

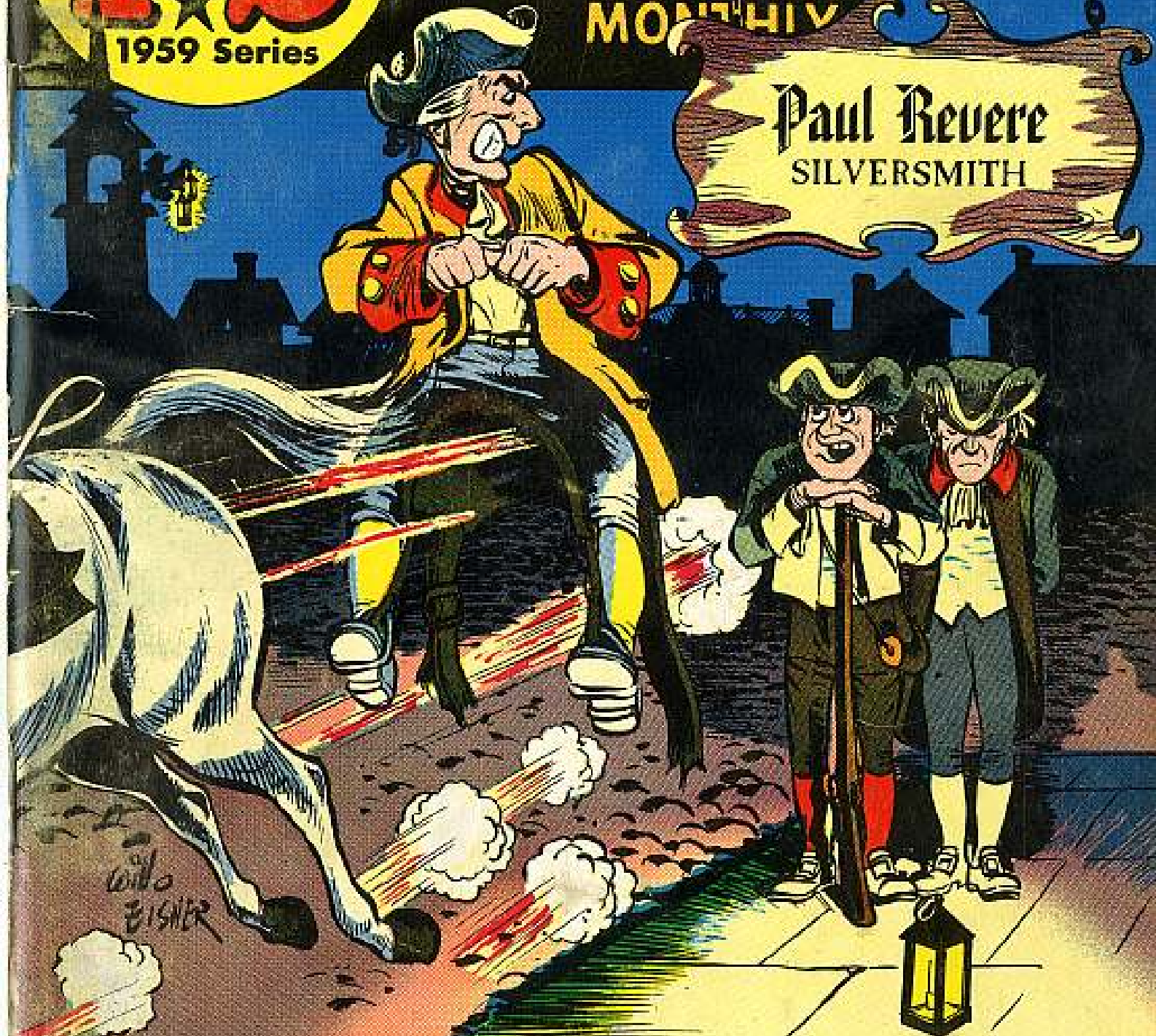
Issue 80

**PS**

1959 Series

**THE  
PREVENTIVE  
MAINTENANCE  
MONTHLY**

**Paul Revere**  
SILVERSMITH



*“was ye frayed cinch previously reported on your DD Form 110?”*

For Battle...  
What Counts?

## Spit-'n'-Polish or Dirty Work?



This is the story of two combat outfits.

There was this first outfit—a tank battalion—which had the cleanest crews and mechanics you ever saw.

Spit-and-shin they were... uniforms always neat, pressed and clean... even at the end of a day's maintenance work on their tanks. And they made sure their T.M.'s and other publications were kept on the shelf where they wouldn't get messed up. Real neat. Always ready to stand a spit-and-polish inspection.

Then, over on the other side of the post was this other tank outfit which didn't worry too much how their crews and mechanics looked—while they were at work on their tanks.

Sure, they got dirty and greasy, and their work uniforms seldom had that "fresh pressed" look. (Course, they changed to clean and neat uniforms when they were away from their maintenance work.)

And their T.M.'s... man alive... they were a sight! Grease, thumbprints, torn—practically worn out, they had to get new ones real often.

Tummy thing, tho. Army gave the post a surprise alert, and the battalions had to get ready and be on the road in five hours. Not only that, they had to make a 50-mile road march to break some strong "enemy" resistance.

What happen?

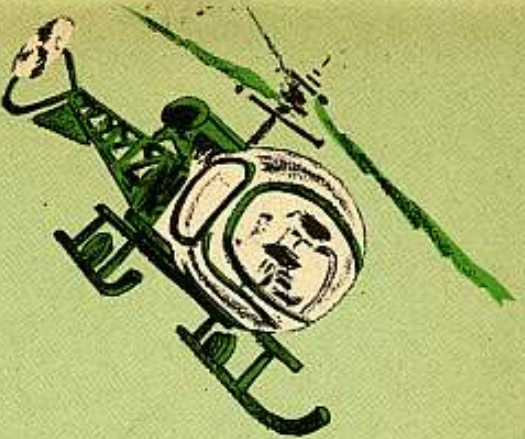
That first outfit fired up with great dash and show. The general was impressed with what he saw: Twenty-one tanks never even moved, nine more conked out in the first ten miles, about half of the battalion's tanks actually reached the "combat" area. All these losses, and the "enemy" hadn't even fired a shot!

How about the other battalions?

Every tank moved. A couple had brief delays along the route, but the troubles were minor and were fixed by mechanics who knew how to do their job.

The payoff?

The entire battalion reached the objective and cleaned up the "enemy" resistance. How will your outfit perform when you get the word "Go"?



# PS PREVENTIVE MAINTENANCE MONTHLY

ISSUE No. 00 1959 SERIES

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PS wants your ideas and contributions, and is glad to answer your questions. Just write to: **Set Half-Mast, PS, Raritan Arsenal, Metuchen, New Jersey.** Names and addresses are kept in confidence. The printing of this publication has been approved by the Director of the Bureau of the Budget (27 Apr 59).

### DISTRIBUTION:

In accordance with requirements submitted on DA Form 12.

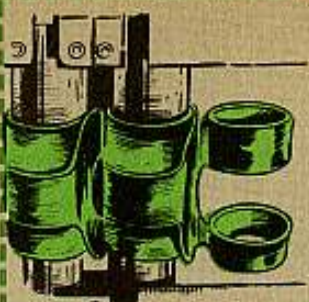
# M13 CUPOLA

# CAPERS

## GETTING LOADED

Hear tell some gunners loading the .50-cal ammo in their M13 cupolas are running into trouble by misinterpreting the info on page 86 of TM 9-2300-203-12. To keep this from happening and until the full story can come out in a change to the TM follow this deal which'll make you the best gunner in your M59 APC or M84 SP 4.2-in mortar.

First... you want a double empty link at the end of the ammo belt that's gonna be fed into the weapon...



...and a single empty link at the other end. If you have to, take out cartridges so's you wind up with the belt this way.



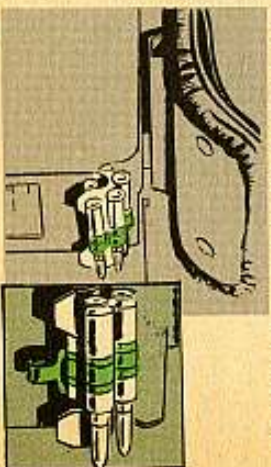
OK... now you feed the single empty link into the ammo box. Make sure the cartridges face in the same direction as show up on the ammunition instruction plate.



Keep feeding the belt into the box until the cartridge with the single empty link can be pulled through the opening at the rear of the commander's seat and hooked under the belt holder on the outside of the ammo box.

The reason you hook the link on the box, of course, is so's you can couple other belts to it and feed the ammo into the rear of the box.

