

ystems Mechanics

There's been a new feature added to the recently revised Career Management Field 63 that you might want to check out. It's the Systems Mechanic Program.

Under the program, at Skill Levels (SL) one and two, you will perform organizational maintenance on the armament or automotive portion of one specific major combat vehicle. When you reach SL 3 (E6), you will be trained to perform and supervise maintenance on both the turret and chassis of the vehicle.

> HERE'S A BREAKDOWN OF THE YEHICLES
> AND THEIR MILITARY OCCUPATIONAL SPECIALTY (MOS) NUMBERS ...

Specialty MOS Self-Propelled Artillery XM1 Tank 45E, 63E M60A1/A3 Tanks 45N. 63N Infantry and Cavalry 45T. 63T Fighting Vehicles

a Systems Mechanic and would like more information...

CALL THE ORDNANCE CENTER AND SCHOOL HOTLINE ON AUTOVON 283-5542!

Or write to:

Commander

MD 21005

US Army Ordnance School

Aberdeen Proving Ground.

ATTN: ATSL-DOES





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Within limits of availability, older issues may be obtained direct from Editor, PS Magazine, c/o US Army Materiel Readiness Support Activity, Lexington,

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PS wants your ideas and contribu- MSG Half-Mast tions, and is glad to answer your PS Magazine questions. Name and address are Lexington, KY kept in confidence. Just write to:

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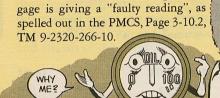






MAYBE -- BUT MORE LIKELY IT NEEDS BETTER PM! MUST NEED A NEW OIL PRESSURE SENDING UNIT!

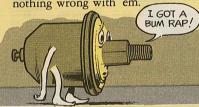
Jahrel (2 hallerson Continuely to



March Some a March Shop of the Comment of the College

Too many M880-series vehicles are being deadlined—"not ready/ available"—because the oil pressure

Too many oil pressure sending units are being replaced when there's nothing wrong with 'em.

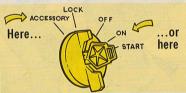


Too many mechanics don't seem to realize that dirt 'n' grease in an electrical connection make for a mighty poor hookup.

Too many drivers are hose-happy when they're washing out the engine compartment.

FROM SCRATCH. STOP A LOT O' HEARTBURN ... SAVE UNCLE SOME MONEY ... AND KEEP THOSE MBBO'S ROLLIN ...

Take Item 12, Instruments, in the PMCS. Before you start up the engine to check the gages, turn the ignition switch to the ACCESSORY position or the ON position. The oil gage



should show zero pressure. If the needle moves up past zero, something's wrong—so report it as a faulty reading.

Gage shows pressure long after shutdown? Report it!

10 100

Hold it! If you just shut down your engine, the gage may show slight pressure. That's OK, but the pressure should be gone within a few minutes.

Now you, Mr. or Ms Mechanic, tackle the troubleshooting—just like it says in TM 9-2320-266-20, Page 2-43. Para 2-44c. It's simple, easy and just about foolproof.

They con in want some only were affect the property of the

But you're wasting your time-and maybe repair parts—if you don't make sure electrical connections are clean and tight!

The oil pressure sending unit's tucked down between the rear of the engine and the fire wall-where it gets a heavy dose of greasy dirt. A dirty-or loose-gage wire hookup at



the sending unit is a sure bet for a "faulty" gage reading.

 Make sure the wire connector is clean.



 Make sure the sending unit connecting post is clean.



 Make sure there's a tight connection at the sending unit.



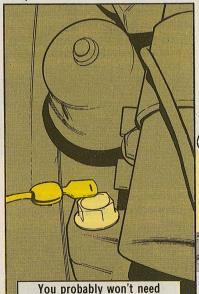


Y'MEAN THIS PAB O'
GREAGY PIRT CAN
CAUSE OUR TRUCK T'
BE DEAPLINED?

YOU'RE
CATCHING
ON, SOLDIER!

DEAPLINED?

Same goes for testing the gage with a jumper wire. Make sure the jumper wire and gage wire connection is clean and tight. Make sure you touch the jumper wire to a good ground—scrape off dirt, grease and paint down to shiny metal.



to use a jumper wire. Just

touch the sending unit wire

end connector (clean!) to some nearby metal (clean!) like

this bolt head

If you've got to replace the oil pressure sending unit, add some protection to keep moisture out. Put Sealer NSN 8030-00-874-5875 around the bottom edge of the sending unit housing—where it's crimped onto the base. Moisture can get by this crimped edge and corrode the inside. Then the sending unit won't read right—or won't work at all.

Use sealer, NSN 8030-00-874-5875, here

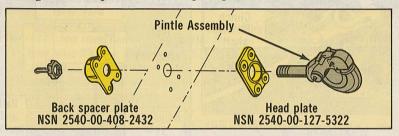
Finally, you drivers take it easy at the wash rack. There's no need to hit that engine compartment with a big—or high-pressure—stream of water. A hot oil pressure sending unit may suck in water around the bottom edge of the housing when it's cooled off fast by water—especially if there's no sealer to stop it.



Just as bad—or worse—is steam-cleaning by people who don't know how, like too much steam in some places and any steam at all in the wrong places.

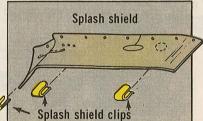


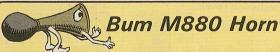
When you order the pintle assembly for your M880-series 1½-ton truck, you don't get the head plate or the back spacer plate. Get them with these NSN's:

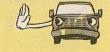


Splash Shield Clips

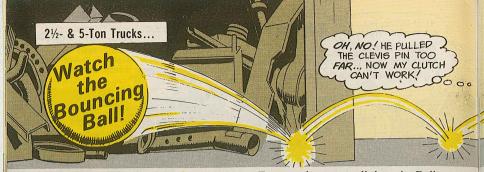
There's a new part number for clips that secure the splash shield on your M880-series 1½-ton truck. Use FSCM 79146 and P/N 62F-1 on DD Form 1348-6. The clip is a organizational repair part and will be showing up in TM 9-2320-266-20P.





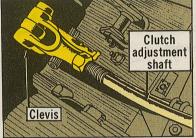


If you get a horn, NSN 2590-01-004-1905, made under contract DLA 700-80-M-B370, with just 1 electrical connector, return it to supply and prepare a SF 364 (ROD). It's a bum horn. The M880 takes a horn with 2 electrical hookups.



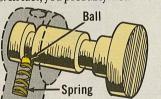
Twang!

And there goes the ball-and-spring from the clutch adjustment shaft



clevis when you're adjusting the clutch in a 2½-ton or 5-ton truck.

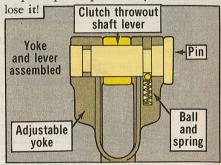
No, you can't really hear it when it goes. In fact, you probably won't notice

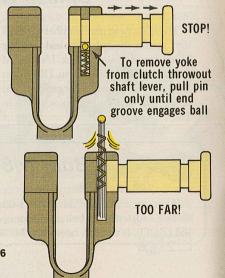


it going, it's so small...so small you'll never find it. A lot of mechs don't even know there's a ball-and-spring in the clevis!

But the driver of that vehicle is in for an unpleasant surprise. When the clevis pin falls out, the shaft drops and he can't disengage his clutch!

E-a-s-y when you pull that pin. Pull it just until the end groove engages the ball-and-spring. The ball-and-spring keep the pin in place—so you won't





The pin, NSN 5315-00-737-3224, ball, NSN 3110-00-943-6113, and spring, NSN 5360-00-692-6059, are listed in TM 9-2320-209-20P and in TM 9-2320-211-20P but not in TM 9-2320-260-20P.

NOPE-

CLEAVERS

LOSING HIS

MARBLES?

THE BALL

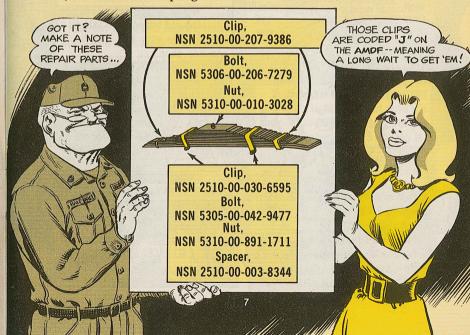
FROM THE

CLEVIS!

Semitrailer Spring Parts

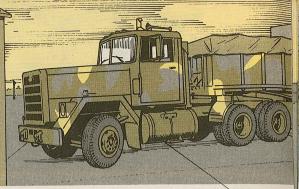
Several different trailers and semitrailers use Leaf Spring, NSN 2510-00-797-9217, but their parts manuals offer few—or no—repair parts.

Check your TM for that spring NSN. Look, especially, at TM 9-2330-207-24P (Jul 73), TM 9-2330-220-24P (Aug 73), TM 9-2330-258-14 (May 72) and TM 9-2330-272-14 (Jun 72). Watch it—all of the models covered by the TM may not use the same spring.



M872 34-Ton Semitrailer...

Wheel Bearing Burnout



SEE Ch 2 FOR THE POOP ON FAIL-SAFE

That's the payoff when you try to adjust wheel bearings on your M872 semitrailer using the poop in TM 9-2330-359-14&P.

You could wind up with failed bearings.

Why?

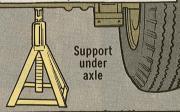
Because the TM doesn't tell you a special socket wrench is needed for the wheel bearing inner nut.

Also because the TM doesn't mention that the center axle has fail-safe brakes...that the brakes lock up when air pressure drops below 60 PSI...then the wheel won't rotate...and you can't tell when the bearings are

seated.

BEARINGS ON ALL 3 AXLES.

Then, raise the wheel to be adjusted and support the axle on a trestle from your No. 1 or No. 2 common shop set.

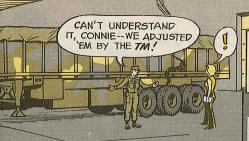


Remove the hub cap.

Keep the tractor hooked to the trailer for an air supply.

