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PS wants your ideas and contributions, and is glad to answer your PS Magazine questions. Name and address are Lexington, KY kept in confidence. Just write to:

MSG Half-Mast

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More Heed to the Need... MEN -- THESE ARE STARSHIP TROOPERS ... HAPPY TO HERE TO STUDY ASSIST.

YOUR PLL METHODS! : GULP!=

A Prescribed Load List based on peacetime demands just won't hack it under combat conditions, right? Right!

Combat has a rather explosive impact on equipment and creates demands not experienced in peacetime.

YES -- WE'RE PREPARING OUR FORCES FOR COMBAT CONDITIONS! ... AND NEED TO UPGRADE OUR PLL SYSTEM!

So, the ideal PLL would be one based on anticipated demands for your gear under combat, right? Right! And that's just what you're going to get under the Army

Standardized Combat PLL and

Combat ASL program. DA Pam

710-3 and DA Pam 710-2-1 have

the scoop.

DA PAMPHLET 710-3 OCTOBER 1981 THE ARMY STANDARDIZED COMBAT PIL AND COMBAT ASI PROGRAM

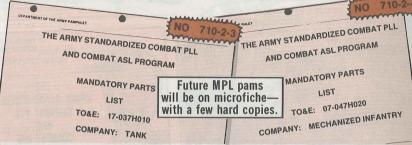
USING UNIT SUPPLY SYSTEM **Manual Procedures** 



Units and TOE's in an armored or mechanized infantry division have or will get the first combat PLL's. You'll find the selected end items in Appendix J of DA Pam 710-2-1, Using Unit Supply System Manual Procedures.

#### **Mandatory Parts Lists**

When it's your unit's turn, you'll get a DA 710-2-series pamphlet. Mandatory Parts List (MPL), based on your TOE. DA Pam 710-2-3 is the MPL for TOE 17-037H010, tank company. DA Pam 710-2-4 applies to mech infantry companies under TOE 07-047H020.....



Inside the pam, you'll find all the gear critical to your unit mission and the essential PLL items for each.

Parts on an MPL are mandatory. You must stock at least the quantity in the MPL.

MPL stockage levels are independent of your demands. You can stock as many more—than the MPL level—as your demands allow. But the MPL number is the least you can have on hand or on order at all times.

#### **Putting It All Together**

So what happens when you get your MPL?

You and your CO compare the end items on the MPL and in Appendix J of DA Pam 710-2-1 with the ones on your unit hand receipt or property book.

If you have an end item that is in Appendix J but not on your MPL, ask for an MPL for it. Para 8-6b (2) of DA Pam 710-2-1 tells you how.

Now pull out your PLL printout or forms. Look at the stockage for each part in the MPL and on your PLL.

For repair parts that apply to 2 or more types of gear, your stockage level is based on the total number of those end items. together—not separately by type.

HERE'RE SOME ANSWERS TO COMMON QUESTIONS ABOUT

• Stockage the same on the MPL and your PLL?

Just change the stockage code to CS (combat stockage) and go to the next item. CS applies only to parts on the MPL or an Essential Repair Parts Stockage List (ERPSL)

INGENIOUS!

 Your stockage less than the MPL's? GOT IT TROOPS? Your stockage level more than the MPL's? CLEVER! • Find an item on the MPL that's not on your PLL? MPL PUSHES YOU OVER 300 LINES SEE PARA 8-86(4)(9) NOTE IN DA PAM 710-

• Find an item on your PLL

MERINA

that's not on the MPL?

Change the stockage code to CS. Order the number you need to bring your stocks up to the MPL level.

I SFF

All normal requests for parts on an MPL go on your unit's Urgency of Need Designator (UND) B priority.

Change the stockage code to CS and leave your stockage level alone. The MPL gives you a minimum level. You can stock as much above that level as you can support by demands.

Order the number that's listed in the MPL. Add it to your PLL with a CS stockage code.

The CS stockage code is now a red flag when you're reviewing your PLL. Always check the MPL before dropping the stockage level for items with that code. You cannot drop below the MPL quantity even if you have no demands to support it.

Those MPL items may not be needed now-or at least not as often as the MPL level showsbut in combat you better believe you'll need 'em!

It stays on your PLL as long as your demands keep it there and the number of items on your PLL is below 300. The stockage code will stay DS.

When you've checked everything on your PLL, make sure all your records and printouts show the new info, too.



Para 3-4, TM 9-1425-429-12, tells you to clean your Stinger weapon-round and field handling trainer "as necessary."

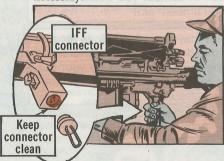
You and operating conditions determine the "necessary."

For instance, if you let dirt build up in the antenna slots of your trainer, the antenna will stick when it slides up



or down. That affects operation.

Another dirt grabber is the IFF cable/gripstock connector. Dirt and grit keep it from mating. So, clean as necessary.



Note: The intent of the forward hinge latch on the gripstock to the launch tube after the two are mated.

So, the idea is not to force the latch into place in order to mate the tube and gripstock. They should mate fully...then be latched.

latch

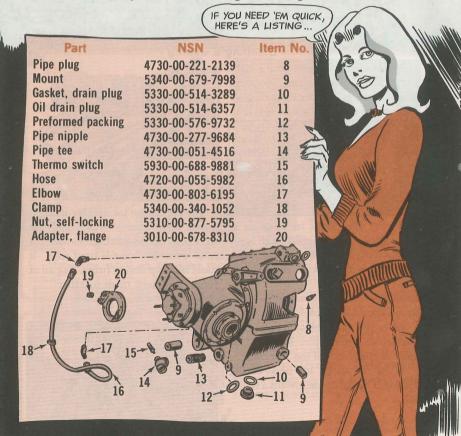
If you have to force the latch closed, you'll probably break it. Instead of force, use eyepower. See what's keeping the gripstock and launch tube from mating...and correct the problem. If the gripstock's broken, turn it in for repair.

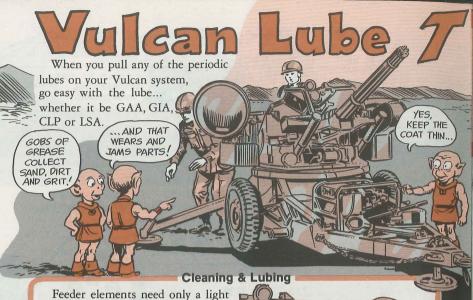


NOPE... NOT WHEN IT COMES TO OUR DIFFERENTIAL MAINTENANCE!

Thirteen parts for the differential of your M730 Chaparral missile carrier have been added to organizational level (PAOZZ) in TM-9-1450-585-20P (Dec 73).

NSN's, PN's, FSCM's and full descriptions are in TB 43-0001-39-8 (Jan 82). All are called out by item number in Fig 81, C2, Page 173 of the -20P.





Feeder elements need only a light film of lube to protect them. Too much lube collects grit, and that makes for malfunctions. Again, follow the LO.



If your unit cleans its weapons in groups, be extra careful with your barrels. Tag them so they won't get mixed up with those of another system.



The big reason for that is round interval maintenance. You could get somebody else's worn barrel instead of your own low-rounds-fired one. It could blow up during firing. Tag all of yours...and keep them together.

#### Timing Pin

After you time the system, eyeball the feeder timing pin. It should be fully disengaged...all the way out.

If the pin sticks, it'll bend during cycling. That, of course, means a repair job.





#### Drum Debris

Keep the area around the drum clear. Debris or stored items have a



bad habit of reaching out and ripping off the last round switch.

#### D-Boxes

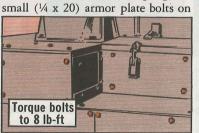
Heavy feet and distribution boxes mix well only when you keep them apart.

If you use D-Boxes as steps or props, you'll damage the inner components. Look for something sturdier to step on.



# M901 IT But th' lo says ona!

The latest word on torquing the armor covers



armor covers of the M901 ITV launcher is 8 lb-ft. Torque to 8 lb-ft, stop, and you'll have fewer sheared or stripped bolts. Forget any other word you have on the bolt torque.

YES -- BUT OHT OR FRH CAN NOW BE USED!

Make a note also that OHT or FRH hydraulic oil can now be used in the M901. The LO calls for OHA, but the newer fluids are OK. Just don't mix one with another.

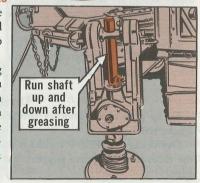
7



Protect cables by securing the connector inside the reel. There's a readymade tiedown. That way the cable doesn't unwind and get damaged by the reel

M514 trailer jacks (those on the IROR and ICWAR, for instance) need an extra step when you lube them...to prevent jamming in use.

First, prepare the trailer for lubing like your TM tells you. Then, after you lube the jacks at the gear boxes, run the jack all the way up and down several times. That spreads the grease over the gear worm shaft and prevents rusting and binding when you later use the jack.



You decide when the floor needs cleaning, since different sites need cleaning less or more often. Then, get your battery's vacuum cleaner and go to work.