Getting back to where we were... once the one end of the belt is hooked,



...you keep feeding the belt into the box—stacking it in neat layers on the bottom of the box as you go along.



When you come to the double empty link, push in the hooster anti-roll back button...



...take hold of the double link... and carefully pull the belt up over the ammo booster motor sprocket and into the ammo chute.



Then let go of the hooster anti-roll back button.

And, as the TM says, if the leading cartridge jams in the booster housing, pull the belt downward until you get rid of the jam.

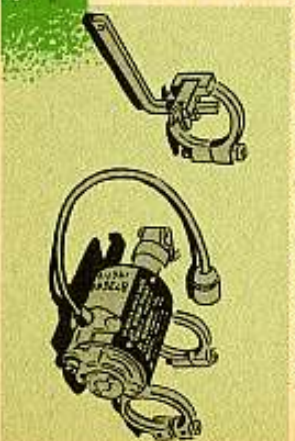
## MISSING PARTS

So you've been trying to latch on to some parts for the .50-cal machine gun in your M13 cupola... and you can't find them listed in TM 9-2300-203-20P.

The odds are the parts are the solenoid and hand firing trigger. They were left out of the .20P by mistake. Until the stock numbers show up in a change to the TM, here's the dope you need for requisitioning the parts.

SOLENOID: FSN 5945-630-0901.

HAND FIRING TRIGGER: FSN 1005-626-9176.



HMM, MUST BE A LOYALIST SABOTEUR...

## SEAL IT

Don't let water slip in the slip ring assembly for the M13 cupola in your M59 APC or M84. It gets in the assembly 'cause the cable outlet from the slip ring into the ammunition system conduit isn't sealed.

So the answer is simple—you seal it. The stuff to use is Sealing Compound, Asbestos (GK), and FSN 8030-264-5114 will get you a 25-pound container from Ordnance.

All you have to do is press the compound in and around the cables and grommet . . . and put enough of it on to give you a build-up around the cables.

While you're working the compound in, remember to keep it out—of the slip ring assembly.



## INFRA-RED PERISCOPE POOP

*Dear Half-Mast,*

*We're an M59 unit having troubles requisitioning parts or complete replacements for the infra-red periscope mount that sits in the driver's hatch cover. We can't seem to find the mount in the supply manual for the vehicle.*

*Our support supply unit says just turn in the old ones as FWT (fair wear and tear) and requisition new ones. But how?*

*PFC J. J. M.*

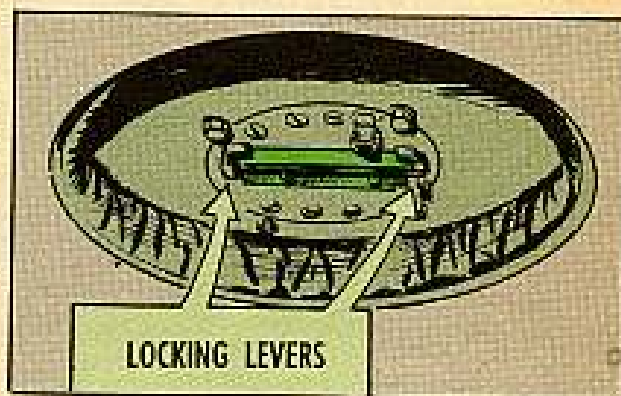
Dear PFC J. J. M.,

You got a right to be lost. You see the info for this infra-red periscope mount got left out of the current M59 supply manuals. This is being corrected.

Actually, all that holds this periscope in place is a pair of locking levers attached to the hatch door—so it's not a mount as you'd normally think of one.

It's called a Release, quick, driver's door assembly and goes under FSN 2590-590-0241. You'll get it less guards.

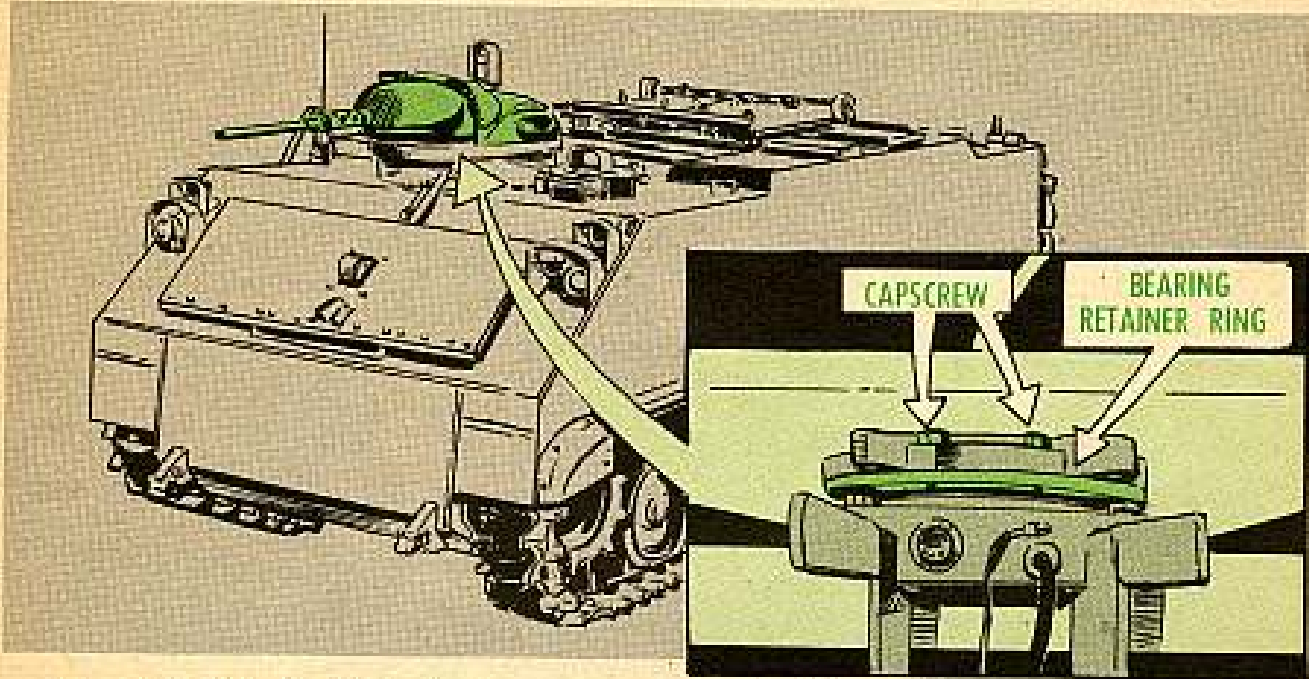
The depots have this release, so you should be able to get it through the usual methods—without it being bounced back. Since the mount's supposed to be an Ord 8 item, you'll have to ask your support unit to order it for you.



# GET PUNCHY

If it hasn't happened on your M59 APC or M84 SP 4.2-in mortar yet, don't think it won't.

We're talking about the way some outfits have had loosening troubles with the eight 1/4-in capscrews that hold the bearing retainer ring to the housing in the M13 cupola. Vibration plays hob with those capscrews and they just plain loosen up.



It wouldn't be bad if only the capscrews worked loose. But, once that happens, you're opening the door for the electrical brush set and bracket and commutator assemblies to be damaged, among other troubles.

The way to keep those capscrews tight is to get your company mechanic to take a small center punch and lightly stake the bottom surface of the bearing retainer ring into the capscrew threads.



In case the brush set or assemblies have been banged up already, here's the info you want to give to your support unit so they can get replacements.