Or open the air reservoir drain valve and bleed the air system. Then back off the center axle air chamber spring brake.





Open the tangs on the tongue washer and remove the outer nut. You'll need the 8-point 3½-in socket wrench from your common #1 shop set.



Take off the tongue washer and the lock washer.

Loosen the wheel bearing inner nut. You'll need a 3 $^{13}/_{16}$ -in 8-point socket wrench, NSN 4910-01-097-6949.



The socket wrench is a special tool for the M915-series trucks and is listed on page 483 in TM 9-2320-273-20P. Use it.

To adjust the bearings, tighten the inner nut while rotating the wheel. When you feel a distinct bind—or drag—stop tightening.

Tighten while rotating wheel



Back off the nut about ¼ turn—2 flats.

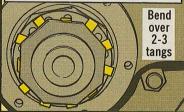
The lock washer goes on next with 1 hole over the inner nut guide pin. If the hole won't line up with the guide pin, loosen the nut until it will. Always loosen the nut—never tighten it—to line up the

hole and pin.

Line up hole key-way

Lock washer and pin

Install the tongue washer and outer nut. Tighten the nut until it's snug. Bend over a few tangs of the tongue washer—2 or 3 will do it.



Put on the hub cap and go to the next wheel.



Need a new tire for the M720 dolly set? Forget the NSN listed in TM 9-2330-285-14.

You can get a replacement tire, size 7.50 x 16, with NSN 2610-00-204-4238. The replacement tire, tho, sports a regular highway tread design and has a slightly wider tread than the original equipment tire.

The 7.50 x 16 tires can be used in sets only. Do not mix them with the original 7.00 x 16 tires.

Never ask for trouble by putting M151-series truck tires on the dolly. The M720 needs load range D tires, while the ¼-ton truck has load range C tires.

Boarding Ladder Parts

Dear Half-Mast,

Is there an NSN for the tie-down rope and guy fasteners for vehicle boarding ladder, MX-3391/G?



FOR STOWING THE BOARDING LADDER, NSN 4020-01-043-4214 WILL GET YOU THE ROPE ASSEMBLY WITH HOOKS INCLUDED! TO GET THE GUY FASTENERS, USE NSN 4030-01-040-9234!

Flexible Brake Hoses...

Never Paint Them, But...

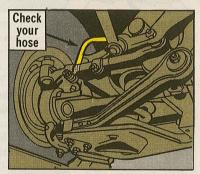


Paint on rubber brake hoses is harmful, but the remedy—the harsh solvents needed to remove the paint—can cause even more damage.

Never paint your flexible hydraulic brake hoses, but if there's paint on them...leave it alone.

The paint will crack, but surface cracking of brake hoses alone is not a good enough reason to replace the hoses. If you have cracks that go beyond the surface layer and expose the fabric, get a new hose. That's the word in TB 9-2300-405-14, Man-

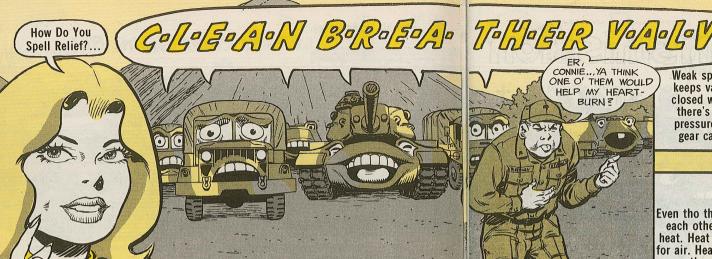
datory Brake Hose Inspection and Replacement—Tactical Vehicles.



5-Ton Truck Hose

Forget the NSN given in TM 9-2320-211-20P for Item 11, Fig 41 and Item 7, Fig 48. Get the 2¼- in ID rubber hose you need with NSN 4720-00-809-8802.





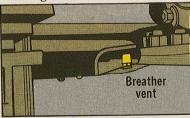
Air pressure buildup in a gear case can give you more than a case of heartburn.

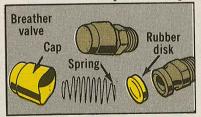
It can be fatal to your equipment!

A gear case is a housing with gears inside—like a transmission, transfer or differential (also called axle housing). These gears turn in heavy oil. The gears turning on each other make heat. So the oil gets hot-real hot! It expands. Air in the gear case gets hot, too. The air expands and has to get out-or the pressure will blow seals. And then the gear case lube will leak out.

Big trouble! If there's not enough lube in the gear case, the gears will get hotter 'n' hotter-and friction will ruin 'em.

Most gear cases have relief valves—breather valves—to let pressure escape.





Trouble is, a lot of people ignore these breather valves and don't take care of 'em. They let dirt build up around and on the valves so the pressure can't get out. So it goes out around the seals. Seals start leaking, the gears aren't lubed and damage results.

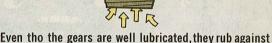
Breather valves seem to reach out and grab any dirt going by. Because oil



Weak spring keeps valve closed when there's no pressure in gear case

Air pressure in the gear case lifts the rubber disk, allowing pressure to escape

Gear Case Housing



each other during operation. This friction produces heat. Heat expands the gear oil, so there's less space for air. Heat also expands the air. This pressure inside the gear case must be allowed to escape.

fumes come out with the air, the breather valve gets oily and greasy. Dirt sticks—and gets thicker 'n' heavier. Pretty soon, the breather valve's covered with dirt. The gear case can't breathe. Trouble!

Axle housing breathers get it worst. They get plastered with road dirt and mud piles up. Your axle housing gets no relief from pressure when there's thick, caked mud blocking the breather valve. Axle seals are bound to leak!

You've got to help those breather valves. Keep 'em clean. Make sure they're working right. Twist the cap to loosen any dirt stuck up inside. Tap the cap to





knock the dirt out. (There's a spring inside the cap, so the cap should bounce when you tap it.) If the cap won't turn or won't bounce, get a new breather valve.

No, you won't find much about these breather valves in your operator's TM—but it's mighty important for you to check all of your equipment's gear case breather valves often. Especially, check 'em out after operation in dust or mud.

If your equipment's got a gear case, that gear case probably has a breather valve. Make sure it does its job. A case that can't breathe is a sad, sick case indeed.



SP Howitzers...

ransmission



Some troops are confused about when and how to check the transmission oil level for the M107/M108/M109/M110 SP howitzers and M578 recovery vehicles. And about when or how much oil to add.

Transmissions are being overfilled and ruined.

YOU MAKE ONLY THE BEFORE OPERATION - CHECK (COLD CHECK) FOR DAY-TO-DAY OPERATIONS!



THE HOT OIL CHECK IS MADE ONLY WHEN YOU NEED TO ADD OIL!

COLD CHECK

CHECK OIL LEVEL WITH FNGINE STOPPED

OPERATING RANGE

Overfill is too muchyou'll damage the transmission

Level must be in the operating range to operate the vehicle safely. Add oil when level is at or near the ADD mark

Level must be to ADD mark before starting engine.

ADDING OIL

Oil expands about 15 percent for a 100-degree rise within its operating range. So you make final oil level adjustments when the transmission is at its normal operating temperature...there is less chance of overfilling.

MAKE A HOT OIL CHECK LIKE SO ...

HOT CHECK

brakes applied and the transmission in

1 Heat the transmission oil by running 2 When the oil is at 180°-220°F, shift the engine at 1600-1900 RPM with the to NEUTRAL. Run the engine at 1200-1600 RPM for 1-3 minutes.

(3) Stop the engine. Wait 3-5 minutes for the oil to drain back into the reservoir.

OPERATING RANGE

Add oil to get a full reading. It takes about 4 gallons between the ADD and FULL marks.

Don't put it all in at once, tho, It's better to add oil several times than to overfill.

Pages 2-41 to 2-43 of TB 43-0001-39-4 (Jan 80) also has some good info on getting and keeping the right oil levels.



4th gear.

M109A2 Radiator Cap

The radiator Caps NSN 2930-01-090-4932 on the M109A2 howitzer have a tendency to stick, so you do this:

Clean the threads of both the radiator and cap and put a coat of Anti-Seize compound NSN 8030-00-180-6315 on the radiator cap threads. (It's not on AMDF. Use exception data supply request to get it.)

If you ruin the NSN 2930-01-090-

Clean and use anti-seize on radiator cap threads



NSN 2930-00-737-6626 caps to take their place. They're the ones used on 4932 caps in getting them off, order the M109A1 and A3.

M113A1/A2... Exhaust Pipe Connections



WOW! WHAT'S CAUSING THAT?



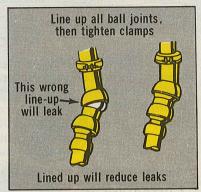
OBYIOUS! THE EXHAUST PIPE'S NOT LINED UP RIGHT!

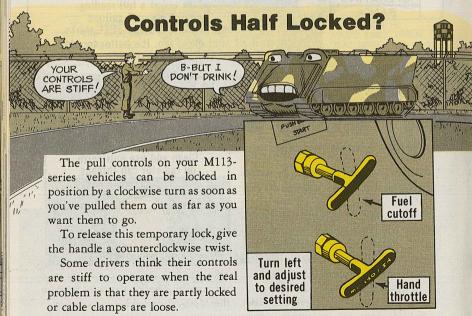
Get your exhaust pipe lined up right and you're less likely to have leaks at the ball joints.

Para.2-85c on page 2-154.3 of C7 to TM 9-2300-257-20 tells you how to do it.

Before you tighten the clamp holding the last ball joint to the flange, rotate the upper section to line up the other sections.

This will give you a good seal when the exhaust system heats up.







Hauling M728 CEV Is OK

Yes, it's OK to transport the M728 combat engineer vehicle with the M911 HET tractor truck and M747 semitrailer. The M728 weighs 115,000 pounds without the combat load and 117,400 pounds combat loaded. That's well under the 60-ton load limit for the M911/M747 transporter. M728 weight info in TM 55-46-1 and TM 9-2350-222-10 is wrong. Those TM's and TM 43-0001-31 will be updated to give the straight poop.