Keep floor clean

Check them the way your TM tells you to, but at least twice as often.

#### **Hydraulics**

Operate your hydraulics when your equipment is idle. Do it at least once a week, or more often if you can.



When you open the barrel of your M203 grenade launcher for cleaning, repair or whatever, close it when the job's done.

That keeps out dirt and other crud that fouls up operation.



Another time you've gotta keep it closed is when you're firing the M16A1 rifle section. A closed barrel means you're less likely to clog it when you hit the dirt, fire in prone position and so forth.

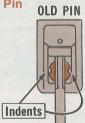
You won't like what happens if you fire the M203 with a clogged barrel. Neither will the M203.

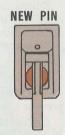
Firing Pin

Old-style firing pins still are being used and still are puncturing primers.

They should be replaced with the new pin, NSN 1010-00-348-8433.

A quick look tells you the difference. The old pin has 2 indents on the sides. The new one is round.





#### **Dry-Firing**

Firing pins create another problem, often repeated. Grenadiers seem to ignore the cure.

Dry-firing the M203 for kicks is bad news for the breech insert. It damages the threads and requires support level repair. The cure again: Do Not Dry-Fire.

#### **Handguard Removal**

MURCHISON SOLVED

HIS HANDGUARD

REMOVAL PROBLEMS.

CONNIE !...

Another memory jogger: When you remove the handguard for cleaning or whatever, get a buddy.

Have your buddy push down on the slipring while you pull up and out on the handguard.



Sometimes you can remove it yourself that way. But, when the slipring gets balky, get a buddy.

Forget about prying the handguard off with a screwdriver or makeshift tool. That'll crack it and probably mean a replacement.



## Need An M60 MG BFA?

MADE A
DEAL WITH
THIS ET
TYPE!

YEAH -- SARGE

SAID Y'NEED

4 HANDS FER

TH' JOB ...



Looking for M13A1 blank firing attachments (BFA's) for your M60 machine guns?



The BFA is authorized as an expendable item in CTA 50-970 (Jan 82), Page II-79. Allowance is 1 BFA for each authorized M60 machine gun.

The BFA and NSN are shown on Page 61, TM 9-1005-224-10 (Mar 81).

## When You're Hot,

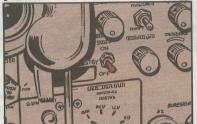
weight in gold.

book every time, all the time. They have to do it right, or they won't be around very long.

Which makes it tough when you hear about all those electrical components damaged during engine starting.

Seems a bunch of thermal imaging systems (TIS) are biting the dust. If

A good tank crew is worth its the TIS switch is in the ON or STANDBY position and the turret Good tankers do their jobs by the power switch is on when the driver



### You're Hot

starts the engine, bye-bye TIS.

It takes 2 people to head off this damage.

The driver must make sure the turret power switch is off before he starts the engine. It's in the book (the -10 TM).

Which means, he has to ask the tank commander if that switch is off.

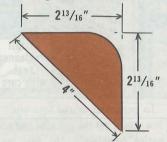
Good tankers always talk to each other and always do things by the book.



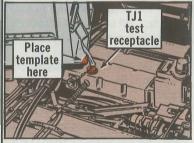
Having a hard time hooking up the STE-M1 test cable to the TI1 test receptacle behind the driver's seat?

Could be you need to cut a corner off the night vision stowage box ledge.

Make a template out of stiff cardboard using these dimensions.



Place it on the box ledge corner near the receptacle and scribe a line.

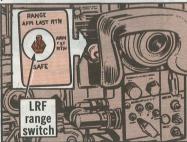


Make sure the protective cap is on the receptacle and then cut along the scribed line with a hacksaw.

Remove any burrs or sharp edges with a flat file and then paint. Use primer, NSN 8010-00-899-0931, and white enamel, NSN 8010-00-515-1596.

## **Laser Firing Hazard**

ed" for an accidental firing if you gunturret power switch is turned off. The ners don't power-down according to laser may fire, and that could be your -10 TM.



Say you leave the LRF range switch in the ARMED position during

The laser rangefinder can be "load- gunner's station power-down, and the dangerous.

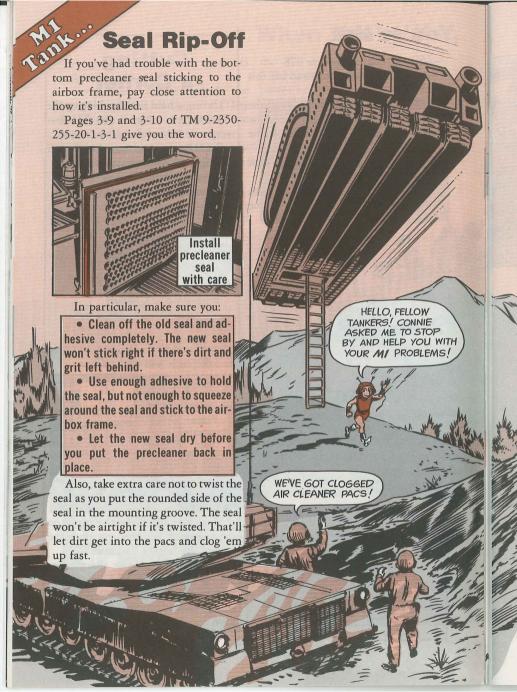
Just remember that during gunner's station power-down, the LRF switch must be set to SAFE before the turret power switch is turned off.



### **Back Issues**

Need any of the last 31/2 years worth of PS to complete your set? They're available. Just write.

> Connie PS Magazine Lexington, KY 40511



## **M240 MG Accessory Storage**

Give a listen, you M1 tank turret mechanics!

Before you turn in your M240 machine guns to support, you've got to remove and keep some accessories. If you leave them on the gun, you won't get 'em back. Reason: The supply system is drained of these accessories.

The word's in TB 43-0001-36-7 (Oct 82).

Before turn-in, remove the loader's mount accessory assembly (Fig 85, TM 9-2350-255-20P-2), PN 12273961; the coax accessory assembly (Fig 7, Item 26, same TM), PN 12274063; and the grips and charger cable guide bracket.

After you remove them, you 45E's need to tag and turn the accessories in to your PLL clerk or armorer depending on how your unit's set up. They stay in locked storage.





NOT T'MENTION AIR CLEANER TROUBLES!

## Air Cleaner 'Do' for the Crew

only the air cleaner maintenance de- broken latches. scribed in your -10 TM.

Seems some crews are removing the precleaners to get to the air cleaner pacs. That's an organizational maintenance job, except in an emergency when the crew can't return to organizational maintenance.

The crew's job stops at removing debris from the precleaner and check-

Take care, M1 crews, that you do ing it for dents, cracks and loose or





Why should you keep an exhaust pipe with flexible joints lined up right?

Simple—it'll leak if it's not lined up right.

Keeping the exhaust pipe lined up doesn't take a lot of work.

Check out Para 2-85c on Page 2-154.3 of C7 to TM 9-2300-257-20.



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

Installation is easier if you line up the exhaust pipe guides first.

All of this will help keep carbon monoxide where it belongs—in the pipe and not in the carrier.

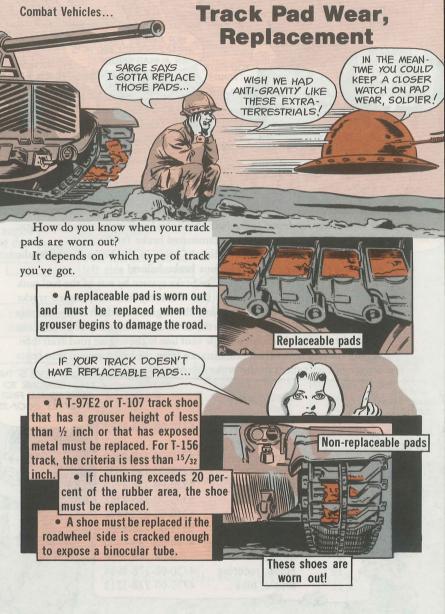
Remember, too, that engine access panel seals must be in good condition to help keep carbon monoxide out of the crew compartment.

Check 'em regularly and replace 'em when needed.

## **Longer Woodruff Key Needed**

Fastening the groove pulley to the fan tower shaft on your M113A2-series vehicle? Use a longer woodruff key, NSN 5315-00-682-1811, and save yourself some damage. It'll help keep the pulley from spinning loose and ruining the bearing housing. For best results, torgue the pulley bolt to 25-30 lb-ft after installing the longer key.

16





This contamination leads to swelling of seals in the brake air/hydraulic cylinder—and that may result in serious brake failure!

Vapors from the fuel tank get into the brake system by way of the fuel tank vent line and the brake system vent line. On early multifuel engine trucks (M44A1-series), they vent separately into the engine road draft tube—but this is too close together. It's even worse on the M44A2-series trucks. The vent lines join under the truck and become a single vent line to the engine road draft tube.

Keeping the fuel tank vent a safe distance from the brake system vent beats the danger of fuel vapors in the brake system.

