ou're inviting disaster if you lift an AGPU with a small forklift. The AGPU will tip and fall.

A filled AGPU weighs 4,275 lbs. So, use forklifts that have at least a 5,000-lb capacity.

That rules out the 4,000-lb capacity, M4K, but makes the 6,000-lb capacity, 6000M, just right.

Never try to make do with a forklift with tines that don't fit into the AGPU pockets. Tines must reach at least 49 inches into the AGPU pockets.

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Line Up

Line up the cable connector and the receptacle before you squeeze them together. Forcing them at an angle can bend or break contact pins. Once they're mated, fasten the connector and receptacle locks at the same time.

Same goes when you disconnect the cable. Release the locks together and lift evenly.

Cover Up

When you're not using the cable, put a cover, NSN 5935-00-883-4265, on receptacles . . .

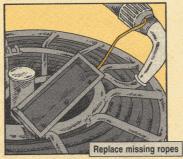




Cable Fable

The covers keep out dirt and moisture that can silence your commo.

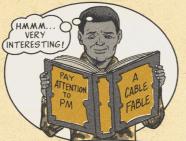
Keep covers attached.



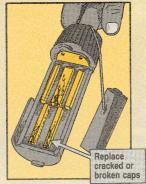
If the ropes holding them on are lost or damaged, ask your unit repairman to make new ones. He'll need:

ITEM	NSN
Wire rope	4010-00-575-6233
Swaging sleeve	4030-00-431-5536
Compressing tool	5120-00-323-2292

Appendix A of CTA 50-970 is the ordering authority.



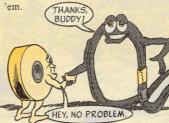
The plastic caps on your connectors and receptacles protect the contacts from bending during hookup. If the caps are cracked or broken, your repairman can replace them.



He can order a replacement kit with caps for 10 connectors with NSN 5999-01-073-5507.

Tape Up

Cable cut or cracked? Use electrical tape, NSN 5970-00-685-9059, to patch



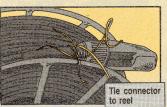
Cover Up



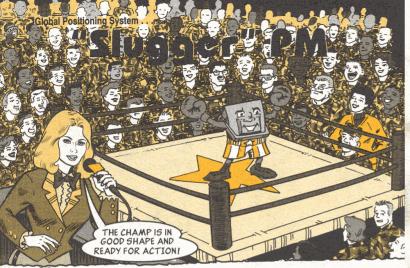
Heavy vehicles running over cables break the insulation and mash internal wiring. Place the cables away from heavy traffic areas. If you have to lay a cable across a road, protect it with boards or dig a small trench for it. In some cases you may have to bury your cable - 6 to 12 inches in regular soil, 2 to 3 feet in sandy ground.

Reel Up

When you reel up the cable, protect the connector. Tie it to the inside of the



reel rim with field wire or twine. If it's not hanging loose, it can't get stepped on or banged around.



Make your small lightweight global positioning system receiver (SLGR) a real slugger with these PM tips:

■ When you mount the SLGR on your vehicle, be sure you just hand tighten the bolts. If you use a wrench on them,

you'll crack the mount.

KEEP CAPS
ON CONNECTORS
WHEN THE SLGR'S
NOT IN USE TO
KEEP OUT DIRT
AND SAND.



■ Be careful where you put your hand when you handle the SLGR. Keep fingers and other objects away from the readout screen.

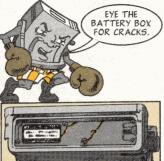


ANY TYPE OF PRESSURE CAN VERY EASILY BREAK THE SEAL OR CRACK THE LENS.

If the seal is broken, moisture gets inside and shorts out the electronic parts.

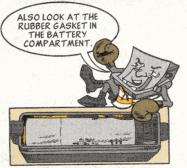
FEB 94

Blow off dust and dirt on the readout screen with low-pressure air. Wiping off dirt with a cloth can scratch and ruin the surface.



EASY DOES IT
WHEN YOU OPEN
OR CLOSE
THE BATTERY
COMPARTMENT
LATCH.

There's only one latch, and getting heavy-handed will leave you with nothing to hold the battery lid.