Take a look at Page 200 of TM 9-2350-257-20P-1. Item 4 is the hex-head cap screw identified as NSN 5305-00-939-9267. This screw has the wrong kind of thread. You need screw NSN 5305-01-042-4436.



Rust and carbon will put your M85 machine gun down if you clean it wrong.

Some troops gun down their M85's with unauthorized cleaners and lubes.

Use only SD, RBC or the new CLP for cleaning.

Use only CLEANER authorized cleaners... SEABOAR: MTG LABS INC 944-940 69-0-4282

Use clean, dry patches or swabs.

Use only CLP, PL Special or LSA for lubing. Use LAW or CLP when it's



below 0°F. Go by your TM. Never clean and lube with Scrubbing Bubbles, oven cleaner, vegetable oil, motor oil or maple syrup.



Cleaning

After firing, field strip your weapon as on pages 16 and 17 of TM 9-1005-231-10. Clean powder-fouled parts



with RBC or CLP. Use SD where your TM tells you to. Never use it on the back plate group, bolt, sear, charger and actuator. Use clean, dry swabs on

Make sure you wipe off SD and carbon solvents before you lube. If you don't, you're putting out the welcome mat for rust and carbon build-up. That can put your weapon down.

Note: When the gun's stored, it needs a complete clean and lube job at least every 90 days.

Lubina Lightly lube all parts of your weapon with LSA, CLP or, where your TM says, PL Special. Put just a trace on the back plate, sear and bolt. If you're going to fire your M85 within the next couple of days, lube the moving parts (barrel extension, feed and ejector assembly, cover and receiver) with CLP or LSA. Before putting on LSA or CLP take off the PL Special.

Unusual Conditions

Your gun needs more PM in extremely hot weather, humid, salt-air conditions and in sandy or dusty areas. If your M85 gets wet, take it apart, dry it out, and lube it again.

Audio Visual Aids

TF 9-3334 M85 Operation TF 9-3335 M85 Functioning TEC Lesson 020-171-5227-F M85 Cleaning, lubing



to equipment and, at times, to people.

This is a

Bipod

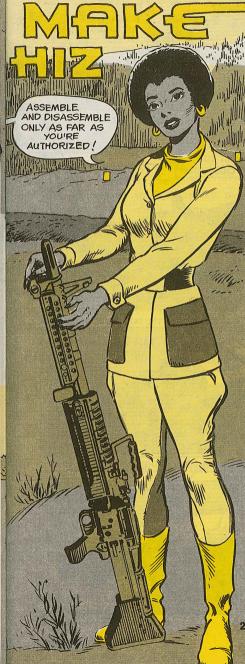
Do not stand the gun on the bipod legs and flash suppressor.

If you do and you disassemble the weapon...especially if you put pressure on the buttstock to remove the yoke...you'll bend the bipod legs.

Bent legs won't extend, and that means a repair job.

When you clean the gun, lay it on its side. If you use the bipod to rest the weapon, then extend the legs and let the buttstock be your "third leg".





Assembly

Never disassemble any further than you're authorized to. When you assemble it, know what you're doing. It's kinda helpful here to use your TM. especially if you're not sure.

M-a-n-v M60's have been assembled wrong, and the problem surfaces with a bang when the weapon is next fired.

One oft-repeated example is the gas piston in the gas cylinder. The piston's grooved end goes into the gas cylinder

If you reverse the gas piston, the first shot is all you'll get. The bolt won't work.

One big point on assembly: If you're not sure, ask your armorer. That way you gain some useful facts and your M60 gets to do its job.

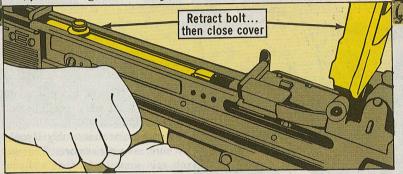


You've gotta learn somehow, and good questions never did put a man down. It could even get you more respect...a lot more than damaging your weapon will get you.





first, you'll damage feed cover parts.



On the other hand, with the cover down you e-a-s-e the bolt forward. That



prevents feed tray damage. If you want to slam something home, try a door. You'll do less damage.

Sight

When you adjust your rear sight elevation scale, use your combo wrench. If you use off-sized screwdrivers or such on the elevation range plate screw, you'll burr it. That means a repair job or working with a lessthan-serviceable sight.

In a pinch, a dime works fine.





get the headspace checked!

It may not seem likely, but new replacements don't automatically match up with older parts. They can batter each other up and they can be a hazard to you. "Headspace." Sink it in yours.

When you clean and lube the barrel, keep the gas cylinder up...or lay the barrel and cylinder flat.



That way you keep lube from seeping into the gas piston and gas ports. That screws up the operation of the gas cylinder and, of course, the weapon.

Another barrel bit: To remove the barrel, first uncock the weapon. That saves sweat and damage. To the pros who say "everybody knows that," experience asks: "How come so many don't do it, then?"

(Aside to armorers: When you send your barrels to support for gauging, send both for each gun. That'll save you



the merry-go-round of barrel or barrels going to support—back to you-back to support, etc.).



Bolt lugs wear, sure. They wear even more when you don't lube them right. Enough for that caution.





If you spot damaged ammunition during firing (bent, kinked, ruptured), stop firing and have support check out vour weapon.

The point of this whole bit is: Cautions, whether spelled out in pubs or just plain common sense, aren't there just to make noise.



Never be tempted to feed in new ammo and continue firing. That could be a hazard to you, your buddies and the gun.

If your weapon jams, follow TM/FM procedures, including a strong pull on the cocking handle. If you have to yank so hard that you fear the cocking handle will bend (as it does sometimes), you don't need more muscle. You need an armorer.

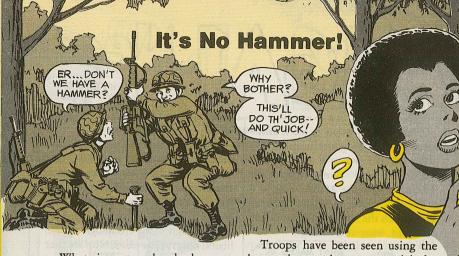


CLP Hotline

YES! WE NEED YOUR HELP. SOONEST, PLEASE!

READ YOU LOUD 'N' CLEAR, SOLDIER!

CLP, the all-purpose lube for weapons, is a hot item which has bogged down the supply system with huge orders. So, make sure you get yours by asking your support to call the CLP "hotline" when you need a big supply. They phone Defense General Supply Center, Richmond, VA, AUTOVON 695-4173, at least a month before placing an order for 1,000 or more gallon, pint or 4-oz size containers. There're plenty 1/2-oz bottles.



sledge-hammer or club?

You got it! The M16A1 rifle stock...or, to get right to the end of it, the buttstock.

What is not a handy hammer, buttstock as a hammer or club for various purposes. The stock cracks, and the rifle is out of business. It shouldn't happen.

If you need a hammer, get one.



ANYTHING CARRYING OF INTEREST CASE NON

NSN 1240-00-769-4281 gets you the M63A1 carrying case for the M16 binoculars.



Weapons MAL

HEY! HERE'S SOME GREAT POOP ON KEEPIN' A GREAT-BUT AR 710-2 TELLS HOW TO KEEP A WEAPONS ROSTER! CHECK IT OUT!

Keep this in mind when you read the weapons roster article on Page 39 of PS 338: Para 2-9f (5)b of AR 710-2 requires armorers to keep a Master Authorization List (MAL), against which soldier Weapons Cards must be matched. The AR has the details.

HERE ARE SOME EXAMPLES.

A lube by any other name is still a lube...so the saying almost goes.

Or, a lube is a lube is a ... etc.

Not so, and some troops are proving it with the M16A1 rifle.

Too much lube, or too little lube, or lubing with the wrong lube just makes problems, wear and damage.



Your rifle needs an "A-1", by-the-TM lube for the best protection and performance.

Overlubing

An old saying, "too much oil can't hurt." won't work on your rifle.

Too much lube traps dirt, carbon and crud, and that stuff in turn slows down and wears parts. Also, handguards and butt stocks need no oil, although some troops give them liberal doses. That just sets up another dirt trap.



Lube the way your TM tells you. Some parts need a lot; some need a little or none at all.

Too Little Lube

One part that needs more than it gets is the forward assist knob where it enters the receiver.



Otherwise, when it has to be removed by a repairman, it sticks...and it's hard to get out.

A drop of oil during routine cleaning is the cure.

Disassemble

Cleaning and lubing lead to other back wrong. That makes big problems. problems, like disassembly of the trigger and housing. Some riflemen tear it down and then lose or put parts



55- 5200

That's not the only case of "unauthorized disassembly." Other parts of the rifle suffer, too, and it all boils down to not having the right tools or training to do the job.

What you're authorized to do is spelled out loud and clear in your TM. If it's not in the TM and you're not authorized, never do it.

Solid Film Lube

Some armorers only half-way clean surfaces before they apply solid, film lubricant (SFL) to the exterior of the rifle. Fact is. SPRICARY SOLID FILM some don't clean the surface at all Mis aver PRODUCTS IN. before applying SFL.

So, instead of doing its job in protecting what's left of the finish. SFL peels off and rust and corrosion do their dirty work.

Your rifle's TM 9-1005-249-20 says to prepare the surface for SFL by thoroughly cleaning it with RBC and armorer could even use a paint kills your weapon.

thinner

Whatever, if you're gonna do an A-1 job with SFL, you've gotta do an A-1 cleaning job first.



SFL fits into the "too much" category, too. Basically, it's a short term refinisher which protects the weapon till it can be permantntly refinished. It's for the exterior parts only. Never apply it to working, cleaning solvent. In a pinch, an interior parts. It gums them up and

This is a selected list of recent pubs of interest to organizational maintenance personnel. This list is compiled from recent AG Distribution Centers Bulletins. For complete details see DA Pam 310-4. DA Pam 310-6 and DA Pam (C) 310-9.