FOR THE Key Description NSN M44 A2-SERIES YOU NEED THESE Tubing, copper 4710-00-203-3172 MATERIALS (72 inches) Adapter 4730-00-336-9558 Bushing 4730-00-196-0930 Breather 4820-00-726-4719 MILLIAN Screw 5305-00-145-8368 5340-00-833-8476 Clamp Strap, tiedown 5975-00-133-8687 Adapter 4730-00-289-1930 4730-00-289-1254 Adapter Elbow, reducing 4730-00-278-4694 4730-00-278-3213 Nipple, tube

... AND HERE'S THE FIX ... SIMILAR TO WHAT YOU'LL FIND IN 78-43-0001-39-4 (Jan 83)...

#### cylinder Fuel tank BRAKE FLUID → Front vent line Rear COMING FROM THE Vent line BREATHER MEANS Brake system vent line THERE'S A BAD SEAL to engine IN THE AIR / HYDRAULIC road draft CYLINDER tube Vent line junction on left side of frame rail To engine road draft tube This line stays connected to the engine road draft tube to vent the fuel tank Procedure: Disconnect 3 vent lines from "T" junction on left side of frame rail. Discard all fittings

From master cylinder

- except the one on the fuel tank vent line.
- Connect the fuel tank vent line to the vent-line-to-engine-road-draft-tube, using adapter 8, elbow 10 and adapter 9.
- Cut 2 inches from brake system vent line.

M44A2-Series (M35A2 etc.)

From air

hydraulic

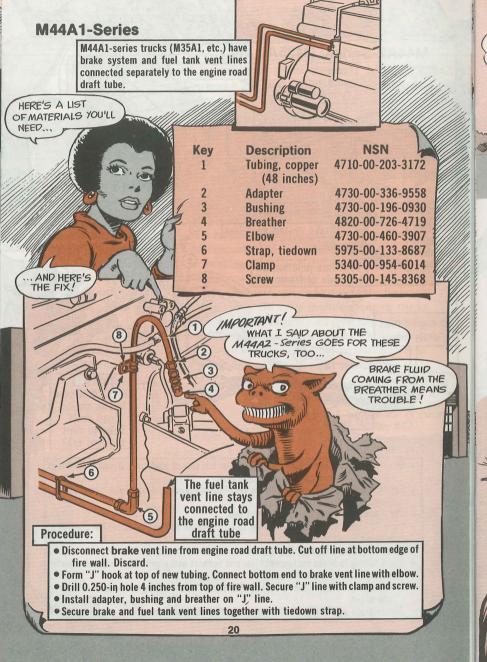
From

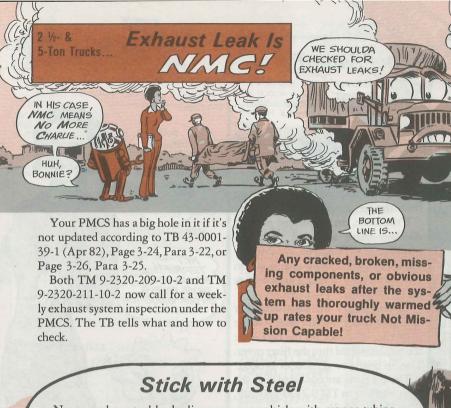
- Form "J" hook at end of new tubing to go in engine compartment. Install adapter 2. bushing 3 and breather 4.
- Make 90° bend in tubing 36 inches from top of "J" hook.
- Route tubing to brake system vent line and connect with nipple 11. If needed, shorten tubing to make connection.
- Drill 0.250-in hole 4 inches from top of fire wall. Secure tubing to fire wall with clamp
- Secure brake and fuel tank vent lines together with tiedown strap.

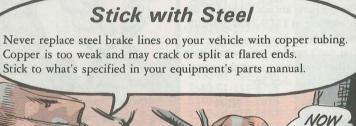
To engine

road draft

tube







WE:

YOU TELL

21

-M809-Series-

## Fuel Filter Parts



Some M809-series 5-ton trucks are running around with parts missing from the fuel filter.

F'rinstance, the preformed packing (O-ring) that's supposed to be replaced every time you remove/replace the filter element—like it says in TM 9-2320-260-20-3-1, Pages 4-80 & 4-81.

Or maybe it's the square washer that goes under the bolt head. Or the snap ring that goes on the bolt after the bolt's inserted thru the filter cover. They're bound to get lost or broken.

These 3 parts are not listed with the filter element in TM 9-2320-260-20P, Page 48, Fig 03-21.

You don't need to get a whole new fuel filter assembly to get those simple parts. Here they are:

Item NSN Washer (square) - 5310-00-420-8044 0-ring 5330-00-248-3174 Snap ring - 5365-01-108-9251

Missing fender access panels on your 5-ton truck can make the engine overheat!







## Access Panel NSN's

UPPATED LIST OF THE ACCESS PANELS IN THE FRONT FENDERS OF M39-Series AND 809 - Series TRUCKS ...



#### M39-Series, Multifuel/Diesel

Panel, lower front, right side Panel, upper rear, right side Panel, rear complete, right side Panel, fender, right side Panel, fender rear assembly, left side Panel, left front splash Plate louver assembly, left side

#### M39-Series Gasoline

Panel, rear splash, right side Panel, splash, right side Panel, fender, right rear Panel, fender, left rear Panel, splash, left front

#### M809-Series

Panel, front end, right fender Panel, upper, right side Panel, louver, right side with studs Panel, left, front splash Plate, louver assembly, left side Panel, Front louver, left side Louver, panel, fender, left side without studs

Louver, panel, complete, right side YOU MAY ALSO



#### NSN

2510-00-420-5050 2540-01-119-8709 2510-00-104-4501 2510-01-128-4418 2510-00-880-4655 2510-00-880-4657 2510-00-107-4237

> 2540-01-117-7948 2540-01-117-7945 2540-01-117-7956 2510-00-177-7799 2510-01-128-4419



5340-01-075-2625 2510-01-128-4772 2510-01-125-0529

Turn-lock stud NSN 5325-00-290-8240 Stud receptacle 5325-00-637-2369 Turn-lock eyelet 5325-00-449-2797 Receptacle rivet 5320-00-994-7075

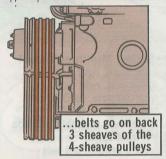
## Series Belts for 100- & 180-Amp Systems



The NSN's OK—it's the picture that throws you.

Pay no mind to the 4-belt set shown in Fig 131, TM 9-2320-218-20P, for the 100-amp alternator on some M151-series ¼-tonners. NSN 3030-00-832-5671, Page 281, is right. This 3-belt set is used on the 60-amp, 100-amp and 180-amp systems.

As explained in TB 43-0001-39-4 (Jan 80), Para 2-11d,...

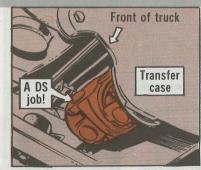


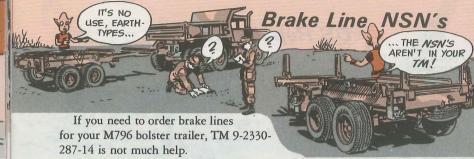


The maintenance allocation chart in TM 9-2320-266-20 goofs on U-joints. It shows all U-joints are organization-level.

That's wrong. The constant velocity U-joints in the front prop shaft are DS-level repair.

That's why the repair parts are listed in the -34P. The repair procedure is covered in Para 6-7 of the -34 TM.





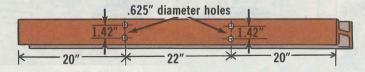
The brake lines, along with the flexible hose that runs from the axle to the frame, are shown in Fig 36 of the TM but not listed.

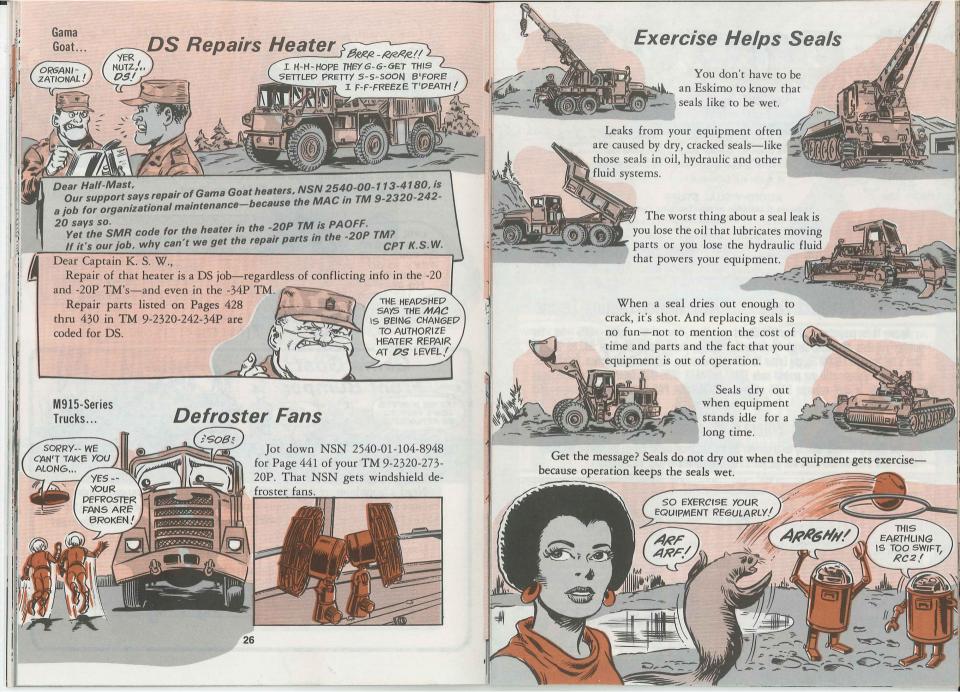




Need a front bumper for your M561/792 Gama Goat? You can't order one because there're none in the supply system. But you can make one from a 62-in piece of structural steel I-beam, NSN 9520-00-277-4457. It'll take awhile to get this.