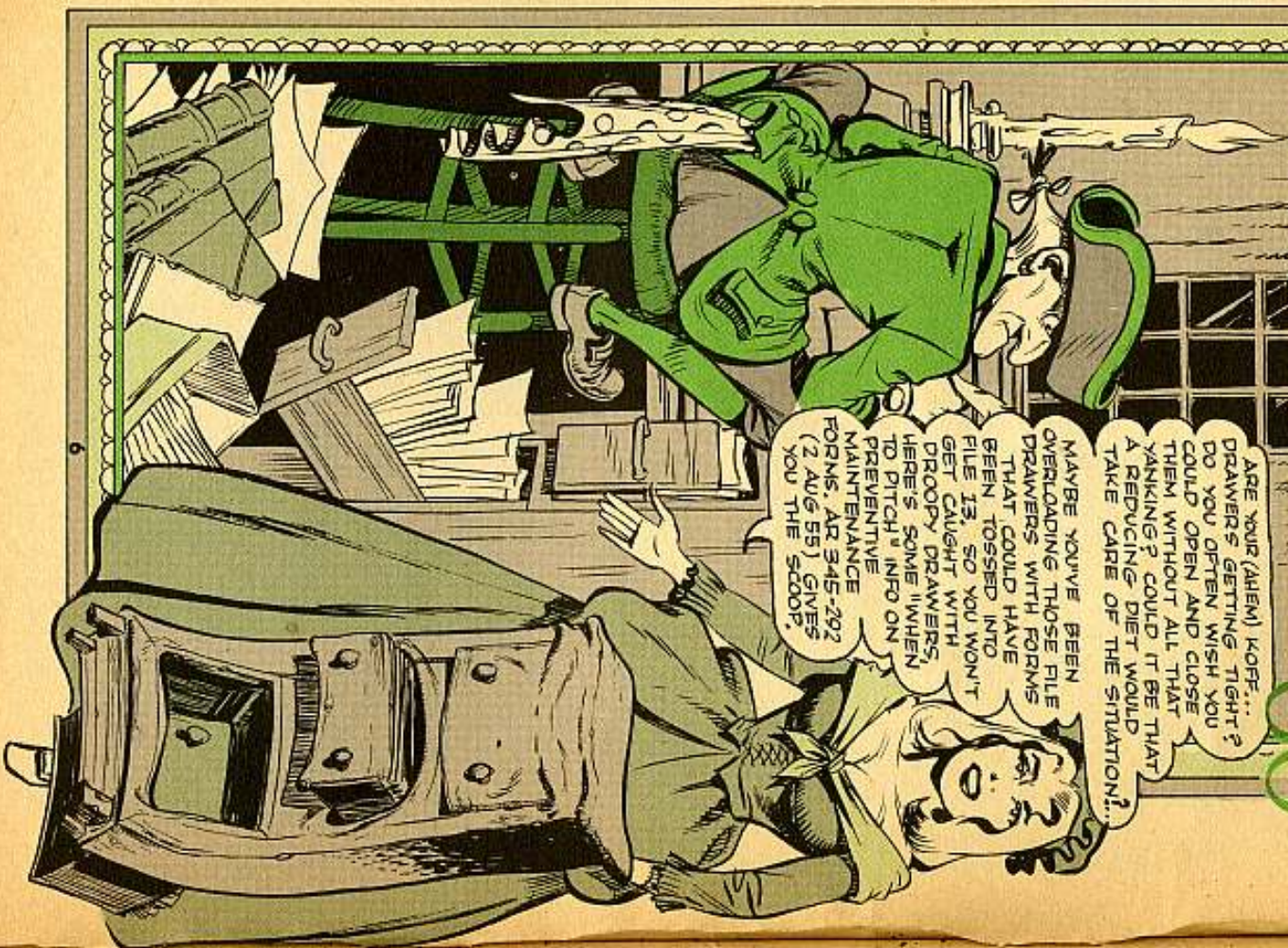
- BRUSH SET, ELECTRICAL: FSN 1005-608-1156
- BRACKET ASSEMBLY: FSN 1005-631-7727
- BRACKET ASSEMBLY: FSN 1005-631-7728
- COMMUTATOR ASSEMBLY: FSN 1005-608-1361

CHIEF CLERK  
CONTINENTAL ARMY

# DROPY DRAWERS

ARE YOUR (ARMY) KOFF... DRAWERS GETTING TIGHT? DO YOU OFTEN WISH YOU COULD OPEN AND CLOSE THEM WITHOUT ALL THAT YANKING? COULD IT BE THAT A REDUCING DIET WOULD TAKE CARE OF THE SITUATION?!

MAYBE YOU'VE BEEN OVERLOADING THOSE FILE DRAWERS WITH FORMS THAT COULD HAVE BEEN TOSSED INTO FILE 13, SO YOU WON'T GET CAUGHT WITH DROOPY DRAWERS, HERE'S SOME "WHEN TO PITCH" INFO ON MAINTENANCE FORMS. AR 345-292 (2 AUG 55) GIVES YOU THE SCOOP.



FORM 3

HOW ABOUT THIS ONE?

DA 9-75  
(Daily Dispatch Record)

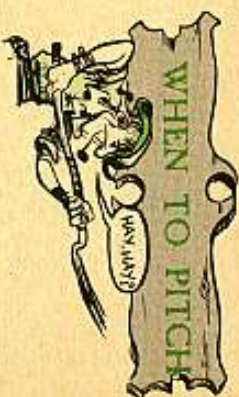
DD 110  
(Upper Half—Dispatch Part)

AND PRAY TELL, WOT'S A TRACKED VEHICLE?

DA 2145  
(Tracked Vehicle and Equipment Operational Record)

"IN THIS ONE TOO..."

DD 110  
(Lower Half—Prescriptive Maintenance or Comparable Service Forms)



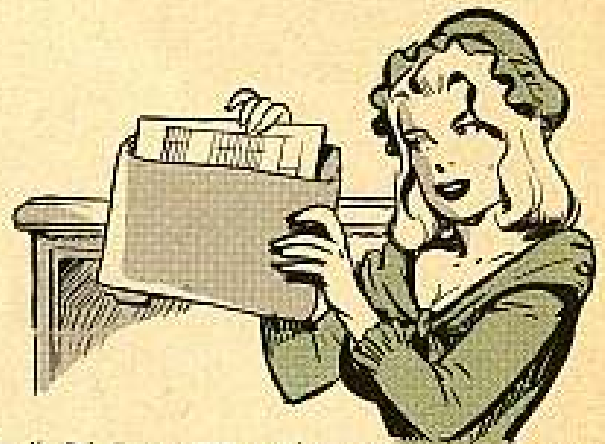
Keep both for two months and then destroy unless file has to do with a vehicle that's been involved in an accident and all action's not been completed by the claims officer.

Reports which show no uncorrected deficiencies or which show that deficiencies have been recorded in the current work file should be destroyed after review by responsible supervisory personnel.

Daily inspection reports that show no deficiencies or corrected deficiencies should be destroyed after they've been reviewed by supervisory personnel. Any deficiency not corrected will be recorded in the current work file and the daily inspection report marked CWF. The signature of the mechanic doing the inspection or service should appear in the "Inspected By" space. After deficiencies have been recorded in current work file, daily inspection report may be destroyed.



If there're existing deficiencies on Engineer equipment, keep until the next scheduled maintenance service, at which time the deficiency will be recorded in the remarks section of DA Form 464 and then destroyed.



File in DA Form 478 until completion of the next quarterly service and then destroy.

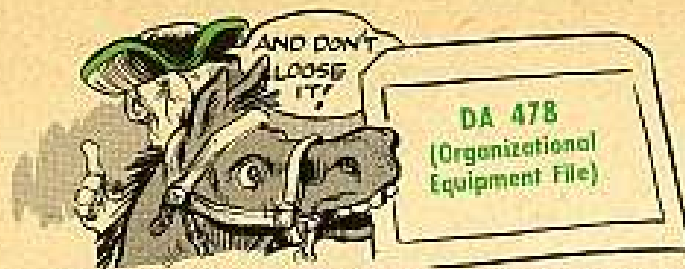


When a sheet is filled and all required repairs listed on the sheet are completed, the current work file sheet may be destroyed and a new sheet started.



WHEN USED AT ORGANIZATIONAL LEVEL, KEEP UNTIL ALL WORK REQUESTED HAS BEEN DONE.

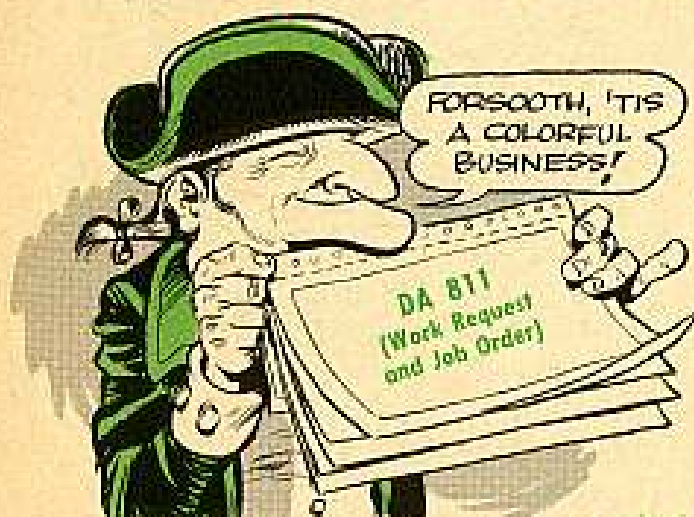
Destroy after 6 months.



Remains with the unit to which the equipment is assigned until the equipment is transferred, sold or salvaged. It goes with the equipment wherever it goes.