TECHNICAL MANUALS
3-4240-286-20&P Jan Collective protect eapt. AN/TSQ-73

TM 5-3820-244-14&P Nov Rockdrillpaving breaker Boston Pne Mod BP-50 C 2. TM 5-6115-271-14 Dec Gen set, 3-KW. DOD Mod MEP-016A, MEP-021A. MEP-026A

TM 5-6665-293-13&P Nov Detecting set. mine, portable, AN/PRS-7
C. 9. TM 9-1300-251-20 Dec Artillery

TM 9-1410-530-24P Sep Improved HAWK

TM 9-1425-383-10-6 Dec Pershing 1A TM 9-1430-589-24P Oct FAAR TM 9-1430-1528-12-4-3 Sep Improved

TM 9-1430-1535-12-4-1 Oct ICC Improved HAWK

C 3, TM 9-2320-260-20 Nov Truck 5-ton M809-series TM 9-2320-273-20 Nov Truck-tractor

C 3. TM 2350-256-20P Dec M88A1 TM 9-4935-554-24P Sep LCSS TM 9-4940-468-14 Aug Tool outfit, hyd

sys test and repair TM 9-5855-266-24P Nov Test set, thermal

sight TS-3681/VSG-2 TM 9-5855-267-24P Dec Tank thermal sight AN/VSG-2

C 1. TM 9-6920-472-12 Oct TOW M70 TM 10-277 Nov Protective clothing C 4. TM 11-1520-209-20 Oct 80 Electronic eqpt CH-47A, CH-47B, CH-47C C 2, TM 11-5820-670-12 Jan AN/ARC-

TM 11-5820-847-12 Dec MD-1002/G

digital data modem TM 11-5840-281-20P-1 Feb AN/TPN-18A radar set

TM 11-5841-289-20P Jan AN/APN-215 (V) 1 radar TM 11-5855-252-20P Dec AN/TAM-4

bottle cleaning and charging station
TM 11-5895-469-20P Jan AN/TSC-61B flight coord central TM 11-5895-1047-23 Sep AN/TRS-2 (V) 1-6 platoon early warning system

C 1. TM 11-5995-208-10 Oct CX-11230 special purpose cable assembly TM 11-6130-413-24P Nov AN/USM-432

hattery charger-analyzer TM 11-6625-2784-24P Dec TS-3565/TRS-2 test set

TM 11-6625-2976-14&P Jan AN/ARM-186 receiver test set TM 11-6665-245-12 Dec AN/PDR-56F

radiac set C 1, TM 11-7025-202-12 Dec TD-976/G multiplexer and TD-982/G pulse form rectorer

C 2, TM 55-1510-213-23-1 Oct OV-1D/RV-1D

C 3, TM 55-1510-213-23-2 Oct OV-1D/RV-1D C 5. TM 55-1520-209-23-2 Jan CH-47A

M915, M916, M920, M917, M918, M919 C 4. TM 55-1520-221-23-1 Oct AH-1G. AH-10 C 8, TM 55-1520-227-23-2 Jan CH-47B. CH-47C

TM 55-1520-227-CL-2 Jan CH-47C C 14, TM 55-1520-228-23-1 Nov OH-58A,

C 6, TM 55-1520-237-23-2 General info LIH-60A C 6. TM 55-1520-237-23-3 Dec Fault

isolation LIH-60A C 7. TM 55-1520-237-23-5 Nov Airframe.

landing gear UH-60A C 6, TM 55-1520-237-23-6 Nov Powerplant fuel LIH-60A

C 7, TM 55-1520-237-23-7 Nov Power-

C 7, TM 55-1520-237-23-8 Nov Hydraulics, flight controls UH-60A C7, TM 55-1520-237-23-9 Nov Electrical. instruments UH-60A

C 5, TM 55-1520-237-PMS-2 Nov Periodic inspect UH-60A C 1, TM 55-1520-239-23-1 Dec AH-1S

(modernized Cobra)
C 19. TM 55-2840-234-24/2 Dec Engine T55-L-11A, T55-L-11A-SA, T55-L-11D C 21, TM 55-2840-234-24/2 Feb Engine shaft turbine T55-L-11A, T55-L-11A SA,

C 2, TM 55-2840-249-23 Jan Engine T55-1-7, T55-1-7B, T55-1-7C

TM 55-4920-405-13&P Dec Test stand, hyd sys Type D-5C

MISCELLANEOUS LO 5-3805-274-12 Sep Dump truck body

LO 9-1440-531-12 Sep Launcher Improved HAWK LO 9-2320-273-12 Sep Truck-tractor

M915, M916, M920, M917, M918, M919 MCRL-1 Jan Master cross-ref list Part 1 MCRL-2 Jan Master cross-ref list Part 2 ML-A Jan Management data list (ML)

PAM 310-1 Dec Index of admin pubs SC 4610-97-CL-E07 Jun Water purif set

SC 5180-90-CL-N45 Oct TE 49 (fiche) SC 5180-90-CL-N09 Oct Tool kit

carpenter's: Engr plt SC 5420-97-CL-E39 Sep Bridge, Bailey

SC 5420-97-CL-E40 Jun Bridge erection set, fixed, Bailey type

SC 5420-97-CL-E53 May Bridge erection set, fixed, UK

TB 55-46-2 Oct Transport characteristics (dimensions, weight & cube) for mil vehicles & eqpt (NSN sequence) (fiche)

PII-625G D7E Water Pump

pub's wrong.

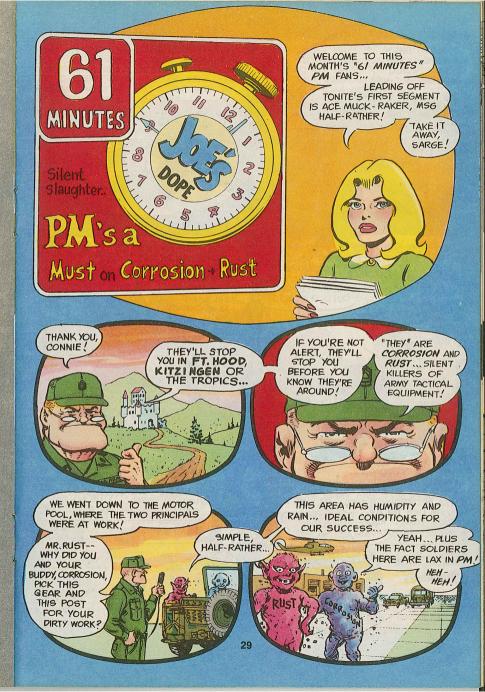
NSN 6110-00-400-7592 gets the distribution Repairing and replacing the water pump on vour D7E Caterpillar tractor is a Direct Support box for the 3-KW generator that powers the trailer-mounted PII-625/G set. iob—like the MAC in the -12 TM says. TM 5-2410-214-20P authorizes the pump, but that

M880 Connector Clip

Get the clips to hold the headlight harness connector and the engine wiring harness connector to the firewall connector with FSCM 86403 PN 3738068. Jot down this number until your TM 9-2320-266-20P is updated.

M880 Wing Nut

Forget the dope in TM 9-2320-266-20P for Item 4, Fig 14. Get the air cleaner wing nut with NSN 5310-00-828-8189.

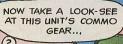




SURE! LOOK HOW BEAUTIFULLY I'VE EATEN THROUGH THIS VEHICLE'S BODY ...

OVER THERE -- CHECK OUT THOSE TRACK PINS I'VE RUSTED SO SOLID THEY CAN'T BE REMOVED ...

NOT TOO OFTEN. HALF-RATHER ... THEY'RE TOO BUSY ... TO BOTHER WITH PM!



WITH A LITTLE HELP FROM OUR PALS FUNGUS AND MOLD, WE REALLY PUT DOWN STUFF IN VANS AND SHELTERS -- LIKE MOLDING AND CIRCUIT CARDS! I 'SPECIALLY

LIKE CONNECTOR CONTACTS -- THEY TASTE LIKE CANDY!

HAVEN'T THESE GRUNTS HEARD OF USIN PENCIL ERASER



VEHICLE SITS IDLE FOR DAYS OR WEEKS, I CAN STICK CLUTCHES. JAM STARTER BUTTONS ... RUST ansignation? BARE METAL BEFORE PRIMER IS ADDED!

DON'T THE SOLDIERS IN THIS OUTFIT CHECK THEIR PUBS? 78 43-02/3 HAS GREAT INFO ON RUSTPROOFING!

5-555H-H! NOT SO LOUD! YA WANTA PUT ME AN' MY PAL CORROSION **OUTTA BUSINESS?**

YEAH, HALF-RATHER, THESE SOLDIERS MIGHT STOP THE CORROSION ON THESE AIRCRAFT HIGH MAGNESIUM COMPONENTS

T WORK FROM WITHIN ... SEEPING THROUGH SEAMS AND POPPING RIVETS ... HEH-HEH /

WHEN A



THAT'S BAD STUFF, MR. CORROSION ... CAREFUL INSPECTIONS. FREQUENT WASHING, TAM PROCEDURES AND PUBS LIKE TH 43-0105 WOULD HELP STOP YOUR ATTACKS!

HEY, QUIET, HALF- RATHER! YOU REPORTERS AREN'T SUPPOSED TO TAKE SIDES!

STORED IN AREAS LIKE THIS WHERE IT'S WET AND HUMID, WEAPONS RUST ALL OVER ... 'SPECIALLY WHEN SOLDIERS FAIL TO CLEAN 'EM OFTEN.

RIGHT. RUST! THE FINISH GETS PAMAGED IN USE, LETTING US GO TO WORK!



DON'T THESE TROOPS RUB LSA/CLP ON THEIR WEAPONS?



YOU WOULDN'T IF OPERATORS REMOVED PRY CELL BATTERIES AFTER USE!

> 555HHHSS1 SOMEONE MAY BE LISTENING !