Use the bumper on another Goat as your pattern, or use this drawing.







This is a selected list of recent pubs of interest to organizational maintenance personnel. This list was made from a computer printout provided by The Adjutant General.

**EIR Digests** 

TB 43-0001-17-3 Chaparral air defense quided missile system

**TEC Lessons** 

030-051-6440-F Assault Boat

method

TB 43-0001-23-2 Pershing 1A field ar- ment tillery missile system

titank/assault weapon system TB 43-0001-32-3 Calibration standards TR 43-0001-39-3 Tank automotive equip-

TB 43-0001-41-3 Construction equip-

TB 43-0001-30-3 Dragon medium an- TM 9-2590-209-14&P Jan Bulldozer, M9 TM 9-4935-1541-24P Jan Shop equip-ment, guided missile system, AN/TSM-

TM 11-6625-291-14 Jan Output meters. TS-585A/U, TS-585B/U, TS-585C/U and TS-585D/U

#### **AUDIO-VISUAL STUFF**

Available at battalion or post Learning Center

Films, TV Tapes Operation Part II 030-051-6461-F Assemble TVT 6-111 Howitzer backlay Medium Girder Bridge: Part II 030-051-6560-F Slaving an TF (VT) 7-6230 How to Fight inoperable AVI B 102-113-5509-A Test operate

AN/APN-200 202-113-5160-A Cabling radio repeater op

202-113-5175-A Troubleshooting radio terminal 222-011-6233-F Assemble AN/TSQ-70A 222-011-6234-F Install cables, IFF antenna and nower unit 222-011-6237-F Round

231-906-4100-A Constructing double-doublet antenna 412-061-9014-A Transfer pads OH-58 610-091-6163-F M578 PMCS 580-113-6983-A (FOUO) 953-071-0278-A Zero AN/PVS-2 on M16A1

Be sure to use project code XFK on CONUS part number requests for M880-series truck parts. That's the word in TACOM Supply Letter No. 20-82. OCONUS requests still use project code JZO. Put the code in card columns 57-59 of your request form.

## M880 Project Code M67 Heater Caution Decals

Your source of supply—SOS—for the caution decal listed on Page 58, PS 359 is: Commander, Defense Construction Supply Center, ATTN: DCSC-OSR, Columbus, OH 43215 using FSCM 93084, PN 5-13-2685-5-29. Minimum order

## Where's My Cap?

You M60A3 tankers looking for a number for the electrical outlet cap on the searchlight receptacle? NSN 5935-00-998-5598 will get you a 2-in inner diameter cap with chain.

## MESSAGES

SMART! Msg #13-Change to AR 700-120. HQDA DALO-PLO 231243Z Aug 82. SMART! Msg #14-TAMMS and PLL certification Program. HQDA DALO-PLO 101245Z Sep 82 (Info Exchange). SMART! Msg #15-AOAP Milk-Run Service between motor pool and lab. HQDA DALO-PLO 041651Z Oct 82 (Info Exchange)

SMART! Msg #16-Free Turn-In Points/No Questions Asked Days. HQDA

SMART! Msg #17-Using Supply Advice Code 2A. HQDA DALO-PLO 191206Z Oct 82 (Info Exchange).

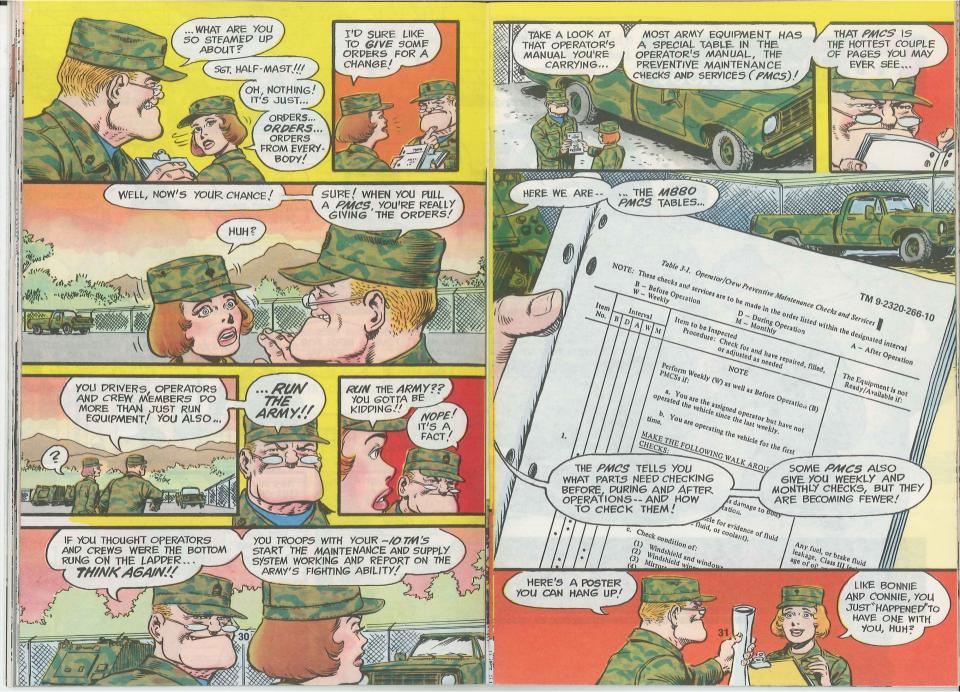
SMARTI Msg #18—Interim Change 3 to TM 38-750. HQDA DALO-PLO 251416Z SMART! Msg #19-Binders for Hand

Receipt Holders, HQDA DALO-PLO 041326Z Nov 82 (Info Exchange). SMART! Msg #20—Change to CDA Pam

SMART! Msg #21—Automating Installation TDA Property Books. HQDA DALO-PLO 122123Z Nov 82 (Info Exchange). SMART! Msg #22—Use of Supply Status Listings Instead of Status Cards. HQDA DALO-PLO 021436Z Dec 82 (Info Ex-

SMART! Msg #23-Implementing Modular Training Program Techniques (TAMMS, PLL, etc.). HQDA DALO-PLO 301557Z Dec 82 (Info Exchange).



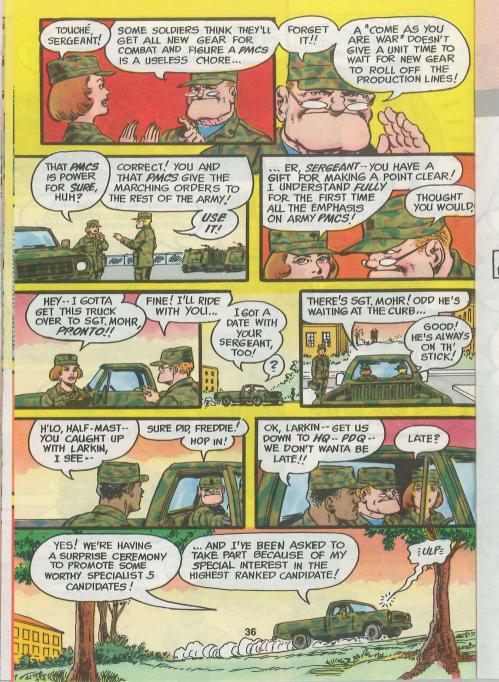




WE HAVE THE WORLD'S BEST EQUIPMENT ... Take care of it

IF YOU WANT TO DISPLAY THIS CENTERPIECE ON YOUR BULLETIN BOARD, OPEN STAPLES, LIFT IT OUT AND PIN IT U







ZOUNDS, EARTHMAN! PON'T YOU KNOW HOW TO PROTECT A JUNCTION BOX FROM MOISTURE?

ER ... WITH AN UMBRELLA?

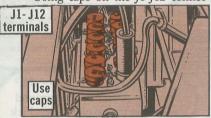
## Keep Your Caps On!

Give it a chance and corrosion will eat up the inside of your M880-series truck's power junction box.

Once moisture gets inside and does its corroding worst, your box is off to support for repair.