Part I stays with the carriage or mount during serviceable life. Part II stays with the tube or cannon until it's condemned. When weapon, tube, or cannon is condemned, destroyed, turned in for salvage, or otherwise lost from service, a notation will be made in the record book by persons who condemned the material. These books and all other books separated from weapons will be forwarded through channels to the Ordnance Weapons Command, Rock Island, Illinois, ATTN: ORDOW-FM.



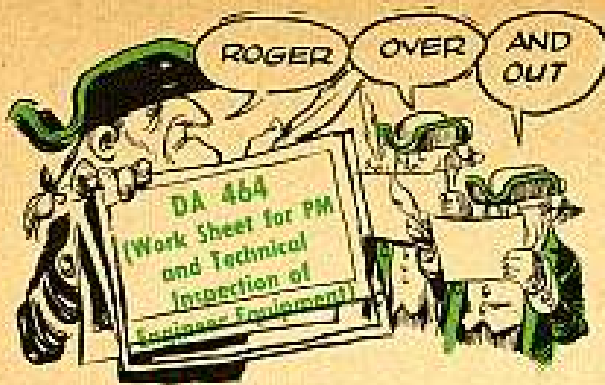
The green copy (4th) is signed as a receipt by the repairing agency for vehicle being turned in for repair. When work is done, the green copy is exchanged with repairing agency for the vehicle, the DA Form 478, the current work file, and the blue copy of DA Form 811. (The white and yellow copies are kept by the repairing agency). The blue copy should be destroyed after all pertinent entries have been made on the jacket file, DA Form 478. On Engineer equipment keep blue copy in jacket file for one year then destroy.

## ENGINEER EQUIPMENT



New monthly operational records are made out before the first day of the operating month. All deferred maintenance, service data, and accumulated hours or mileage will be transferred to the new records. Monthly operational records will be kept for one year then destroyed.





## RECORD OF OPERATION CHEMICAL EQUIPMENT

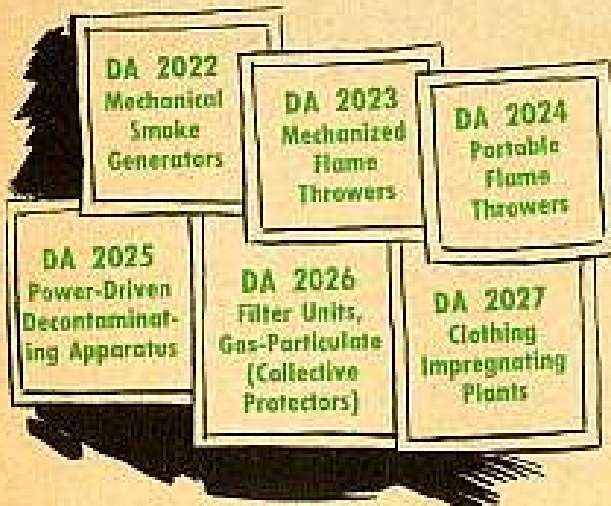
Destroy forms used for recording bi-weekly maintenance services after you've completed and filed next bi-monthly services maintenance work sheet.  
 Destroy forms used for recording bi-monthly maintenance services after you've completed the next bi-monthly inspection.  
 Destroy forms used for command and technical inspections upon completion of next inspection.



## WORK SHEETS FOR PREVENTIVE MAINTENANCE



Work Sheets listing preventive maintenance services to be done semi-annually can be destroyed after you've completed and filed next 6-month service records. Preventive maintenance work sheets which do not list services to be done semi-annually should be destroyed when they become 6 months old.



## MARINE CRAFT



Destroy forms used for monthly (200-hour) PM inspections and services after you file the next semi-annual (1200-hour) maintenance work sheet. Forms used in connection with semi-annual (1200-hour) preventive maintenance inspections and services should be destroyed when you file the next semi-annual (1200-hour) maintenance work sheet. Forms used in connection with technical inspections are destroyed when the next semi-annual (1200-hour) maintenance work sheet is filed. When a vessel passes out of Army control through sale, salvage, or destruction, all marine craft preventive maintenance service and inspection files should be destroyed 6 months later.

## ADMINISTRATIVE VEHICLES

DD 315  
(Preventive  
Maintenance  
Service and  
Inspection)

DD 316  
(Preventive  
Maintenance  
Service and  
Inspection)

Kept in DA Form 478 envelope until the next semi-annual (6-month periods) or 12,000 mile service is done. When used as job order keep in jacket file for a year.

## MAINTENANCE CHECK LIST

## SIGNAL EQUIPMENT

KEEP THESE FORMS ON  
FILE UNTIL 3RD ECHELON  
INSPECTION IS COMPLETED.

DA 11-238  
(Sound Equipment, Radio,  
Direction Finding,  
Rotor, Carrier,  
Radiosonde and  
Television)

DA 11-240  
(Telephone Set,  
Handset, Headset  
and Chestset)

DA 11-252  
(Teletypewriter)

DA 11-242  
(Manual  
Telephone  
and  
Telegraph  
Central  
Offices)

DA 11-254  
(Still and Motion  
Picture Camera)

DA 11-256  
(Photographic  
Developer,  
Projector,  
Dryer, Contact and  
Projection Printer)

DA 11-260  
(Motor Generator  
Set and Rotary  
Converter)

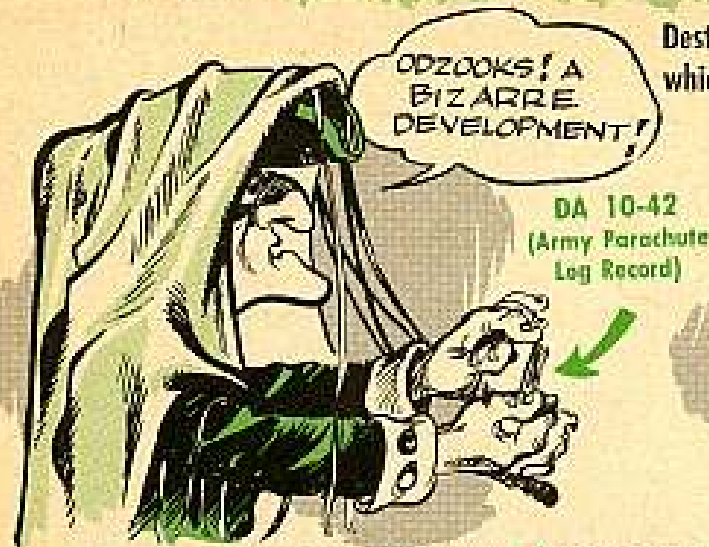
DA 11-266  
(Test Equipment)

DA 11-267  
(Engine-Generator  
Sets and Reel Units,  
Engine Driven)

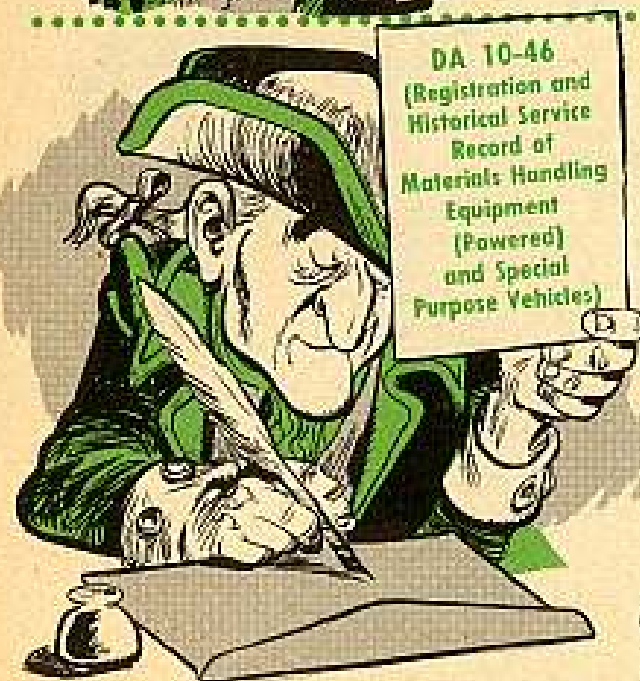


# QM EQUIPMENT

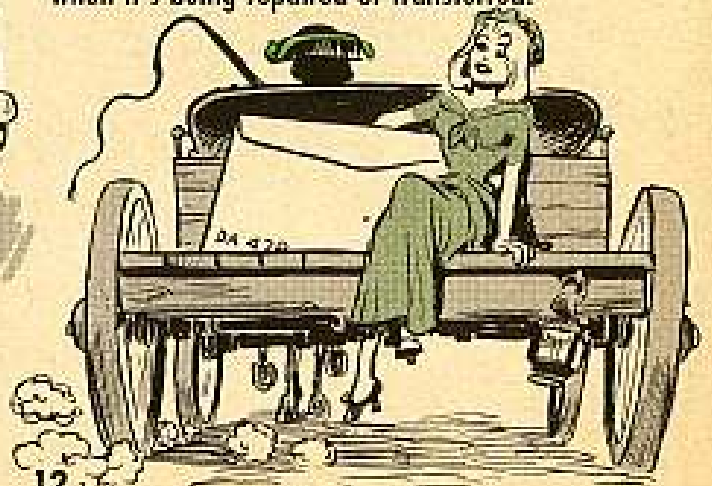
Destroy on survey or salvage of the equipment to which it belongs.