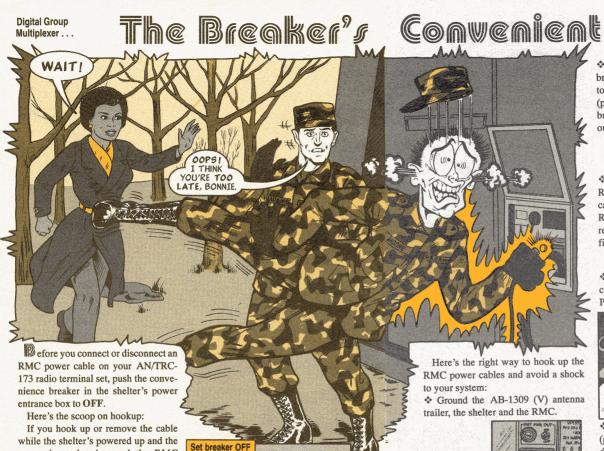


If the gasket's chipped or missing, moisture gets in and causes corrosion. You may need to replace the entire system if moisture gets inside.

To make a better seal, put a dab of silicone grease, NSN 6850-00-880-7616, on the rubber gasket.



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convenience breaker and the RMC

power switch are ON, you'll get arcing.

PWR receptacles, cable connectors,

and the RMC's POWER receptacle and

electromagnetic impulse filter. Even

worse, you could get a deadly shock.

Arcing damages the shelter's RMC

Make sure the RMC's POWER switch is OFF.



Set the shelter's convenience

breaker to OFF (pushbutton out).



Hook up the RMC power cable to the RMC's POWER receptacle first.



Then connect the other end of the cable to one of the shelter's RMC PWR receptacles.



- Set the convenience breaker to ON (pushbutton in).
- Set the RMC's POWER switch to ON.

Before you disconnect a cable, make sure the RMC's POWER switch and the convenience breaker are OFF. Once the cable is removed, set the convenience breaker to ON.

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KEEP YOUR AN/GRA-39 RADIO SET

CONTROL GROUP COMMUNICATING

WITH PM FOR THE BATTERIES,

BATTERY BOX AND COVER.

HERE'S

THE FACTSI

TAKE A GOOD LOOK AT THE SIX

BA-3030/U BATTERIES.

NSN 6135-00-835-7210

IN THE C-2328 REMOTE

AND C-2329 LOCAL

CONTROL UNITS.



POLISHING CLOTH, NSN 7920-00-985-6849 OR ISOPROPYL ALCOHOL, NSN 6810-00-753-4993 AND A LINT-FREE CLOTH

SOMETIMES CONTACT STRIPS WORK LOOSE. IF THEY'RE LOOSE, THEY WON'T MAKE GOOD CONTACT WITH THE BATTERIES HAVE YOUR UNIT REPAIRMAN GLUE THEM DOWN.



INSTALL NEW BATTERIES TWO AT A TIME ROLL THE PAIR INTO POSITION TO MAKE THEM SNUG. THE RIGHT POLARITY IS PRINTED ON THE CASE.

> ALSO. LOOK INSIDE THE BATTERY BOX COVER.

CUT A 5/8-IN. NOTCH DOWN THE CENTER OF THE PAD TO THE BATTERIES NSN 9320-00-626-8972.15 MISSING OR WORN, GET DS TO REPLACE IT,

LOOK AT THE COVER GASKET, NSN 5330-00-930-6169 A GOOD SEAL DEFENDS AGAINST MOISTURE. IF THE GASKET'S CRACKED, FLATTENED OR MISSING SECTIONS, HAVE DS REPLACE IT

HELP HOLD

TH PLACE TE THE PAD

> THERE'S ONLY ONE RIGHT WAY TO CLOSE THE BATTERY COVER. LAY THE COVER FLAT ON THE BATTERIES, PRESS IT DOWN UNTIL IT'S SEATED. THEN FASTEN BOTH LATCHES AT THE SAME TIME.



LATCHING ONE SIDE AND THEN FORCING THE OTHER SIDE DOWN IS DOUBLE TROUBLE. FIRST, IT CAN CRACK THE CASE. IT ALSO CAUSES BATTERIES TO SLIP AND LOSE CONTACT.