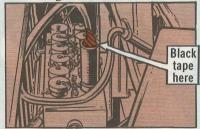
You can head off much of this damage just by keeping things covered.

Using caps on the J1-J12 connec-



tors when no cable is hooked up, f'rinstance. This also heads off dust and dirt damage to connectors.

Water gets in even when a cable's hooked up, tho. It slides down the cable, gets into the Bendix connector and then goes inside the box.



You can stop it with black electrical tape. Start an inch or so up the cable

and wrap toward the connector. Wrap over the connector and you'll keep corrosion from KO'ing your commo.

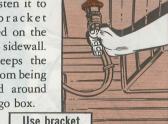
Another corrosion stopper is to replace the cap on the junction box



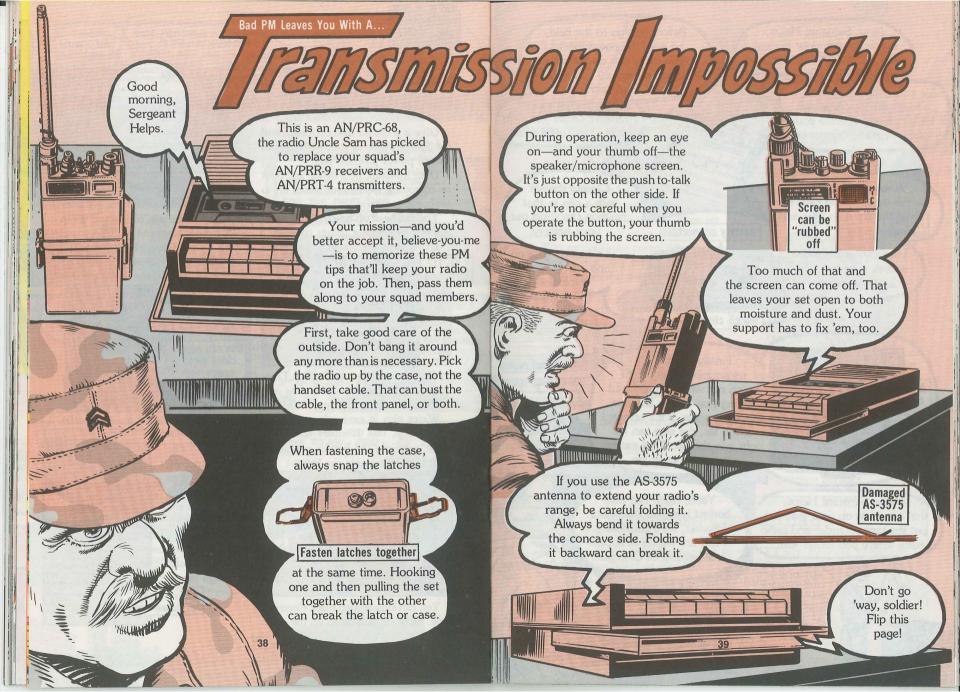
power cable receptacle when the

cable's not in use.

Protect the cable connector, too. Fasten it to the bracket mounted on the truck's sidewall. That keeps the cable from being knocked around the cargo box.



Use bracket for power cable



Now, Sergeant Helps, inside the set, your biggest worry is the BA-1588 battery.

be sure the power packs vou carry can do the job. You can expect up to 24 hours of life from each one.

Before you go to the field,

Be sure it has the strength to do the job. A weak battery won't operate your squelch circuit, f'rinstance.

Need batteries for your set? Order 'em with NSN 6135-01-094-6536.

When working inside, watch those spring clips that hold the shorting plug and alinement tool.

Closing the set with a clip in that position can short out your battery.

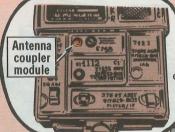
They can swing loose and sit right over the battery connectors.

This starts gassing and can lead to an explosion.

Marie 100

Watch clips

**Battery connectors** 



Finally, warn your organizational repair to watch out when adjusting L1 tuning slug on the antenna coupler module. If it's screwed in too far, the slug can fall right into the set. That means a support repair job.

Okay, Sergeant Helps, that's it. Now on your way out, put the tape recorder and radio back where you found 'em....

Yeah, right. But their budget is bigger than ours. However, we'll consider it if YOU are willing to accept a Statement of Charges!!

BUT DOESN'T EVERYTHING SELF-PESTRUCT?

ALWAYS DOES ON TVI

Antenna Survival

A lot of heavy-handed treatment is whip. causing a rash of cracked whip antennas. The breaks will usually show up just above the half-wave loading coil.

You protect your antenna a couple of ways. First, any time you remove the whip, grab it at the base. Twisting

Hold here when turning

any higher on the shaft can cause dam-

smaller AN/URC-10 radio set. That 12 has the wrong number.

A dead AN/PRC-90 radio set can't smaller pocket puts the pinch on a bigbring you back alive-simple as that. ger PRC-90, especially the folding

WHY YOUR FELLOW SOLPIER NEVER CAME BACK!



Your support switches pockets for you. Tell 'em to order the bigger one with NSN 8415-00-442-3616.

Inspect the antenna frequently and replace it when necessary. Be sure the antenna sealing washer is on hand. If Second, some SRU-21 survival you need one, order it with NSN 5330vests still have the pocket for the 00-928-7079. C4 to TM 11-5820-800-

## Size-Wise Camouflage

We were caught thinking too big in our "Pattern Painting Particulars" article on Pages 50-51 of PS 357.

As a rough rule of thumb, items smaller than 4 cubic feet, not 4 feet x 4 feet x 4 feet, need no camouflage.

There'll be exceptions, of course, and then common sense—and your CO's decision-will apply.

#### Choosing Lubes..?

When it comes to picking the right grease for commo lubrication, the choice is easy.

Silicone grease, NSN 6850-00-880-7616, is the one. It lubes, preserves and, contrary to popular opinion, does not insulate.

Unless you lay it on too thick, of course. Just a little dab'll do it.

So, you can use it to smooth commo accessory hookup by lubing an O-ring. Or, for waterproofing gaskets and preformed packings.



You can also use it on antenna threads and between mast sections to make disassembly easier. Left ungreased, those sections "freeze" together.



You can use it on cables to head off dry rot. A light coat every now and then keeps the rubber insulation flexible.



'Course, you need no grease between the bottom of your AS-1729 antenna and its matching unit. The



grease could short out the button contact. Besides, you remove the antenna so often, chances of a freeze are slim.

Watch out for that non-seizing compound in your AN/VRC-12 series radio set pubs. Graphite grease, NSN 9150-00-190-0918, is corrosive. The commo top shop says don't use it. They'll drop it from the pubs first chance they get. In the meantime, never daub it on antenna threads.



Other greases are commo killers, too. You can spot some with your nose. F'rinstance, if it smells like oil, keep it away from commo gear. It's a lube for moving parts, like engines and bearings.

Same goes for any black grease. Some say use it when you need a con-

ductor-type lube. Forget it. It's a lube for ball-bearings and such.

Silicone is a milky-white grease, with no smell at all.



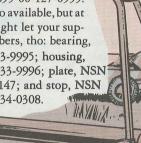
## **RL-39 Repair Parts**

Your RL-39 reel is repairable again. You can now get a handle assembly with NSN 3895-01-135-2538. That

brings you everything but the crank. The crank is NSN 3895-00-127-0999.

Other parts are also available, but at the DS level. You might let your support in on the numbers, tho: bearing,

NSN 3895-01-133-9995; housing, NSN 3895-01-133-9996; plate, NSN 3895-01-134-7147; and stop, NSN 3895-01-134-0308.



X-Mode Check WE'LL HAVE TO EARS! LISTEN FOR A RUSHING SOUND

Need to know if your AN/VRC-12-series receiver-transmitters are ready to operate in secure circuits?

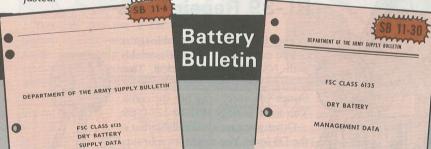
Your eyes and ears can tell you in a heartbeat.

Switch on your RT. Turn the light switch ON and squelch to OLD ON. Remove the X-mode cap. If the call lamp lights, you're in business.

No light could mean a bad lamp, tho. So, listen up. Turn the RT off. Replace the X-mode cap. Set squelch to NEW OFF, and turn the RT on. You should hear a rushing sound.

Remove the cap and the rushing should stop. If it does, you're in Xmode. If it doesn't, have your set adjusted.





Everything you always wanted to know about dry-cell batteries but didn't know who to ask. That's what you find in SB's 11-6 and 11-30.

The -6 pub has one list showing which batteries go in what equipment. Another list has the opposite. Finally, the SB matches battery nomenclature and NSN.

SB 11-30 gives info on storing, ordering and shelf-life. It also has a rundown of dry-cell technical characteristics.

Your pubs clerk can order them for you.

#### Off the Canvas



MAYBE OK FOR HIM ... BUT IT'S KO FOR ME





Canvas covers carry the KO punch to your radios.