File one copy of the most recently completed inspection (100 and 500 hour) in the Organizational Equipment File (DA Form 478).

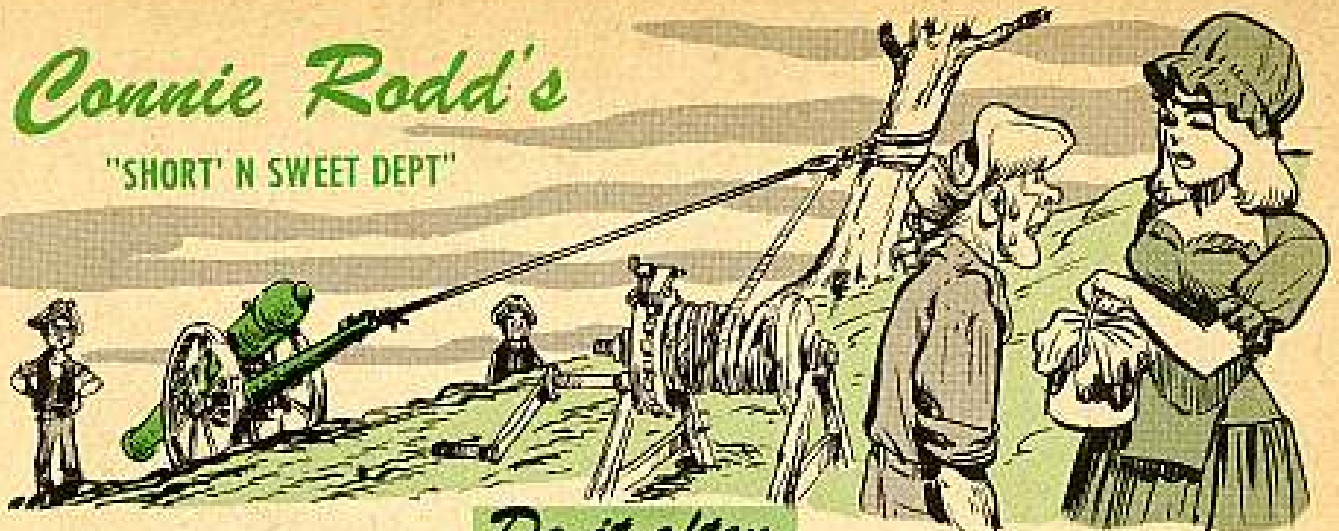


File one copy in the Organizational Equipment File (DA Form 478). This form will go with the equipment when it's being repaired or transferred.



# Connie Rodd's

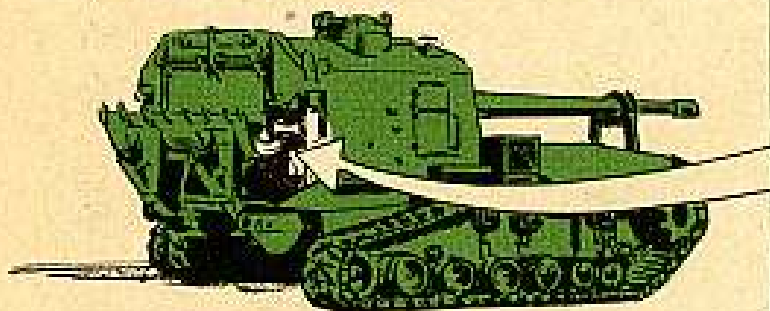
"SHORT' N SWEET DEPT"



## Do it often

Fair warning to all operators of the M53 self-propelled gun and the M55 self-propelled howitzer . . . take a few seconds of your PM time every now and then and exercise the spade hoist.

The little animal that needs this bit of extra care is the wrap-around brake band you see in Fig. 297 of TM 9-7212 and TM 9-7220. Ol' Rusty and Mr. Corro-



sion get settled down in the innards of the band and cause it to freeze to the drum.

Climatic conditions have a lot to do with this freezing. In damp areas exercise the hoist real, real often, and in other climates just do it often.

Seems normal operation of the hoist just isn't often enough to keep rust and corrosion from doing their dirty work.

## Pin pals?

Seems Ord 7 SNL G254 (Dec 56) shows FSN 5315-752-5789 as the attaching pin for the transmission shock mount on the M48 mediums and M67 flamethrower tanks.



That's not so—'cause this pin is only good for the M46 and M47 tanks. What you Ord 7 users really want is in Ord 8 SNL G254 page 159—it's FSN 5315-695-8998 and reads: Pin, cross drive drive mounting support, assy. The Pub's people are correcting this.

## Got rusty gas?

Still bothered by rust inside the tanks of your gasoline trucks and trailers? Keeping it out's a tricky and dangerous job, but TB 9-264 (5 Nov 58) tells you how to do an interior decorating job on those tanks and what to use.

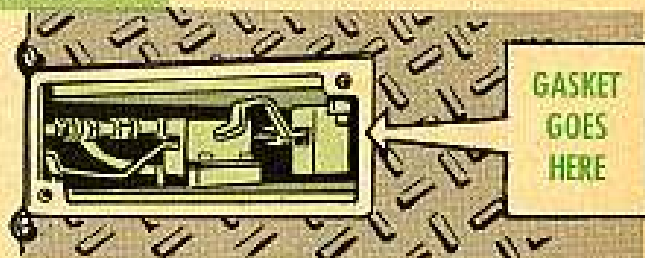
Proper cleaning and painting keeps that rusty gas from fouling up the engines in your equipment.

Chances are you'll find it pays to check every now and then for damaged paint inside the tank. Then you can handle the problem by a touch-up job along the lines laid out in the TB.



## Tight cover

If you should have to get at the fuel tank shut-off valve on your M47 medium tank . . . look-out, brother, look-out. Make sure you put the gasket back on the valve cover assembly access hole and that the valve cover is real tight! Otherwise, you're in for a stinkin'—and maybe deadly—time 'cause exhaust fumes will leak into the crew compartment. Crewmen who are hep already know this . . . they read it in section XXI of TM 9-2350-200-12.



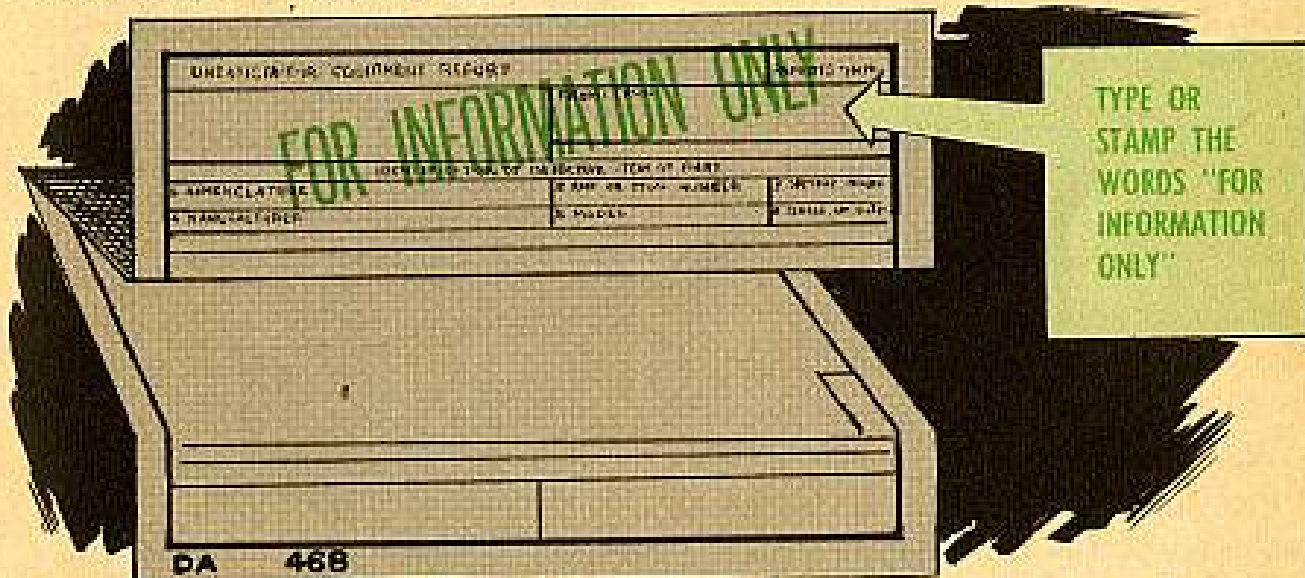
## New tank manual

The new pub for the M47 medium tank, TM 9-2350-200-12 (Oct 58), is off the presses and in the field. This new manual replaces TM-9-718A. If you don't have yours ask your publications distribution people about it.