> AND THAT'S IT. FOLKS

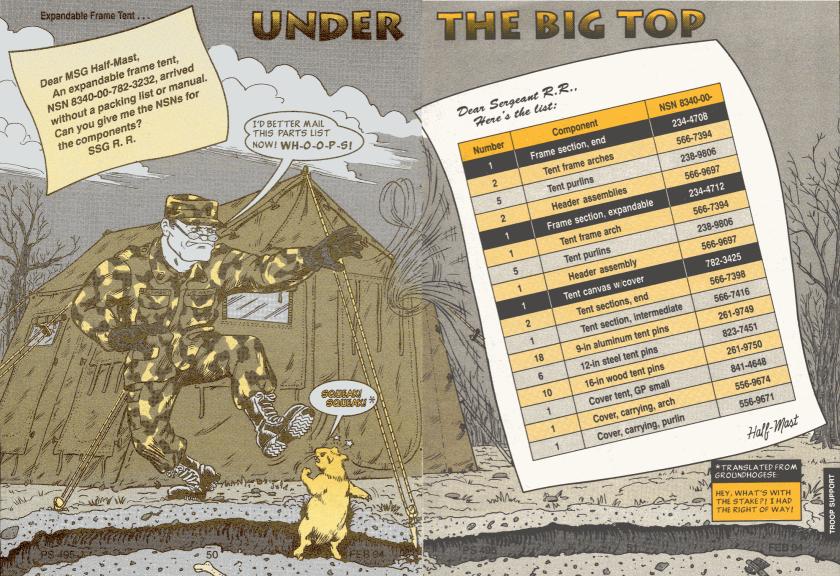
PS 495

KEEP FRESH BATTERIES ON HAND-SIX FOR EACH UNIT BATTERIES LAST FOR ABOUT 144 HOURS OF OPERATION IN THE LOCAL UNIT AND 48 HOURS IN THE REMOTE UNIT.

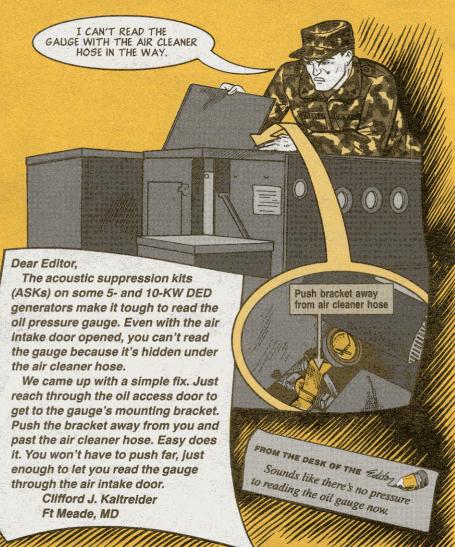
THAT'S RIGHT, AND MAKE SURE ELECTRICAL CONTACT STRIPS ARE CLEAN, ESPECIALLY AFTER YOU RETURN FROM THE FIELD.

ANY LEAKING SWELLING OR BULGING? IF EVEN ONE BATTERY LOOKS BAD, REPLACE ALL SIX.

WHEN YOU'RE NOT USING THE CONTROL GROUP, REMOVE THE BATTERIES. THE SET MAY BE IDLE, BUT THE BATTERIES ARE NOT. THEY CAN LEAK AND CORRODE THE BATTERY BOX.



EASY-TO-READ OIL GAUGE



M22 Binoculars ...



DIFFERS FROM THE OLD ONE IN THE FOLLOWING WAYS:

- * The laser filter has been moved inside the housing, behind the objective lens. That cuts down on reflected sunlight that can give away a soldier's position.
- * The rubber armor piece is fused to the binoculars. It's no longer a replaceable part.
- * The new M22 has four repair parts, as opposed to five for the old model.

Parts for the new and old models are entirely different. You can't swap parts between them.

TM 9-1240-406-12&P comes with the binoculars. Some folks have received an advance copy of this TM. The advance copy does not include repair part NSNs. The new M22 binoculars are NOT free issue. They cost more than \$200.

M17. A/E 324-8 Decons . . .

M17 AND A/E 324-8 DECONS ARE GOING DOWN BECAUSE.



M17s have two-cycle engines. That means EVERY time you fuel it, you must add two-cycle engine oil to the fuel. Add one quart of oil for every five gallons of MOGAS. And you need to shake the fuel can hard after you add the oil so that it mixes with the fuel.



If you forget the two-cycle oil, you can soon forget your decon. Half the A/E 324-8s going to depot for repair have seized engines.

Use 30-weight oil only in absolute emergencies, despite what TM 3-4230-218-12&P says. It will shorten the life of the engine. (Training's not an emergency!)

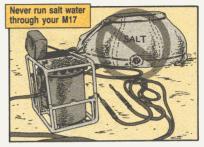
If you're not sure if oil has been added to fuel, mix another batch. Just because the fuel is tinted doesn't mean it contains the right amount of oil. Any fuel you're uncertain of can be used for the burner.

One burner fuel note: when you have a fuel choice, go MOGAS. Diesel fuel makes starting harder and is more likely to cause burner flooding.