IN A DOZEN SOAP OPERAS! I HIDE UNDER PAINT BUBBLES ON THE DECK OR HULL, IN COMPARTMENTS AND IN VENT HOLES!

WATERCRAFT HAVE MORE

PROBLEMS THAN THERE ARE

Rust hits all over on watercraft



OUR BUDDY, DRY ROT, CLOBBERS ALL RUBBER WHEN HEAT IS ADDED TO HUMIDITY!

LOOK AT HIS WORK! PRO!

Stretch for dry rot test

Remove **Batteries**

> ARRGH! DON'T THIS UNIT'S TROOPS CHECK FOR DRY ROTZ

> > THE TM TELLS HOW!

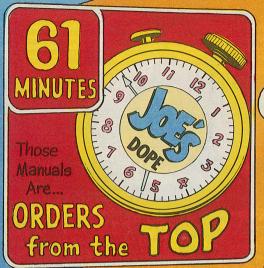
SOLDIERS OUT THERE -- WE'VE SHOWN YOU SOME OF THE PROBLEMS WITH RUST, ROT. CORROSION, FUNGUS AND MOLD! YOUR ARMY HAS A PROGRAM, WHICH IS BEING BEEFED UP TO FIGHT THE PROBLEM! BUT THE SOLUTION LIES IN YOU AND YOUR PM EFFORTS!

TAKE IT AWAY, CONNIE!



30

31



THANK YOU, SERGEANT HALF-RATHER!

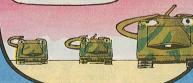
NOW, ON TO OUR NEXT SUBJECT ... ORDERS!...

ORDERS... FROM DIVISION, BRIGADE, BATTALION, COMPANY, PLATOON, SQUAD... ORDERS--THEY MAKE IT ALL WORK!



YOUR UNIT WOULDN'T BE WORTH MUCH WITHOUT DIRECTION FROM TOPSIDE!

EQUIPMENT ALSO DEPENDS
ON ORDERS!
THAT'S RIGHT!
PERMANENT WRITTEN
ORDERS BACK UP
YOUR EQUIPMENT!



YOU KNOW THEM AS
TECHNICAL MANUALS,
FIELD MANUALS,
LUBRICATION ORDERS
TECHNICAL BULLETINS,
SUPPLY CATALOGS,
SUPPLY BULLETINS
OR PAMPHLETS!

THESE PUBS GIVE THE INFORMATION, INSTRUCTIONS AND GUIDANCE YOU NEED TO KEEP YOUR GEAR HEALTHY... THEY'RE -- ORDERS!

MAI

TO BRING YOU THE STORY ON THIS SUBJECT, HERE'S SEC MAKEM SAFER OF THE MAIT OVER AT FT. BRAXTON...

YES, CONNIE... YOU CAN GET COPIES
OF EQUIPMENT ORDERS (MAINTENANCE
PUBS) BY PIN-POINT DISTRIBUTION.



EXACTLY ... HERE'S WHAT YOUR AND... VIEWERS MUST DO TO GET EQUIPMENT PUBLICATIONS AS THEY ARE PRINTED!...



INITIAL DISTRIBUTION



THAT'S WHERE
MOST COMPANY OR
BATTERY PAPER
WORK IS DONE,
LIST THE ITEMS OF
EQUIPMENT YOU
NEED PUBS
FOR!



EVERY SHOP MCO AND
MECHANIC NEEDS A COPY
OF THE -10 TM AND THE
-20 TM FOR EVERY EQUIPMENT ITEM YOUR
COMPANY HAS!



THE PLL

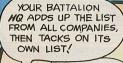
CLERK

NEEDS A

-20P FOR

EACH KIND

OF EQUIP-



ORDER READY,



SOON'S I ADD ON OUR LIST!



USING YOUR OUTFIT'S OA FORM 12 SUBSCRIPTION LIST, PUBS CENTERS AT BALTIMORE AND ST. LOUIS WILL AUTOMATICALLY SEND YOU NEW PUBLICATIONS OR CHANGES AS THEY COME OUT!



BUT WHEN A PUBLICATION IS LOST OR TORN UP, YOU SOLDIERS MUST GO A DIFFERENT ROUTE!



REPLACEMENT PUBS

ST. LOUIS MAILS ... BALTIMORE YOU EQUIPMENT PUBS ... SENDS ADMINIS

SENDS ADMINIS-TRATIVE PUBS AND TRAINING MANUALS!



...YOU WON'T FIND ANY MENTION OF THIS SYSTEM IN YOUR PA PAM 310-10, GUIDE FOR PUBLICATIONS SUPPLY PERSONNEL.



THIS KIND OF REQUEST GOES THROUGH A SPACE-AGE GYRATION CALLED AUTODIN!

YOU GIVE YOUR BN HQ THE LIST OF TM'S, FM'S, OR WHATEVER YOU HAVE TO HAVE...

BUT THIS TIME LIST THE BOOKS, NOT THE END ITEMS!

YOUR BN HQ THEN MAKES UP A PA FORM 4569 REQUESTING REPLACEMENT PUBS FOR THE WHOLE COMMAND!

THEY FOLLOW THE
FINE DETAILS IN
DA PAMPHLET 310-10-2!
THEY GET IT FROM THE
AB PUBS CENTER!

THEN COMES THE SPACEMAN THING...

DA Form 4569

A MACHINE TRANSLATES
THAT DA FORM 4569 FROM
PLAIN ENGLISH INTO
COMPUTER LANGUAGE!

THE PUNCH CARP
THEN IS FED INTO THE
COMPUTER HANDLING YOUR
PUBLICATIONS NEEDS, AND
THE COMPUTER ITSELF MAKES
A PHONE CALL!"

THE CALL GOES TO ONE PLACE: THE AG PUBLICATIONS CENTER, BALTIMORE, MD! RULNBPC 15 THE MESSAGE ROUTE!





The Standard Armi Publications System (STARPUBS):



PRESTO, A SHIPMENT OF PUBLICATIONS COMES IN BY MAIL!

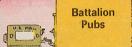
YOUR BATTALION DISTRIBUTES THEM TO YOU AND OTHER UNITS!

IF YOU GET A CHANGE OF EQUIPMENT ...

MANUALS FOR THE EQUIPMENT BY AUTODIN ALSO!

AIR

MOBILITY





ALSO, REMIND YOUR PUBS CLERK TO APP THE NEW EQUIPMENT TO YOUR PINPOINT LIST AND DELETE THE OLD EQUIPMENT THAT WAS



IT'S THE SAME THE WORLD AROUND -- CONUS, PACIFIC, USAREUR, WHEREVER ... DA FORM 12-SERIES FORMS FOR INITIAL ISSUE AND AUTODIN FOR REPLACEMENT COPIES!



YOU'VE MADE A COMPLEX SUBJECT

NEXT MONTH'S 61 MINUTES" PRO-GRAM, WE'LL BE SIGNING O ...

HOLD ONE, CONNIE ... WHY DO YOU CALL THIS SHOW "SIXTY-ONE MINUTES"

WHY, SERGEANT ... SURELY YOU OF ALL PEOPLE KNOW THAT TO ASSURE THE BEST POSSIBLE PM, ONE SHOULD ALWAYS TAKE AN EXTRA MINUTE!



When you hot pilots time a Huey engine start, accuracy counts. Guessing won't hack it!

OK ... NOW READY ... GET SET ... GO!

TM 55-1520-210-10 says you should overheating of the starter. not go beyond the maximum exhaust more than 5 seconds. If you do, a "hot start" can damage internal engine parts.

The 40-second maximum time period for cranking the engine is also important because it prevents

The aircraft clock with its sweep gas temperature shown in Fig 5-1 for second hand; a wrist watch with a second hand: a watch with a continuous digital second reading-all will give you the right time.

Aviation Messages

When Seconds Count...

If your unit has not received these messages, check with your next higher headquarters

CH-47-81-01 SOF, Maint Notice on changes to op procedures for CH-47 with T55-L-11 engines DRSTS-MEA 051330Z

CH-47-81-02 Maint Notice to maint personnel of revision to DA TB 55-1520-241-30-1 inspect and repair rotary wing head protective covers (rainshields) CH-47A, CH-47B and CH-47C DRSTS-MEA 071430Z Jan 81

CH-47-81-03 SOF, Technical, RCS CSGLD-1860, CH-47C one-time inspect T55-L-11ASA engine variable inlet guide vanes TB 55-1520-227-20-22 DRSTS-MEA 131400Z Jan 81 CH-47-81-04 Maint Notice to maint

personnel of CH-47 overhaul and retirement sched changes (CH-47-81-04) DRSTS-MEA 221820Z Jan 81

CH-47-81-05 Maint Notice to CH-47 users of change to MWO 55-1520-241-30-4 DRSTS-MEA 302100Z Jan 81 CH-54-81-01 Maint Notice to maint personnel on CH-54 tail rotor balancing procedures DRSTS-MEA 192000Z Jan

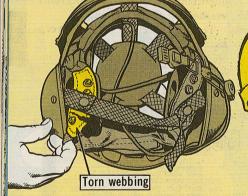
OH-58-81-08 Maint Notice OH-58A let assy bleed valve removal DRSTS-MEA 0909007 Jan 81

OH-58-81-02 Maint Notice on OH-58A and C tail rotor rigging instructions
DRSTS-MEA 221840Z Jan 81 AH-1-81-02 Maint Notice: Info on AH-1 ground handling wheels DRSTS-MEA 031500Z Feb 81



YOUR SPH-4
IS NOT A
STOOL ...

The brain bucket you tote to the flight line is taking a beating, bird types. Support is busy, replacing broken parts and even complete helmets.



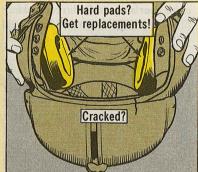
Like—a mike boom was loose. Tightening up on the thumb screw did no good. It was too late to get a tight mike because the attachment screw was never tightened up.

As a result, rotating the adjustment knob merely enlarged the boom attachment hole in the shell. So support had to scrap the helmet.