## 'For info only'

Bend an eye toward SB 9-98-1 (21 Oct 57) just as a reminder to report all defective parts on automotive equipment . . . even when they crop up during the manufacturer's warranty period.



Para 3 says to use a UER (DA Form 468) to let Ordnance know about every warranty deal that comes along. But type or stamp the words "For Information Only" on the form.

### Send it direct to:

If it so happens you and the manufacturer can't get together on replacing a defective part, Ordnance wants to know about that, too.

Chief of Ordnance  
Department of the Army  
ATTN: ORDFM-Auto  
Washington 25, D.C.

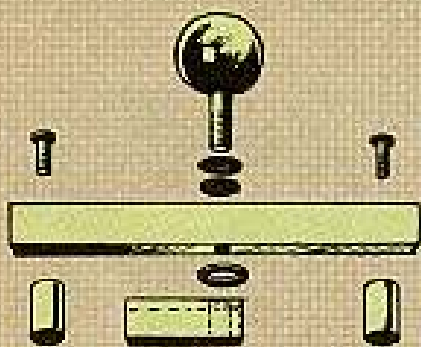
## Useless headrest

Just thought you M48A2 tankers would like to know. You don't need the headrest for the M104A1 periscope mount with the M28 periscope sight. The headrest, FSN 1240-346-8243, may as well go back to your support unit. Ask Ordnance about it.



Wanna special reminder to keep the power selector lever from slipping into the RAM groove on your M53 self-propelled gun or the M55 self-propelled howitzer?

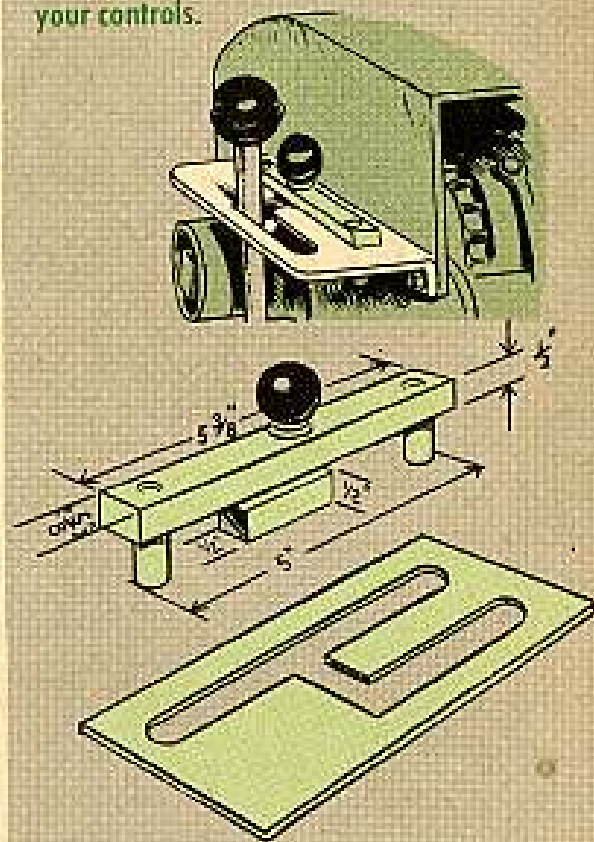
Then why not whip up this handy little gadget.



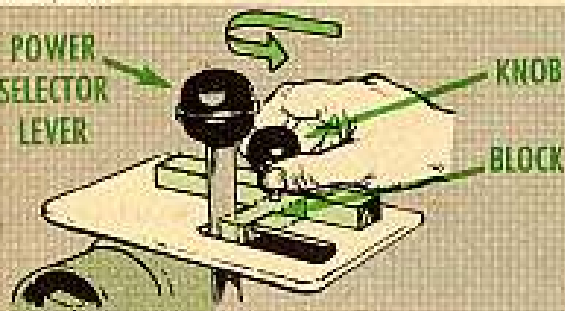
All that's needed to make this "stopper" are two lugs,  $\frac{1}{2}$ -in diameter,  $\frac{1}{2}$ -in to  $\frac{3}{4}$ -in long; a bar  $5\frac{3}{8}$ -in long,  $\frac{5}{8}$ -in wide and  $\frac{1}{2}$ -in thick; a block  $\frac{7}{8}$ -in long,  $\frac{1}{2}$ -in thick and  $\frac{1}{2}$ -in wide; two wood screws, and any knob  $1\frac{1}{2}$ -in diameter with a  $\frac{1}{4}$ -in diameter  $\frac{3}{4}$ -in extension.

You can use a T-handle instead of the knob if you like. Or you can make this "fix" out of wood or metal, whichever is handier.

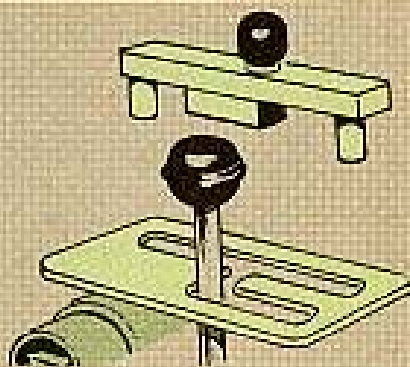
This gizmo can be inserted in the RAM slot on your controls.



POWER SELECTOR LEVER



To lock the retainer in place, just set it in the RAM groove and turn the knob or T-handle toward the SPADE HOIST slot.



To take the gadget out, just turn the knob back straight and lift out. Simple and safe.

## Is it loaded?

A while back you were clued about a couple of different spark plug cables (leads) . . . one with rubber-type grommets (sleeves) and the other ceramic. And the troubles y'get with the rubber type . . . and how to avoid 'em. Right?

Now comes a new type that makes the situation even more interesting. The new one's got rubber grommets, too, which you'll find on some new production vehicles.

Here's the score on it:

Trouble with the old rubber-grommet type was that the grommet tended to set after its first use—and lose its water-proof quality. Also, its conductor was too long, which caused it to kink and short against the cable shielding.

In the new type the rubber grommet is spring-loaded. Which means it'll seat right every time . . . and keep its water-proofing.

So-o-o—don't go tossing out a lead just because it's got a rubber grommet. Check and see if the grommet's spring-loaded. If so, use it. It's the best one for the job.

'Course that cable with the ceramic-type grommet is OK, too. It's just that the grommet is fragile and won't last too long. This type'll be used up and exhausted to the spring-loaded rubber job after a while.

This deal will apply across the board—to all your tactical vehicles with the 24-volt water-proof electrical system.