FEB 94 PS 495

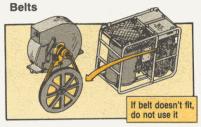
NOT ENOUGH. TOO MUCH, WRONG SIZE

Salt



Much of the decon is made of aluminum. Salt can corrode aluminum in no time. That's why decons and salt do not mix. Never run salt water through the pump. If the decon is exposed to salt air, wash it off with fresh water and dry it as soon as possible. Lube its outsides with oil, NSN 9150-00-082-7535, to fight corrosion.

There are some bad belts in the supply system. The correct belt comes with NSN 3030-00-899-4888 and has part number 7445 marked on it. If you install a belt and it appears too long or too short, do not use it. File a Quality Deficiency Report (SF 368) and order a new belt.



Chemical Agent Monitor . . .

Wipe Out Radiation Threat

The Chemical Agent Monitor (CAM) has a radioactive source. It's possible it could leak radiation.

You NBC NCOs don't want a leak. So schedule your CAMs for wipe-testing every 12 months at support.



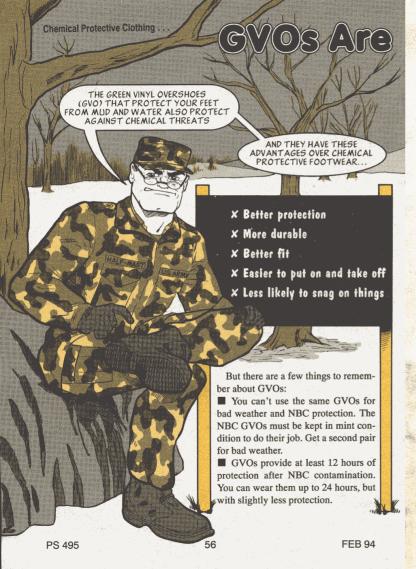
Support then sends the test results on transaction cards (see AR 710-3 for info) to:

> **Rock Island Arsenal** ATTN: SMCRI-SEM-L/Radiation **Leak Test Samples** Blda 210 Rock Island, IL 61299-6000

When you get your CAMs back, it's a good idea to put a label on each one showing when the next wipe test is due.

FEB 94

FEB 94



the Way to Co

■ GVOs can be worn up to 14 days and still provide NBC protection...as long as they have no cracks, tears, or punctures. Inspect them daily for problems. If you find any, replace the GVOs as soon as possible. But keep the old GVOs until you get the new ones. Even damaged GVOs provide some protection.



■ Use the M280 individual equipment decon kit to decon GVOs. But even then

you may not be able to decon them completely. Before vou take off vour MOPP gear, check the USE GVOs with a M280 TO chemical agent DECON GVOS monitor, M8A1 alarm, or M9 detector paper. If they're still con-

taminated, decon them as best you can before you take off your MOPP gear.

■ Keep DS2 off GVOs as much as possible. DS2 makes them slippery and causes cracking. If your GVOs are exposed to DS2, replace them ASAP.



In the meantime, step carefully, especially on metal surfaces where you can easily slip and take a fall.

Your NBC NCO can order GVOs with these NSNs:

Size	NSN 8430-01-317
3	3374
4	3375
5	3376
6	3377
7	3378
8	3379
9	3380
10	3381
11	3382
12	3383
13	3384
14	3385

PS 495 57

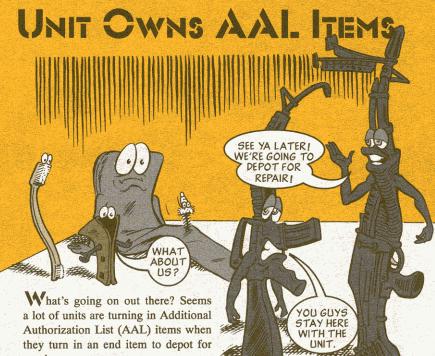
Good Advice Codes

When you check the AMDF, pay particular attention to the AcquisitionAdvice Code (AAC) column. This column gives good advice on how to submit your supply request.

FEB 94

HERE ARE SOME OF THE MOST COMMONLY USED CODES AND WHAT THEY MEAN...