CRACKS KEEP SUPPORT BUSY--AND COSTS UNCLE MANY BUCKS!

The ear pads leave something to be desired. They harden up in short order because of sweat. The button projection on the pads then digs into your ears and that's mighty uncomfortable...even distracting!

So, when you feel pads NSN 8415-00-143-8577 and find 'em hard, ask for new ones. An improved, non-hardening ear pad is in the works to provide a better cushion.

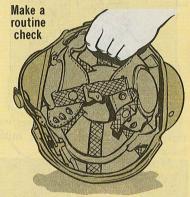


Then there was the case of a cracked helmet, caused when it was used as a seat. Only football helmets can take that kind of treatment.

It's up to You!

It only takes a couple of minutes to pull the before-operation checks spelled out in Table 3-1 of TM 10-8415-206-13 with C4 (Jun 79).

It's a routine matter of checking the condition of the chin strap, retention assembly, ear pads, headband,



beading, liner and shell.

Focus on the mike boom. If you can't tighten the boom with the thumbscrew, get a screwdriver. Tighten the boom attaching screw.



You don't have to turn the helmet in for repair.



Handle With

As a personal issue item, the SPH-4 deserves special handling.



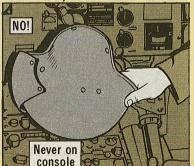
Tote the helmet in its protective carrying bag. Never use the mike boom as a handle.



MAJOR COMMANDERS MAY AUTHORIZE THE USE OF ORANGE AND WHITE REFLECTIVE TAPE ON THE HELMET ...



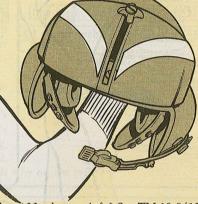
Set the helmet down gently as you enter your aircraft. Radio control face plates and toggle switches break real easy if you come down on a console with a heavy-handed helmet.





AS INDICATED
IN Para 3-21 OF THE
TECH MANUAL!





Take care of your helmet and it'll protect your noggin, as advertised.



Need more info? See TM 10-8415-206-13 on the helmet and TM 11-



headset.

First Aid Kits...



TO KEEP THE RED INK AWAY, PULL COMPLETE PM INSPEC-TIONS ON THOSE LIFE

SAVERS!

Count the number of kits on board. Page 11-10 of CTA 8-100 calls for one kit in the crew compartment and one for every 5 passengers or less. You only need one kit-located between the crew and passenger compartments-on an OH-58.



Turn in unserviceable kits and those due for inspection to your property book officer. The PBO, or the designated representative, is the only one authorized to open the kits, check the contents and replace missing or damaged items. There's an inventory list inside the kit.

On older kits, stencilled FIRST AID KIT AIRPLANE, there's a side pocket compartment. It should contain a packet of ammonia inhalation aromatic solution, NSN 6505-00-106-0875; a packet of providone-iodine solution, NSN 6505-00-914-3593; and

Crew Chief Inspections

'Course, you need serviceable kits. The seal should not be broken. There



should also be a DD Form 1574 (Serviceable Tag) on the kit. If either the seal is broken, or the kit is due a 12month inspection, it's unserviceable.

If the kit's due inspection, pull the tag and replace it with the DD Form 1576, Test/Modification Tag. If it's unserviceable because the seal's broken, or something else is wrong, retag it with the DD Form 1577-2, Unserviceable-Reparable Tag, and tell why on the tag.



Due inspection? Use DD Form 1576

Kit unserviceable? Use DD Form 1577-2

	11		919 -6650 (IT, GENERAL	UNSERVICEABLE (REPARABLE) TAG 1ATTECTION ACTIVITY 13715 TRANS COLDS) 28150, 700 AFFACUL CONDITION SEAL BROKEN
0)	4 100	ERIAL NUMBER LOT NUMBE ONTRACT OR PURCHASE ROLE HO.	EACH	STATE THE THE SPEC - 16 MARS
WALNES	1 2 2			

The PBO's Job

a packet of adhesive bandages, NSN 6510-00-913-7909



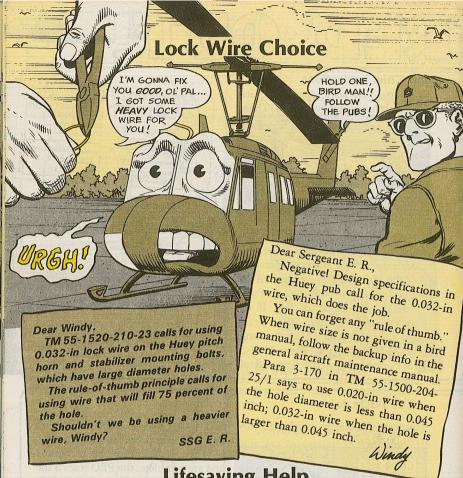
If the kit is stencilled FIRST AID

KIT GENERAL PURPOSE, it won't have the side pocket compartment.

When the kits have been checked and are complete, the PBO reseals the kit using a flat-head pin, NSN 5315-00-989-7631, and a lead seal and copper wire, NSN 5340-00-391-4240.

A new DD Form 1574 is also held by the seal and wire. Staple the tag to the seam of the first aid kit. This keeps the tag from blowing off when the bird flies with doors open.

First aid kits can save lives and reduce suffering. Make sure yours are ready when you need them.

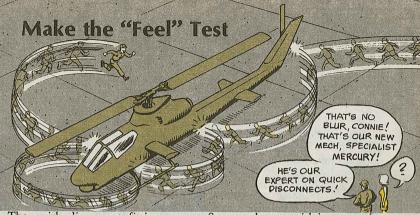


Lifesaving Help

To keep your aviation life support equipment in tip-top shape, check out Training Circular 1-62 (Apr 80). It has the word on maintenance and inspection of your ALSE. Order copies on DA Form 4569 from the AG Publications Center, Baltimore.

No Pint Cans

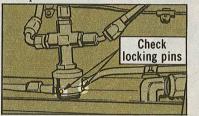
Nope, there're no pint cans of fire resistant hydraulic fluid Mil-H-83282 in the Army supply system. The smaller cans weren't cost efficient. So, when you need to top off the reservoirs in your bird, the quart's the smallest can you can get.



The quick disconnect fittings on aircraft fuel, oil and hydraulic lines are real handy when changing a part. If you don't reconnect the line securely, tho, you'll have problems.

For example, during a Cobra flight, transmission oil temperature indicated 105° C and rising, and the transmission "hot" oil light came on. Postflight inspection showed the line was loose, slowing oil flow to the oil feel for the locking pins sticking out cooler.

So never be too quick in connecting the quick disconnects. Observe and



indicating the line is tight.



Loose Bumpers?

EXPERT ON HELL HOLES AND I ADVISE YOU TO USE C-CLAMPS

hole bumper in place on your Huey? If so, you can get a pint can of adhesive, NSN 8040-00-664-4318 that'll hold it. The instructions packed with the glue tell you how to use it.

Use C-clamps to hold the bumper in place while the glue dries.





Traffic stoppers? How 'bout Redford, Tiegs, Reynolds, Derek and you?

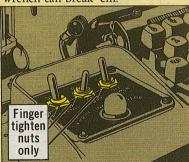
Yep, you. Maybe you don't belong in the above company, but you can stop traffic, too. The type that comes and goes thru your TT-76, TT-98 and TT-4 teletypewriters.

> LIBERAL DOSES OF PM, CAN KEEP THINGS FLOWING SMOOTHLY!



TWIST 'N TURN-Keeping things moving means adjusting and snugging up parts of the set.

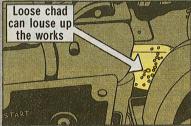
Like the toggle switches on either side of your keyboard. Finger tight only, please. The extra pressure of a wrench can break 'em.



Motor speed adjustment is another "fingers only" job. No pliers are needed. Push the knob in for more speed and pull it out to slow it down.

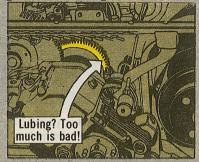
DOWN 'N DIRTY—The first bad as too little. Especially where dirt stopper is dirt. It gets inside your set and grinds gears to a halt. Your first line of defense is a dust cover. Use it.

Keep the chad bin on the job. Empty it when it's full, too. Those little bits can put a big hurt on the moving parts if they get a chance.



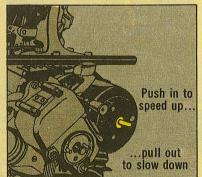
Careful with lubing. Too much is as

'is concerned. Grit stick's to those generous blobs of grease.



Taking a break? Don't use your set for a shelf for sodas, cigarettes or snacks. They'll wind up inside (the set, not you) for sure.

Too much muscle can lock up the governor worm spring and off your set goes to support.



To check motor speed, use the tuning fork that comes (and stays) with the set. Tap the fork on the palm stand still, no adjustment is needed. turn the set in.

If they move left, increase motor speed. Movement to the right calls for slowing down. 'Course, always give the motor a couple of minutes warmup before making your check.

Never let all your good work go down the drain by making some adjustments you're not supposed to.



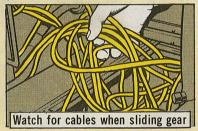
Some folks will do anything to get better traffic. Like mess with selector magnets or bias potentiometer setof your hand and look through it at the tings. These have been preset by white dots on the governor. If they support. If you think they need work,



HARD 'N FAST-To keep traffic That means fasten it down before you travel. Lock down what you canplaten, carriage, key board, blocking plates.

You might get away with just locking down the carriage for a short trip on good road. But a long haul over a tank trail or worse calls for all-out security.

Cords and cables take special care, too. Some are hidden behind and under components. What you don't see can sure get hurt. So take special notice when replacing or removing your TT.

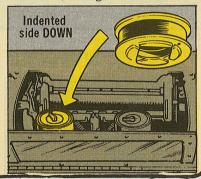


Likewise when sliding your KW-7 secure equipment into its mount. Inthe-way cables get pinched.