Way back when, the top shop OK'd the CW-653 and -649 canvas covers to protect your vehicle-mounted FM radios.

Now they're a no-no. The heavy material keeps out the cooling air the sets need to stay on the job.

If you've still got some, leave 'em off. If you don't have 'em, don't ask for any. They're being dropped from the system, anyway.



SURE YOU CAN GET ME ONE!

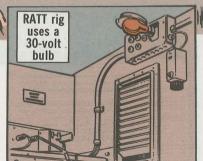
## AN/GRC-122, -142 Light Bulb

YOU CAN ORDER ONE FOR ANY RAT



The AMDF used to code that 30volt bulb NSN for use by overseas customers only. No more. Everybody can get it now. Order it with NSN 6240-00-155-8651.

erator's pub.





Aviation Messages

Cat 1 EIR Phone:
AUTOVON 693-2066
(24 hours)

sleeve bearings 101435Z Nov 82
UH-1-82-07 One-time inspect collective

In which you have an interest, check with your next higher headquarters.

UH-60A-82-28 Establish inspect intervals for engine output shaft 0413167 Nov.

UH-60A-82-21 One-time inspect drag bean/axle assy 101440Z Nov 82 AH-1-82-13 One-time inspect collective Steve bearing 1014352 Nov 82
CH-47-82-15 Night Op Restriction CH-47C 011700Z Nov 82
CH-54-82-04 One-time Inspect tail rotor pitch link rod ends 022100Z Nov 82
CH-54-82-05 One-time Inspect rotor brake disc 152108Z Nov 82 **Check Altimeters Installed** 

SORRY -- IT APPLIES ONLY TO OUR BIRD

The word in TSARCOM Msg DRSTS-MEA 212015Z Sep 82 is that the requirement to remove aircraft altimeters for inspection and test every 24 months is deleted from AH-1, UH-1, OH-6, CH-47, CH-54, OH-

So, you no longer have to pull the

58 and UH-60A aircraft.

Altimeter can be checked without removing it



instrument out of the aircraft for a test by support.

Not only do you head off a timeconsuming search of the supply system for a replacement, you also save a lot of maintenance time and elbow grease. On the Cobra, for example, it takes about 3 hours of maintenance time to jockey those altimeters in and out of the Snake...quite a savings!

A functional check of the pitot static system and instruments (including the altimeter) is required, tho, per the special inspection section of each aircraft maintenance manual.

The check of installed instruments applies only to rotary-wing aircraft—not fixed-wing.



To Fight FOD...

## **Maintain the Perimeter!**



If you think you're maintaining your aircraft from a clean landing pad, dad, make this check:



Walk around the perimeter of the pad. You'll soon pick up a handful of shell casings, cans, nuts, bolts and other debris.

If an arriving chopper scattered that stuff into open birds undergoing maintenance, foreign object damage (FOD) would result for sure!

Fight FOD! Do a pad walkaround, regularly.





Wherever you plant your brogans during a Huey pre-flight, one place you pilots want to avoid is the upper air filter.

The rivets are on the engine side of the filter and can end up in the engine inlet.





Then, when the engine is cranked up, it swallows the rivets. That'll cause foreign object damage.

So watch your step, OK?

OK -- I REPLACED THE LINEAR REACTOR -- . DO WE MAKE A TEST FLIGHT NOW?





BEATS ME!

Dear Windy,

I just replaced the engine linear actuator on our UH-1H.

I just replaced the engine linear actuator on our UH-1H.

TM 55-1500-328-25, Para 3-2c (4), says a test flight is required when flight control surfaces are replaced. We have a big dispute going about whether a test control surfaces are replaced. We have a big dispute going about whether a test control surfaces are replaced. We have a big dispute going about whether a test control surfaces are replaced. Windy?

flight is required. What say you, Windy?

Dear Sergeant D.F.,

The linear actuator is not a primary flight control item, so no test flight is required.

A Maintenance Operational Check (MOC) is needed, tho, according to Para 3-6 of that TM. Make the check according to the info in Para 4-122 of TM 55-1520-210-23.



Part Upto-Snuff STARFLEET DEPOT DIDN'T SEND BACK A 2408-5...

DO WE
RE-INSPECT
THE GYROPLATES?

Dear Windy,

We made a one-time inspection of the outer ring on UH-1 swashplate assemblies some time ago and recorded it on the component DA Form 2408-5. Now, when we receive a swashplate back from overhaul, the DA Form 2408-

Now, when we receive a swashplate back from overhaul, the DA Form 24 5 is no longer included:

We have quite a discussion going in our TI shop, Windy. Do we have to re-inspect and make up another form?

SSG R. L. S.

Dear Sergeant R. L. S.,

No, a new form is not needed.

Special inspections, and other current directives affecting the component, are incorporated into the depot maintenance work requirements.

The head hangar (TSARCOM) has a quality control section at Corpus Christi Army Depot to make sure that all aircraft components are up-to-date.

Windy

DUNNO!

WINDY!

### **Shim for Clearance**

When installing your Huey's droop compensator, make sure you maintain a 0.001 to 0.003-in clearance between the bellcrank and the shear fitting, as called for in Para 4-132f of TM 55-1520-210-23. A maximum of 2 shims, NSN 5365-00-708-2255, are placed between the bellcrank and the retaining washer.

**Another Phase** 

DID YOU PULL A PM CHECK AT 100 HOURS?

NOPE! THE NEW PM MANUAL SAYS THE CHECKS ARE CHANGED TO 200 HOURS!

Phase Maintenance checks have been changed from 100 to 150 hours for the UH-1H/V and from 100 to 200 hours for the CH-47B/C. Eyeball the latest PM manuals.



Wind-blown sand can scratch windows on your bird real quick when you operate in the desert.

Sand damage can lead to a lot of work polishing out the scratches on a plexiglass window or replacing a glass one.

You can head off damage, tho, by keeping your windows covered when you're on the ground. Make sure the



covers are on good and snug so the wind can't get under the edges.

Your engine can be a victim, too! If you don't get the engine inlet cover on

snug, it can blow off and the engine will fill up with sand. The engine then has to be removed to get all the sand out.



Pitot covers are also a must. Sand blown in a tube can plug it and give a false reading.



## **Last Day Counts**

You know you have to send in a DA Form 1352, Army Aircraft Inventory, Status and Flying Time Report, right? But are you reporting all your birds—even if they came in on the last day of the reporting period? Even that one day's info tells the headshed who had the bird and its status. Safety margins are figured from your report, too. So make sure everything's covered!



If you OH-58A/C mechs need a replacement cover for the T-63 engine inlet, there are 2 listed in İtem 45, Fig 2 of TM 55-1520-228-23P. If your bird doesn't have the reverse air flow fairing, you need cover, NSN 1730-00-157-5476. If it does, you want cover, NSN 1730-00-175-6638.



#### **Use New Grease**



When you hand-lube the tail rotor spline couplings on your OH-58A/C aircraft every 150 hours, use Molub-Alloy Grease, NSN 9150-01-044-4587—Item 69, Table 1-2 in TM 55-1520-228-23. The new grease does a better job on the splines than Wide-Temperature-Range (WTR) Grease, MIL-G-81322.



## A Better Way to Go

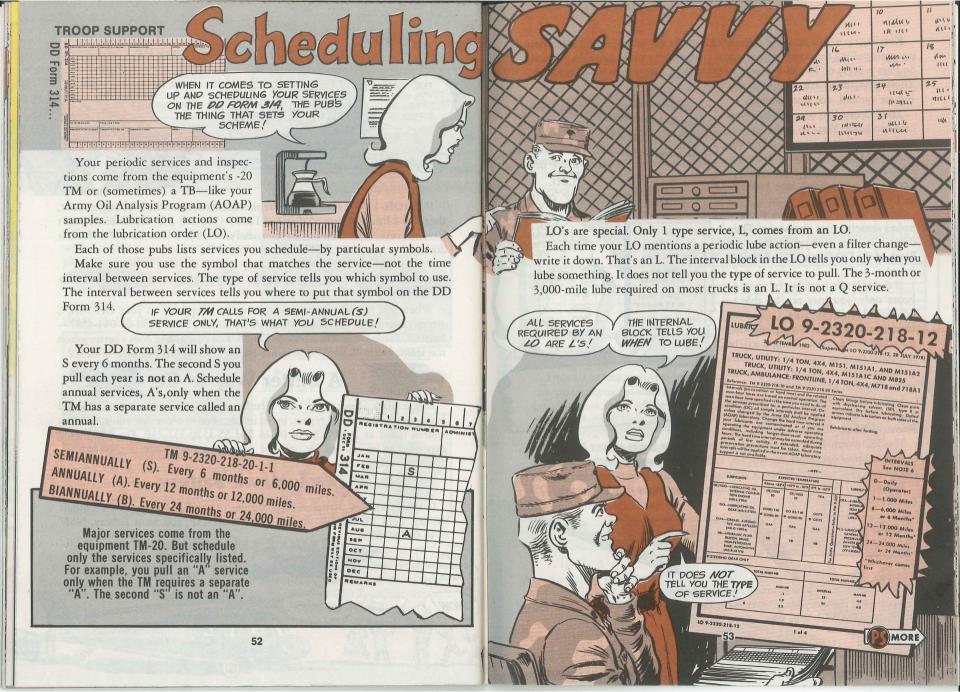


If you Black Hawk types have a faulty gunner's seat inertia reel removed from your bird for field repair, listen in! No need to order the whole restraint system listed as Item 10, Fig 69 in TM 55-1520-237-23P. Fig 69 is being expanded to let you ask for only the part you need. Watch for the change.