12.0		BOLD CORES AND WHAT THEY MEAK
	110	
	AAC	Explanation
	D	The item is centrally managed, stocked, and issued. Requisitions are processed through normal channels.
	F	The item is fabricated or assembled from raw materials. If item has a source code of "XB" and cannot be obtained through cannibalization, it can be ordered. Use an advice code of "2A" in card columns 65-66 of your supply request.
	G	The item is managed, issued and stocked by GSA. Requisitions are processed through normal channels.
	Ĥ	The item is centrally procured but not stocked. User will receive the item direct from the vendor.
	J	The item is not stocked. Procurement process will start when requisition is received. So, expect a long lead time.
	K	The item is ordered through local purchase. Stocked for overseas requisitions only.
	L	Supply source authorizes units to buy item through local purchase.
4	V	Stock has been marked for termination. Future procurement is not authorized. Requisitions will be accepted until stock is exhausted.
PS 495	Υ	Extension of AAC "V". Supplies have been exhausted and item is no longer available.



repair. That's wrong! AAL items belong to

you-the unit-and should never be turned in unless they're not needed for other end items on your MTOE.

Then they go to DRMO as excess items.

If you turn in your AAL items, when you get a replacement for the old end item, you'll have to order another set of AAL items. That wastes precious supply dollars!

Right this minute some unit is turning in AAL items with small arms. It's a big problem. Repair shops end up with parts they don't need - and units end up with holes in their supply pocketbook.

Examples of AAL items that should not be shipped to the depot with small arms are:

Item	NSN 1005-00-
Cleaning brush, tooth	494-6602
Storage case	403-5804
Cleaning brush, chamber	999-1435
Cleaning brush, bore	903-1296
Blank firing attachment	140-3515

These items stay with the unit when the rifle or machine gun's turned in.

f your unit's moving, be sure you keep your publications coming by changing your address at the Baltimore Pubs Center!

It's simple-just send in a DA 12-R change form. Give them your account number, new and old address, and the approximate date of your move.

If your unit's being deactivated, just write "DEACTIVATED" in block 13b.

REQ	UEST FOR ESTABLISHMENT OF For use of this form, see DA Pam 25-33,	
1. ACCOUNT NUMBER	FO USE OF THE STABLISHMENT OF	A PUBLICATION
M0504 NUMBER	For use of this form, see DA Pam 25-33, 1	P PROPOSEDI -
4 FR011	7 Apr 93	
4. FROM: (Include 8. Digit ZIP Code	npr 93	3. TYPE OF SUBMISSION
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HEMTT Fire Extinguisher

Use NSN 4210-01-297-2026 to get the fire extinguisher mounted next to the driver seat. The NSN on Page B-14 of the BII is wrong.

Tighten Your Belt

The fan belts for your 60-KW DED generator, listed as Item 1 of Fig 94 in TM5-6115-545-24P, are too large. NSN 3030-00-832-4323 gets you the right-sized belts

55-Gal Water Drum

Need to carry water to troops in the field? Use NSN 8110-01-116-8194 to get a collapsible, 55-gal fabric water drum.

Cover Your Machine Gun?

Gunners, NSN 1005-00-487-4100 gets an olive drab canvas cover for your M2 machine gun. The cover can be used on both ground-mounted and vehicle-mounted M2s.

Door Handle Spring NSN

NSN 5360-01-086-8877 gets the door handle spring for the MW24C scoop loader. Make a note until the NSN is added to the parts TM.

HMMWV First Aid Kit

Worried about the first aid kit being contaminated by battery acid residue? Put it under the driver's seat. TACOM EIR Digest, TB 43-0001-39-5 (Jun 93), has the word on Page 3-15. Write Half-Mast for a copy if your local TACOM Logistics Assistance Representative doesn't have it.

AN/PRC-127 Battery NSN

Appendix D of TM 11-5820-1048-24&P lists the wrong NSN for the nickel cadmium battery pack. Use NSN 6140-01-274-0835 instead.

STE Hotline

Now you can get an answer to any question about your STE/ICE-R or STE-M1/FVS. Just call the 24-hour STE hotline, 800-229-3458 for help. If you'd rather send electronic mail, address it to T h o m p s l e % c c m a i l @TACOM.emh1 army.mil.

12-Ton Semitrailer Bolt NSN

NSN 5305-00-717-3999 gets the correct bolt for the leaf spring clip on M127-, M128- and M129-series semitrailers. The bolt shown as Item 5 in Fig 52 of TM 9-2330-207-24P is too short.

Distribution: To be distributed in accordance with DA Form 12-34-E, Block 0312, for TB-43-Series

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



...with questions, suggestions, comments, or problems with the M40/M42 masks

Call (410) 612-6550 or DSN 584-6550. You'll get an answering machine. Leave your name, grade, organization, and phone number (DSN or commercial). They'll answer your call the next working day.

PIN: 064836-000