## For the carpenters

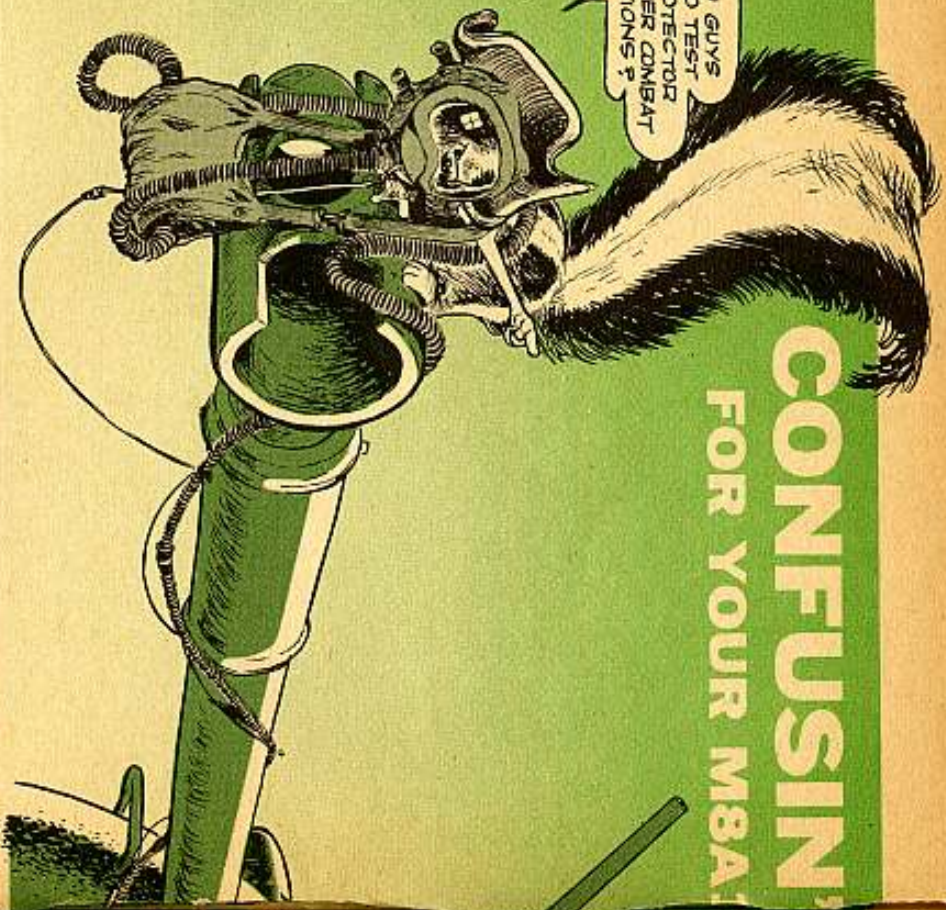
Could be you've been having trouble trying to figure out just what tools belong in your Carpenter's tool kit. Your Engineer Supply Manual 5-4-5180-S04 (14 May 58) gives you a breakdown of Tool kit, carpenter's: Engineer Squad, FSN 5180-293-2875. And SM 5-4-5180-S05, (26 Sept 58) is for Tool kit, carpenter's: Engineer Platoon, FSN 5180-293-2873. Both of these pubs have pictures of the tools.





# CONFUSIN' KIT CAPERS FOR YOUR M8A1 TANK FILTER UNIT

OK! YOU GUYS  
ALL SET TO TEST  
YOUR PROTECTOR  
GEAR UNDER COMBAT  
CONDITIONS?

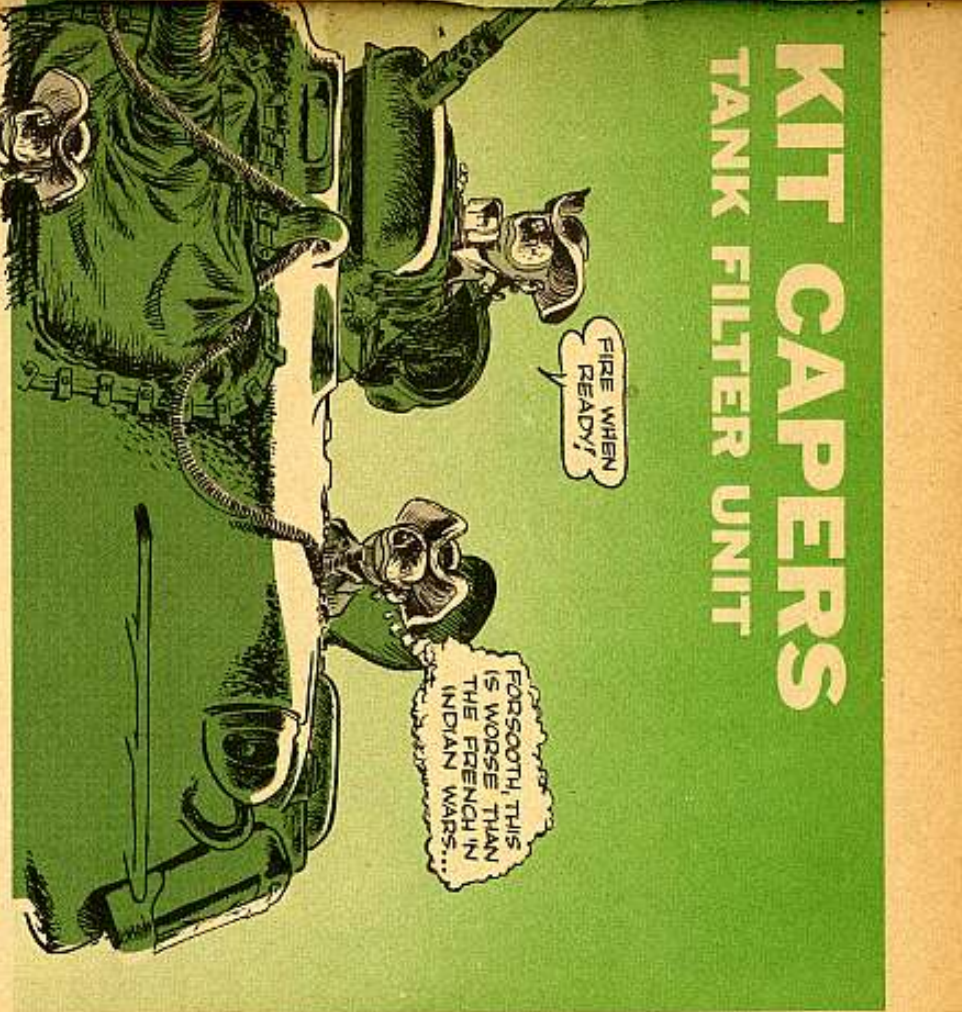


If you're the caretaker for any of the eight tracked vehicles which have the M8A1 tank filter unit in 'em, you may have a coupla supply headaches if you have to replace damaged or worn-out parts used to install the filter unit.

You see, the M20 installation kit was used to put the filter unit in your vehicle. The kit was designed to take care of all eight vehicles—a universal kit they call it—so every part needed for installing the filter unit in all vehicles was included in one kit.

Some of the parts, naturally, can be used on all eight; others on only two or three, and still others are meant for use in just one vehicle. For example, of the seven or eight cable assemblies in the kit, you may need one or two in each vehicle, which adds up to a heap of cables included in one kit.

To further confuse the issue, the parts you now have in your vehicle don't have



any stock numbers marked on 'em, so unless you know what was there in the first place, you won't be able to requisition replacements until Change 1 to TM 3-4240-200-12P (repair parts list) is published.

If you have to replace any parts, you'll need to requisition 'em through your supply channels. Natch, you'll use Federal Stock Numbers to order the parts, but if the part you want doesn't have an FSN yet, just explain this on your requisition and use the Ordnance Drawing Number and Chemical Drawing Number.

To help your Chemical supply people, look at the handy chart on the next page listing the FSN's, Ord Dwg No. and Cml Dwg No., complete with pictures of the parts. Remember though, only the parts in this chart are available for second echelon use—the rest of the kit is out of bounds as far as you're concerned.



# HELP











## M20 INSTALLATION KIT

NEEDED PER VEHICLE

PART FSN

ORD DWG NO. CML DWG NO. M48 M47 M59 M75 M74 M51 M41 M46

Tube		4240-679-3495	8743319	AS-19-1071	1	1	1	1	1	1	2	1
Cable Assy		4240-632-3044	8743315	BS-19-1057	2	2	1	1	2	2	2	2
Cable Assy		4240-632-3045	8743318	CS-19-1065	1	1	1	1	1	1	1	1
Cable Assy		4240-632-3046	8743314	BS-19-1068	1	1	1	1	1	1	1	1
Cable Assy		4240-632-9088	8743313	BS-19-1067	2	2	2	1	1	2	2	2
Cable Assy		4240-632-3048	8743316	BS-19-1069	2	2	2	1	2	2	2	2
Cable Assy		4240-632-3047	8743320	BS-19-1066					2			
Harness Assy		4240-632-3043	8743317	CS-19-1064	1	1			1			
Switch Assy		5930-296-6318	8376806	BS-19-1086	2	2	1	1	2	2	2	2
Lamp Assy		6210-656-3028	8376499	CS-19-1085	2	2	1	1	2	2	2	2



MISSILE BLASTS

WATCH THIS GENERAL!  
WE CAN CHASE THE  
GROWS AWAY FROM  
TH' CROPS WITH THIS  
ONE...

SHEER  
SORCEY!

FLYING GRAPESHOT!  
WOT'LL THEY THINK  
OF NEXT?

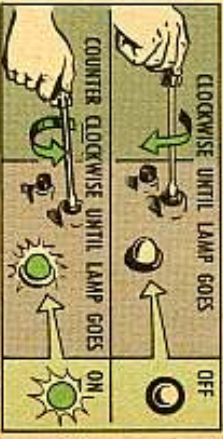
NO FLYING IN!

## HOW'S THE EQUILIBRIUM?

In your Nike-Ajax site... are the relay amplifiers in your computer balanced? When you ran your computer dynamic course

1 this week, did your Fin Order Meter flip into a 7G dive or sharp turn?