### **Black Hawk Battery**

If the spark has permanently gone out of the BB-716A nickel-cadmium battery, Item 18, Fig 187 in TM 55-1520-237-23P, you want battery, NSN 6140-01-000-0134





Keeping up with a bunch of different L's can be a headache. Then, too, when you start pulling services together, some symbols may cover more than others. So Para 3-3c(3) of TM 38-750 says you can adopt subsymbols if you need 'em.

Those subsymbols are used with the regular symbol, not instead of it.

The LO usually codes the intervals between lubes. You can make up your own subsymbols for L's or adopt the ones the LO uses. A lube pulled every 1,000 miles or monthly can be an L<sub>1</sub>, a 3,000-mile or 3-month lube becomes an L<sub>3</sub>, and so on.

Set up a system that suits you and makes sense to your mechanics. Then cover it in your SOP or the Remarks Block of the DD Form 314—if there's room!

If the LO calls for lubes by miles or hours only, you may not be able to schedule them in advance. Unless you have a good feel (experience mostly!) for when those miles or hours will be up, you'll have to wait until the miles or hours roll around before you put the service symbol in a date block.

List those services—their symbols and miles or hours needed-in the Remarks Block of the DD 314.

The DD Form 1970 or other record of miles or hours is your key here. Remind your operators, mechanics, TAMMS clerk and dispatcher to keep an eye on the gear's usage. When it reaches those miles/hours, pull the service.

Then ink in the symbols and the miles/hours in the date block of the DD

Form 314. Use a pencil when you ...ink, when you schedule services... pull them!

Hold one! There's a twist for equipment under the AOAP. You still schedule and pull lubes the way your LO says. But you change the oil and the oil filter only when the AOAP lab tells you.

#### LO 9-2320-218-12 YOU CAN MAKE UP YOUR OWN SUBSYMBOLS FOR L'S PULLED ... OR USE THE INTERVALS O'S INTERVAL See NOTE 6 CODES, AND THEN ENTER D-Daily THEM IN THE (Operator) REMARKS BLOCK OF 1-1.000 Miles DD 3141 6-6.000 Miles or 6 Months -12,000 Miles or 12 Months' 24-24,000 Miles or 24 Months REMARKS L1 - 1,000 miles 46-6,000 miles or 6 months L12-12,000 miles or 12 months 124-24,000 miles or 24 months

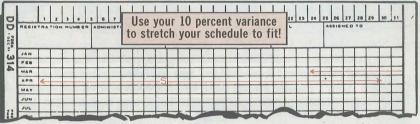
#### When Services Are Due

Just as you use the TM and LO to schedule your services, make sure you use them when you pull those services. Both pubs tell you what to check or lube, how and where. They give you a list of the tools and materials you need, parts and supplies you'll use.

But there's more! Check the records on the gear. Other forms tell you about any deferred maintenance or clue you in on possible trouble spots.

The date you mark in pencil for a service is when the service is due. But sometimes you just can't pull a service on the exact day or miles/hours.

So you get 10 percent leeway—of the miles or hours or days between services. For a semiannual, that means you have an extra 36 days in which to pull a service: 18 days before or 18 days after the scheduled date.



As long as you pull the service within 10 percent of when you planned it, just ink in the originally scheduled date with the actual miles of hours beside it.

That 10 percent is a real help. You can use it to avoid holidays, rush times, training periods or whatever messes up your schedule. Best of all, you use it to pull services together.

If you pull a service outside the 10 percent, no real sweat. Erase the original schedule, ink in the symbol on the day you actually pulled it and add the miles or hours. Then...



Got a Maintenance Problem?

Write: MSG Half-Mast PS Magazine Lexington, KY 40511 Or call: Autovon 745-3503



If you look at the Army Master Data File (AMDF), you'll find some NSN's changing partners and do-si-do-ing.

The Army's passing management of a heap of NSN's to other agencies. you know what to order next time. Those NSN's will switch to Source of Supply (SOS) codes in the S9-series: changes, mark all your forms and S9C, S9E, S9G, S9I or S9M.

about changes in SOS.

Right! But some items may do-si-do item's dropped out. to new NSN's.

If the new manager finds an NSN that does the same job-or better job—than the Army item, the Army NSN will drop out.

Seven new NSN's replaced 8 NSN's for the M240 machine gun after S9I took over those parts, for example.

You may get word on some NSN changes. Others, you'll find out about only by keeping a sharp eye on the AMDF.

The Phrase Code (PC) points you to the new NSN in the nomenclature column for those items.

What happens if you order an NSN being dropped? Chances are, the manager will just substitute the new item and NSN. But watch for those subs, so

When you get word on NSN records with the new info.

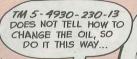
So what? Your support worries Get a sub that won't work? Tell support, now! Could be the wrong



Tank and Pump Units...

### Oil Changing Made Easy

Changing engine oil in your tank and pump unit is a weekly (or 50hour) service.





 Remove the manifold-to-inlet fuel hose and the pump outlet fuel Draw hose. Use the procedure in Para 4-17 of the -13 TM.



 Remove the 4 screws, nuts and washers that hold the pump and engine base in place.



Pump outlet fuel hose

- Slide the engine and pump assembly out far enough so that you can get to the bottom drain plug.
- Remove the plug thru the opening in the baseplate and catch the oil in a bucket.
- Replace the plug, and fill the engine with new oil.
- Slide the assembly back in place, bolt it down, and reconnect the hoses.

# Torque Wrench

Dear Half-Mast.

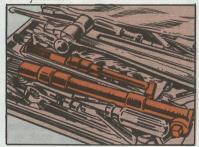
TM 9-243, Use and Care of Hand Tools and Measuring Tools, is skimpy on torque wrench care and maintenance.

Is there a particular way we should use and store our preset, audible, micrometer and screwdriver-type torque wrenches? SSG P. L. B.

Dear Sergeant P. L. B., I'm glad you asked. If your maintenance job calls for

using the torque wrench several times during the day, reset it to its lowest setting each time.

Always put the wrench back in its box after using it. Never toss it into a box with other tools. You'll damage it every time.



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At the end of the day when you put the wrench away, leave 20 percent of its maximum torque on the spring or

Examples: If your wrench has a torque range of 0 to 100 lb-in, set it at 20 lb-in. A wrench with a 700 to 1.500 lb-in range would be stored with 1,000



lb-in on the spring or lever. (1,500 x 20% = 300 lb-in. Add this figure to 700 lb-in to get 1,000 lb-in.)

This tension keeps the lever or spring from being "set" if the wrench is dropped, knocked off a shelf, or slammed against a wall.

WITH TORQUE WRENCHES, THE ONLY WAY IS



If your AN-M4-series reciprocating compressor unit doesn't have a charging hose and pressure gage on top of the water separator, tell your organizational maintenance people.

The charging hose and pressure gage assembly are necessary in order to use the compressor with newer flame throwers in the system...or coming in soon.

Para 2-5, TM 9-4310-100-20&P. authorizes the alteration. The paragraph lists instructions, illustrations (Fig 2-1) and stock numbers for the parts.



MARTIAN 4-SERIES

DRAGON ...

TM DOESN'T

ALTER HIM!

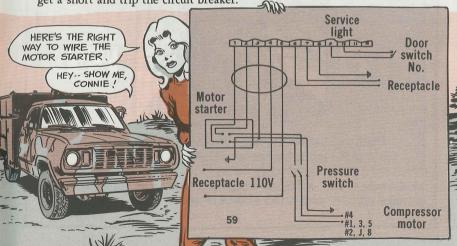
AUTHORIZE US TO

THANK

M887 Contact Maintenance Truck...

## Wiring Diagram Goof

There's a mistake in the wiring diagram in Fig FO-1, TM 9-4940-421-14. When you hook the compressor motor starter up the way it's shown, you'll get a short and trip the circuit breaker.



## the deal work hand white Flash 'em Right!

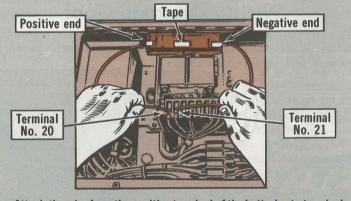
If your generator has stopped putting out, it may be because the generator exciter field needs energizing.

To get it back on line, you have to "flash" the field. Flashing energizes the exciter field winding, producing power when the generator is running.

If you have an older generator with a flash switch, start the generator and hit the switch for a second or so.