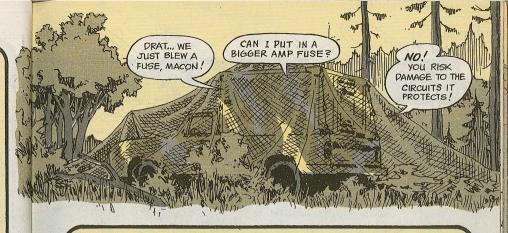
Save your line-feed pawl by pulling moving, go easy on the equipment. paper out from the front only. You'll bend it if you try to remove it from the back of the platen.



When replacing your ribbon, put the indented side down. That's the only way, it feeds properly. Put in backwards, it drags on the roller.





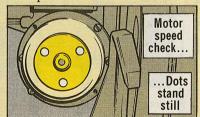


OPEN 'N SHUT-If your teletypewriter is running open or not mounted in an AN/GRC-122, -142 or before you turn it in for repair.

Fuses are always a possibility. Remember, tho, that a blown fuse may be trying to tell you something. If you blow the replacement, too, go ahead and turn the set in.

'Course, if you overfuse you won't have that problem. But, you'll get others—like damage to circuits because the fuse couldn't blow.

If traffic is garbling, there are a couple of checks you should make before turning the teletypewriter in for repair.



The first is motor speed. Dig out your trusty tuning fork and eyeball the white dots again.

Another is the switch box. If you're at all, there are some things to check AN/VSC-3 radio teletypewriter set and using secure gear, the switch goes in red. If not, messages will garble.



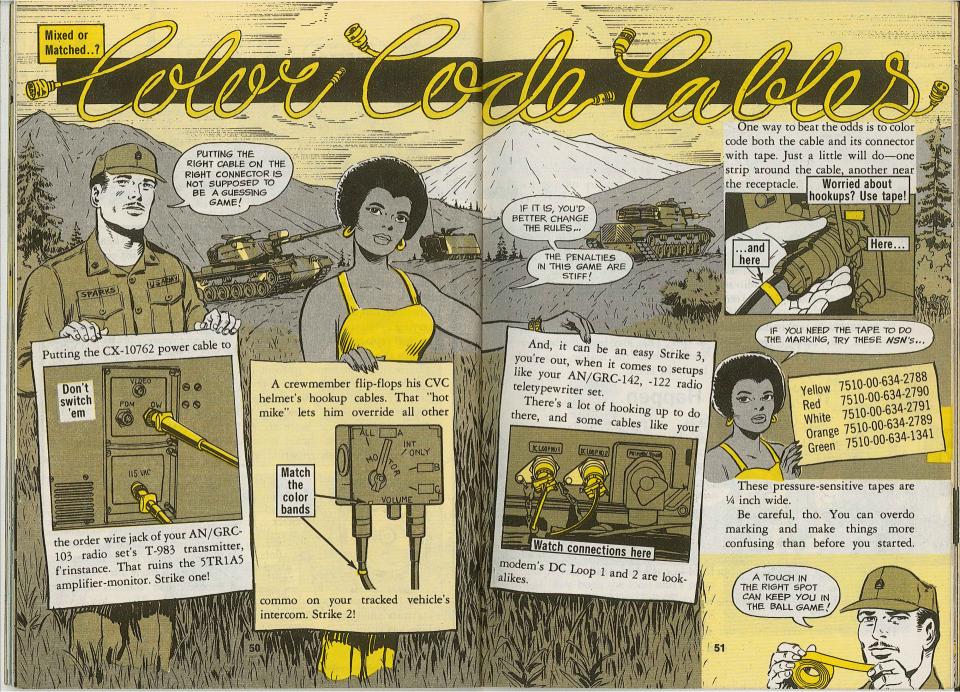
For your AN/VSC-2, see TM 11-5815-331-14 for cabling info.

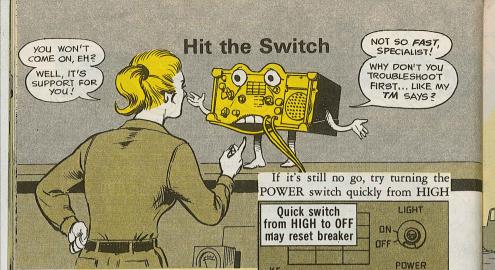
In the AN/VSC-2, if your TT-4C/TG is not working, maybe it's missing something. A-4 in that setup needs a 27K resistor and plate. Without 'em, it acts like it needs maintenance.

On the other hand, it you're using the TT-523 or -524 low-level signal ing device and get increased local copy off-line error rates, tell your support.

The culprit is likely dirty or out-ofadjustment send contacts in your teletypewriter. The low-keying voltage and current won't let the selfcleaning function clean the contacts.







Your AN/VRC-12-series radio set won't come on, so you're going to turn it in?

Wait one. Maybe the circuit breaker is tripped. Go through your TM troubleshooting instructions.

to OFF. That may reset the breaker.

Don't overdo the muscle, tho, and
break the knob.

HIGH-

LOW-

BREAKER-RESET



Ol' Fast Freddie always had the hot hand—on the basketball court, in the poker game, on the rifle range.

The other day, Ol' Freddie used the antenna on his CO's jeep for a leaning post just as a transmission started.

Hot hands? They were burning up!

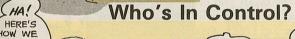


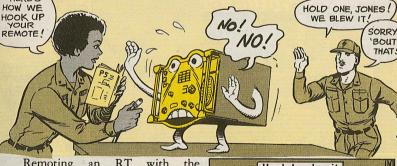


Commander
Sacramento Army Depot
ATTN: Transportation Officer
Sacramento, CA 95801

Mark the package for: Depot Stock Condition Code F.

That's the word in interim change 101 to TM 11-5820-800-12. If you don't have the change, jot the above address down on Page B-3. The work is no longer done in Lexington.





Remoting an RT with the AN/GRA-39 control group is easy enough—unless you believe everything you read on Page 54 of PS 327. You hook the local unit's radio cable to RETRANSMIT R/W as TM 11-5820-477-12 says. You don't hook it to the SPKR connector, as PS did.

REQUIRE

DEPOT LEVEL





Field Kitchen Trailer...

Track and deliller





HERE'S HOW TO GET THE CRANK BACK IN OPERATION!

During the MKT-75 set up-or when pulling the weekly PMCS check in Table 1-4, TM 10-7360-206-13—be sure each leveling jack crank works nice 'n' easy.

If a crank is cranky, chances are the Spirol pin on the crankshaft gear or the one on the lower shaft leg gear is broken.

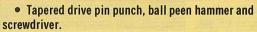


You need:

PN/FSCM

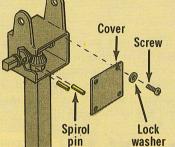
Nomenclature

- 5000-22 (55732) Pin, Spirol, crankshaft gear
- Pin, Spirol, lower shaft leg • 5000-23 (55732)



1. Block up and level the trailer. Remove the bum leveling jack assembly from the trailer chassis and put it on a trailer platform or workbench.

- 2. Remove cover plate from jack.
- 3. Use the tapered punch and ball -peen hammer to knock out the broken pin.
- 4. Insert a new pin ...replace the



Be extra careful to keep the lower shaft leg in the main jack tube assembly when removing/replacing a broken pin. If you let the leg slip out of the tube, the thrust washer and bearing separate... and that brings on another whole new bunch of repair work...by your support unit.

Making sure your 4 leveling jacks work "as advertised" can save you a lot of downtime and dollars.



The right bulb for your Cue See draw too much current and burn out Watch for imposters.

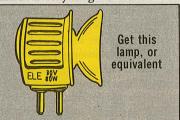


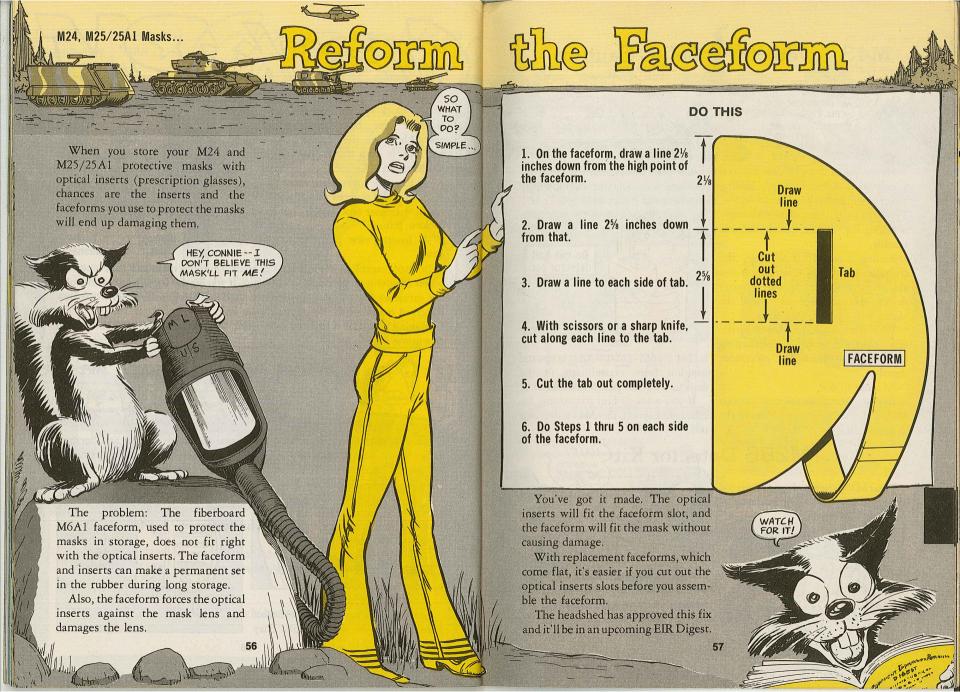
Cue See projector

Some troops try look-alike bulbs. Many are too big for the job. They

projector is NSN 6730-01-081-6555. windings in the motor transformer. That's a \$45 repair job.