NEW GENERATORS DO NOT HAVE THE SWITCH! HERE'S HOW TO FLASH 'EM...

- Open the control box cover.
- Place two 1.5-volt batteries in series and hook up a piece of WD-1 wire to each end. Use tape to hold the wires on and to hold the batteries together.



Attach the wire from the positive terminal of the batteries to terminal No. 20 of the voltage regulator.

- Start the generator set.
- Touch the negative wire to terminal No. 21 for a second
- Remove both wires and vou're done.

0.5 to 10-KW Generators...

Load and Ground Terminal Studs

YOU DIDN'T KNOW.

.. THERE ARE MANY DIFFERENT SIZES AND SHAPES OF GROUND AND TERMINAL STUDS!

YOUR CHART'S A HANDY

REFERENCE FOR MY MECHS!

1	P. Commence							
7	KW	Size	Load Terminal Stud NSN/PN	Wire Size (AWG)	Ground Terminal Stud NSN/PN	Wire Size (AWG)		
	0.5	60-Hz 400-Hz 28-VDC	5940-00-958-0349	10	5940-00-926-9827	6		
	1.5	60-Hz 28-VDC	5940-00-958-0349 13208E5820-6 (97403	3) 6	5940-00-958-0349	10		
	3.0	60-Hz ) 400-Hz	5940-00-958-0349	10	5940-00-952-2827	10		
		28-VDC	5940-00-958-1214	2	5940-00-952-2827	10		
K	5.0	60-Hz }	13211E6908 (97403)	6	13208E5820-6 (97403	3) 6		
7	10.0	60-Hz 400-Hz	5940-00-958-1214 5940-00-901-0287	2 2	13208E5820-6 (97403	6		

**GED Set** 

THANKS

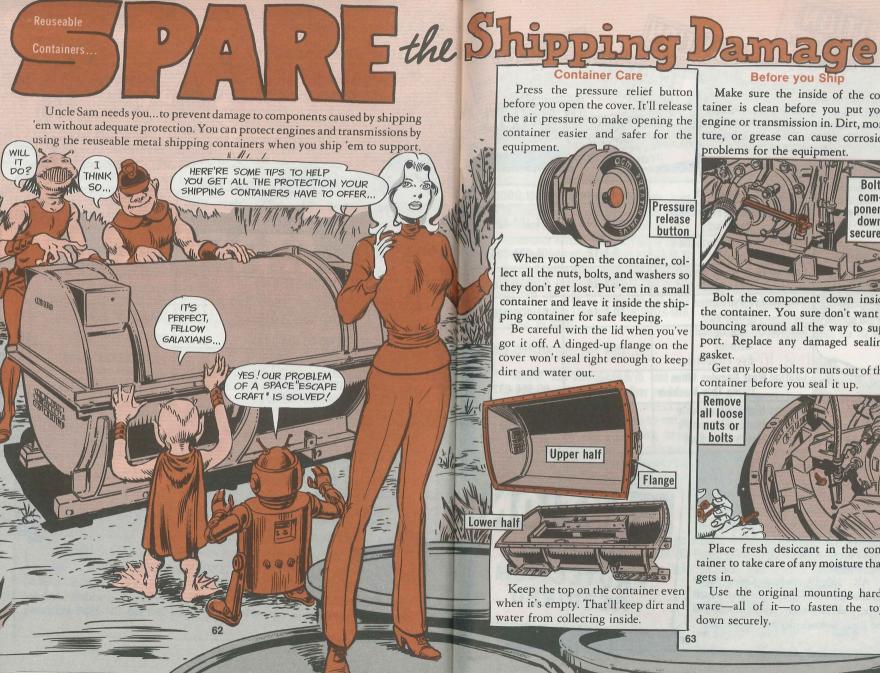
SARGE

**DED Sets Load Terminal** Wire Size **Ground Terminal Wire Size** KW Size (AWG) (AWG) Stud NSN/PN Stud NSN/PN 5940-01-009-4763 2 5.0 60-Hz 5940-00-234-3383 60-Hz) 10.0 5940-01-009-4763 5940-00-234-3383 400-Hz

Reflective Tape

If you're looking for a reflective tape for ground support equipment used on the airfield, ask for tape, NSN 9390-00-949-8047. The 5-in wide white tape replaces the silver-white tape in Para 8-69 of TM 55-1500-204-25/1 on aircraft maintenance.

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#### Before you Ship

Make sure the inside of the container is clean before you put your engine or transmission in. Dirt, moisture, or grease can cause corrosion problems for the equipment.



Bolt the component down inside the container. You sure don't want it bouncing around all the way to support. Replace any damaged sealing gasket.

Get any loose bolts or nuts out of the container before you seal it up.



Place fresh desiccant in the container to take care of any moisture that gets in.

Use the original mounting hardware—all of it—to fasten the top down securely.



Dear Sergeant G. M. C.,				
Dear oergeant	Legend	Size (inches)	NSN 9905-	
HERE'S A LIST OF SOME COMMON SIGNS	/ nequired	10 X 14	01-100-8205	
	Caution Hearing Protection Required	8 X 18	01-031-1247	
8	Caution High Noise Area Wear Ear Plugs	10 X 14	01-122-1140	
	Caution Eye Protection Required	10 X 14	01-100-8203	
	Caution Do Not Operate Without Eye Protection	10 X 14	01-100-8204	
	Caution Wear Goggles When Using This Machine	7 X 10	00-956-6324	
3	Caution Highly Flammable Caution Highly Flammable Caution Watch Your Step	10 X 14 7 X 10 10 X 14	01-054-0428 01-054-0427 01-054-0450	

Order the signs on a DD Form 1348-6 and note in the Remarks Block that the NSN's are not on the AMDF.

If you have noisy gear that requires a black-on-yellow noise caution sign, order it with NSN 9905-00-198-2728. The sign is 2.13 inches X 4.6 inches and has an adhesive backing. It's on the AMDF.

AR 385-30, Safety Color Code Markings and Signs, tells you which type and color signs and symbols will be used to mark dangerous areas.

CAUTION

PROTECTION REQUIRED



## 2½-Ton Brake Safety!

Make sure you install only safe brake air/hydraulic cylinders on 2½-ton trucks! Details on indentifying the right cylinders are in a Maintenance Advisory Letter sent out by the US Army Tank-Automotive Command (DRSTA-M) 30 Nov 82. If further info is needed, phone AUTOVON 786-7398 or Commercial 313-574-7398 or FTS 973-7398. Or write to Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MTB, Warren, MI 48090.

## Somebody Goofed!!

Adapter, NSN 5120-00-619-9776, used with the power wrench to torque the Huey and Cobra main rotor retaining nut, was cast too thick and won't do the job. The "fat legs" will not seat on the trunnion and will cause wrong torque readings and possible damage to the rotor mast. So, scrap the old one and ask for adapter, NSN 4920-00-432-3316. Continue to use the old adapter socket wrench, NSN 5120-00-619-9779.

## 1/4-Ton Throttle Clip

There's a new NSN for the throttle rod clip on the M151-series 1/4-ton trucks. Use NSN 5340-00-776-6646 instead of the number shown in TM 9-2320-218-20P, Fig 23.

#### M11 ID Plate

Identification plate missing on your M11 decon? Get a stick-on ID plate with NSN 9905-01-135-6952.

## Mask Moisture Fighter

If rain and high humidity in your area are getting to your M17/M17A1 protective mask's filters, M1A1 waterproof bag, NSN 4240-00-803-5839, may do a better job for you. The bag has snap fasteners, not rubber bands like the M1.

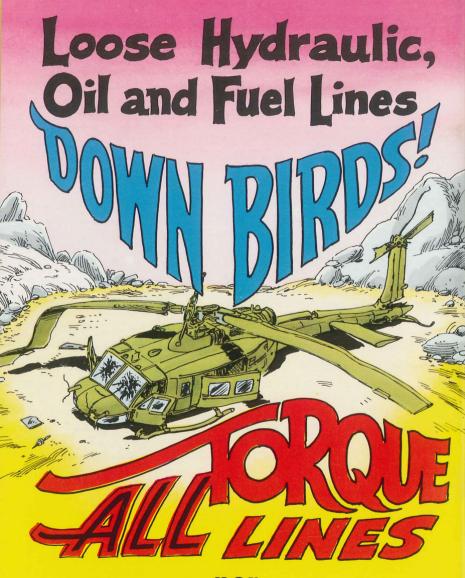
## **POL Hotlines**

Got a question about fuels or lubes? Use these "hotline" numbers to find out if current LO's list the right specs, what fuel is recommended for your equipment, if substitutes are available, what additives are approved, etc. Call the US Army Mobility Research and Development Command at AUTOVON 354-4325-3576 or -4594.

## Long Wait for Trailer Boxes

Replacement trailer boxes for ¼-ton, ¾-ton or 1½-ton trailers are not "readily available", as stated on Page 24 of PS 360. Action has been taken to change the Acquisition Advice Code for all 3 boxes from "D" to "J". This means they are non-stocked, long-lead-time items.

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



per TM 55-1500-204-25/1