You need a 30-volt, 80-watt, Type ELE bulb. Anything more is too much.







Never put a clogged detector cell from your M43 detector unit in boiling reservoir assembly for shutdown or water to soften the hardened solution. shipment like it says on Page 5-1 of C1 Trying to loosen the solution that way is asking for "double, double, toil and trouble."

Boiling water dislodges the crystallized solution OK. But, it can also damage the cell so that it won't detect chemical agents. Then the alarm won't go off. Bad news.

Boiling water also could mess up the cell's electrical system by weakening the glue that holds the electrodes together.

So what to do?

Replace the detector cell in your detector cell.

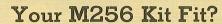
Best bet: Always clear and rinse the



to TM 3-6665-225-12. That keeps the solution from crystallizing in the detector cell and pump assembly.

If you want to boil something, try M43 if the solution crystallizes in the cabbage. Lay off the M43's detector





YER TELLIN' ME OUR M256 HAS TORN, OUT-OF-DATE AND MISSING SAMPLER-DETECTORS.

Your M256 chemical agent detector kit is a lifesaver—but only when it's in A1 shape. Replace the kit if it has any of these problems:

BOY- HAVE WE GOT TROUBLE!

You can put your leftover samplerdetectors with a buddy's to make a complete kit. Remember, tho, that the discard date is the date on the bagnot on the case.

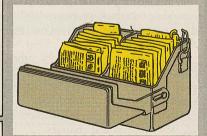


Any of the 3 instruction cards missing or unreadable.

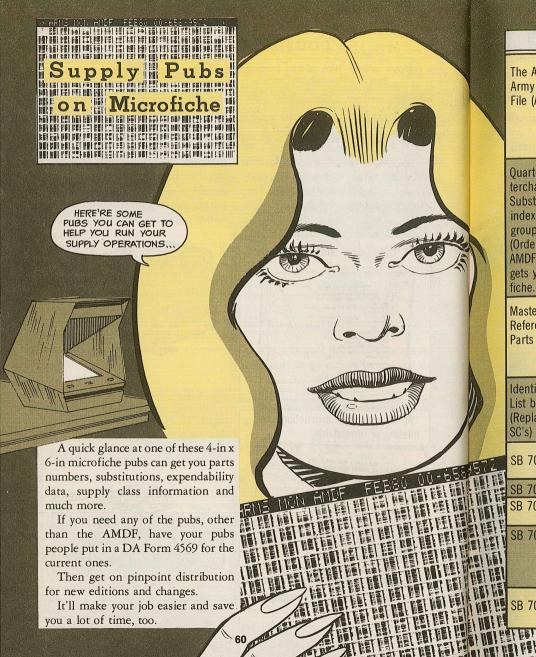


* Fewer than samplerdetectors.

Running low on M8 detector paper? NSN 6665-00-050-8529 gets a booklet of M8 paper to detect liquid nerve and blister agents.



The M256 kit is NSN 6665-01-016-8399.



	FICHE	USE	SOURCE	HOW TO ORDER
	The ARMS Monthly Army Master Data File (AMDF).	expendability and	DARCOM Catalog Data Activity ATTN: DRXCA-BT New Cumberland Army Depot, New Cumber- land, PA 17070	Telephone orders will be accepted
	Quarterly ARMS Interchangeable and Substitute (I&S) index and I & S group files. (Ordering the AMDF automatically gets you the I&S fiche.	I&S index lists interchangeable and substitute items by NSN and MCN. I&S group identifies NSN/MCN groups and gives order of use.;	New Cumberland, PA	See above
	Master Cross- Reference List Parts I, II & III	Part 1 translates PN to NSN. Part II trans- late NIIN to PN. Part III translates FSCM to PN to NSN.		DA Form 12-21
	Identification List by FSC (Replaces some SC's)	Description of items.	St. Louis	DA Form 12-21
	SB 700-20	List of reportable items	St Louis	DA Form 12-34
神学書が	SB 708-3 SB 708-21	Ammo codes Groups & classes of supply	St Louis St Louis	DA Form 12-34 DA Form 12-34
	SB 708-22	Numeric index to supply classes and items covered by each class	St Louis	DA Form 12-34
Ti.	SB 708-23	Alphabetic index to supply classes	St Louis	DA Form 12-34



NMCS/ANMCS Supply Requests

When you get the call to move out, will you be ready? You won't be if your equipment is not mission capable, or you anticipate that it will not be mission capable.

If a badly needed part is your problem, you may be closer than you think to a solution.

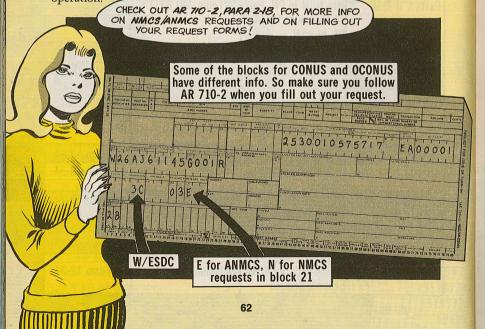
To get the part, send in an NMCS/ANMCS (Not Mission Capable Supply/Anticipated Not Mission Capable Supply) high priority request.

Your request goes the NMCS route whenever an item with a Weapons/Equipment System Designator Code (W/ESDC) is deadlined because of an unserviceable part, component, assembly or subassembly.

Your request goes the ANMCS route whenever a deadline condition is anticipated for an item with a W/ESDC.

You can submit an NMCS/ANMCS request only when the equipment or weapon system is listed in Appendix H of AR 710-2 or Appendix P of AR 725-50. If the two disagree, go with AR 725-50.

That's not your cue to get "request happy," tho. Submit your NMCS/ANMCS request only when it's absolutely necessary. Ask for the exact number of parts you need to put one piece of equipment back in operation.



PLL Set-Up and DA 2064 Goofs



For initial stockage of PLL items that are issued as each but used in sets, the stockage will be in a set—enough to make a one-time repair of one piece of equipment. This is a minimum stockage.

Because of demands during the next 2 review periods, this stockage may be increased but not reduced. Use the stockage table in AR 710-2, Fig 2-28.

After the first 4 review periods, the initial stockage may be reduced based upon demands, or else deleted from the PLL because there were no

demands in the most recent 2 review periods.

Remember, a review period is 90 days for Active Army and 180 days for ARNG and USAR



DA Form 2406 NOR Time

A lot of maintenance allocation charts (MAC) show 24-30 hours as the repair time for equipment, but that doesn't get you off the hook for counting downtime on your DA Form 2406 Materiel Readiness Report. If your equipment isn't operable within 12 hours, report it Not Operationally Ready (NOR) on your 2406. That's the word in TM 38-750, Para 1-4n (2).

New Senior Supply Course



If you're a supply specialist in grades E7, E8 or E9, the Quarter-master School has a new correspondence course you should be interested in.

It's the Senior Supply Sergeant (76Z50) (S21) Nonresident Course. The course consists of 46 subcourses in areas such as maintenance operations, materiel management and staff procedures.

To enroll in the 226-credit hour course, complete DA Form 145 and send it to The Army Institute for Professional Development, US Army Training Support Center, Newport News, VA 23628.

Equipment Improvement Recommendation

B-BUT I OK -- BUT THIS Send in the original copy only of SF 368 YER WUZ WITHIN your SF 368 Equipment Improvement THE SPEED CARRYING IS LIMIT, Recommendation. Write the Report Control Number in Block 3. It's made up of your first and last initials plus the 4-digit Julian date of the day you wrote the report. After the Julian date, add a slash followed by the number of the report for the day. JULIAN UIC From (Originating point) 142d Arty I'M HAULIN' DATE goes YOU IN FER Ft Bliss, TX 79931 SPECIAL Typed Name, Duty Phone and Signature Samuel Jones A/V 912-3465 Samuel Jones



M60 MG Cracks

US Army Armament Command Letter (DRSAR-MAG) dated 29 Dec 80 has the latest word on M60 machine gun receiver cracks and loose rivets. A crack in the weld of the receiver is OK. The movement in any direction in the juncture between the receiver and receiver rails must be less than $^3/_{32}$ -in. No crack can be in receiver base metal. Bridge rivets must be tight. Rear mounting plate weld cracks are OK if plate rivets are tight. Armorers should turn in weapons with loose rivets. General support determines serviceability.

Cold-Patch Tubes

Forget the self-vulcanizing patches listed in TM 9-2610-200-20. The hot patches are being removed from inventory because of short shelf life. To repair your inner tubes, use the cold patches listed in Table 4-9 of the tire manual. The table, tho, shows the wrong NSN for its first item. Get the 4-size chemical patch master kit with NSN 6240-00-052-6724.

Tanker Coupling Gasket

Get the 3-in transfer hose coupling gasket for your M131-series fuel servicing tanker with NSN 5330-00-088-9166. Jot this number down. It's not in TM 9-2330-272-14

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Crane Wiper NSN

Use NSN 2540-00-287-2317 to get the windshield wiper blade for your Model H 446 5-ton crane. Jot it down until your TM's updated.

Check Other Fuse

If your AN/URM-103 signal generator is "on the fritz," and the 4 fuses on the front panel are OK, have a look inside that dude. There's a 50-milli-amp fuse in the righthand corner, behind the low RF output...could be the culprit! Ask for Fuse 5920-00-760-6345.

Fuel Testing Kit

NSN 6680-00-151-5310 gets the petroleum sampling and gaging kit called for in FM 10-series pubs relating to fuel handling and supply operations. It's authorized by MTOE/MTDA. SC 6680-90-CL-N01 microfiche has the component listing.

M880 Non-NSN Items

Your TM 9-2320-266-20P lists a bagful of items without NSN's. Order the non-NSN parts on DD Form 1348-6, using the PN, FSCM and Routing Identifier Code (RIC). The RIC for M880 items with FSCM 19207 is AKZ, while all others get RIC S9C. Check the item's SMR code first, tho. The code tells you if you can order the item. It's explained in Sect I of the -20P manual.

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