If you made a sharp turn instead of a 7G dive, your equilibrium was OK. And... like it says in para 32 of FM 44-80A, you get the right balance by adjusting the relay amplifier ADJ control until the indicator lamp goes off. Then readjust until the lamp lights. Stop adjusting the split second the light comes on. That means you've got your equi-



librium and the relays are de-energized—as simple as spending your pay.

You'll also read that you get —5G on both meters during the course. Tain't likely, tho, if your RC relay amplifier is adjusted right.

So look for a turn, +5G pitch and —5G yaw. If you don't get it, there's a good chance you're off your equilibrium.

What you do then is recheck to make sure the relay is being de-energized by pressing the output test pushbutton with the indicator lamp at the point where it's just on.

Remember... you won't see a full turn throughout the course. Old OL will take over when the missile is higher'n a kite in a March wind and drop the turn order to something like +2.5G pitch and —2.5G yaw—not necessarily both minus like you've read.



# SAVE YOUR BOX

EXCUSE ME, SENTRY,  
I'M LOOKING FOR AN  
OLD SHIPPING  
CONTAINER FOR TO  
PACKAGE THIS  
HEAD IN...

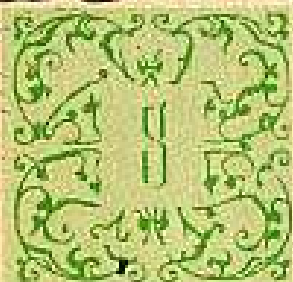
THERE'S ONE  
OVER YONDER.



These wooden shipping containers that come to your Nike site loaded with such things as warheads, Jatos and fins are great for building shelves, doghouses and what have you. No doubt about it.

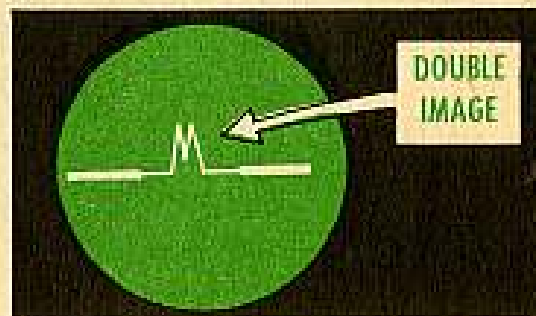
Trouble is . . . those boxes are supposed to be used over and over again. So when you send something—like a warhead—back to your support unit, put it in the box it came in.

And while you're holding onto boxes for future use, keep 'em out of the weather.



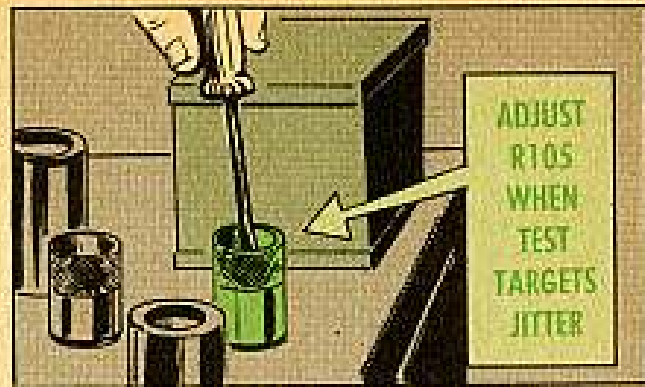
## GOT THE JITTERS?

See a double image this morning when you looked at your range mark to check out your Nike-Ajax target tracking radar? Could be a bad night, but before you reach for the APC's try the FIL BAL adjustment on the range unit assembly.

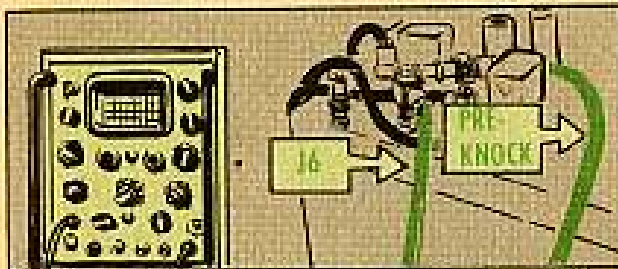


Sure—the FIL BAL control is on the top cover of the range unit assembly, but

you are adjusting R105 for the filaments of V3, V4 and V5 of the timing wave amplifier-oscillator. This adjustment doesn't show up in FM 44-80A or your TM's, so don't confuse it with paragraph 222c in FM 44-80A. That talks about the range sweep expanded area jitter adjustment.

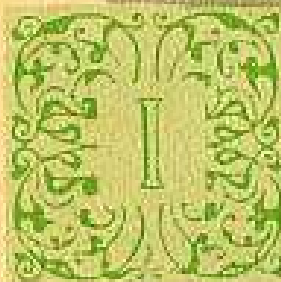


Don't try to adjust FIL BAL on a daily, weekly or monthly check. Adjust it any time you find test targets jitter in the notch. Best way to adjust is to use a test oscilloscope, synchronized with pre-knock, and monitor at J6 on the range unit assembly. If you've still got the jitters in your range mark, then better look for a disconnected shielding somewhere in your receiver cabling.



Adjust with test oscilloscope synchronized with pre-knock, and monitor at J6 on the range unit assembly

## NO PLAYING AROUND



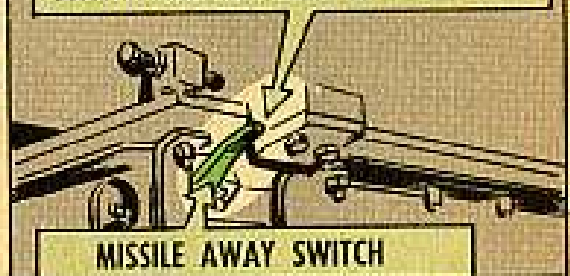
It's a smart Nike-Ajax missileman—the one who doesn't give or take any part of an inch when it comes to adjusting the missile away switch on his launching and handling rails.

The switch gets adjusted for  $\frac{1}{8}$ -in play. The old spec of  $\frac{1}{32}$ - to  $\frac{3}{16}$ -in end play is no more.

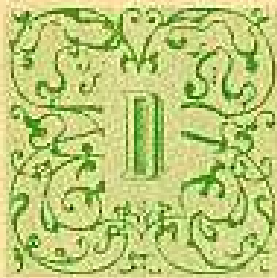
If you go for more than  $\frac{1}{8}$ -in end play, the switch might stay open, which means you won't have a complete missile ready-to-fire circuitry. And if you have less play, it could turn out that after you raise the missile into firing position, the round might settle enough to damage the switch.



$\frac{1}{8}$ " PLAY BETWEEN RIGHT EDGE OF SWITCH AND LEFT EDGE OF CLAMP



MISSILE AWAY SWITCH



## CORRECT CABLE COATING

Dear Half-Mast,

Is there anything new on some kind of protective coating for the interconnecting cables at our Nike site? We just don't go for that strippable plastic stuff.

CWO G. H.

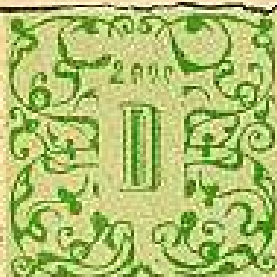
Dear CWO G. H.,

It's been out for a spell now, but I guess you haven't run across it. What you want is Preservative Coating, Rubber. It's used on real or synthetic rubber or rubber-coated Ordnance material. That means fire control cables, tires, hoses and so on.

The preservative coating isn't listed in a supply manual yet but you can get it since you need it to maintain your equipment. FSN 8030-543-7634 gets you a one-gallon can and FSN 8030-543-7636 is worth five gallons. It's an Ordnance item.

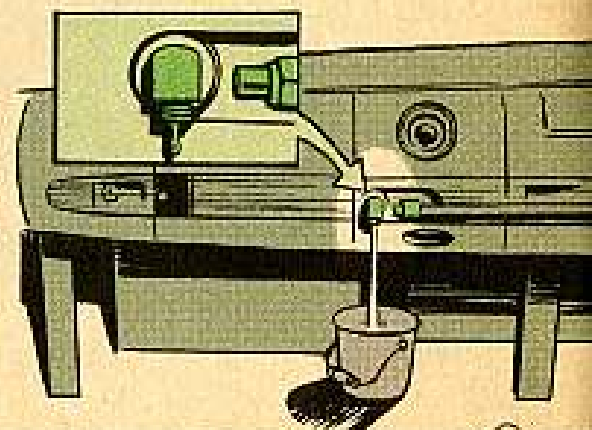


*Half-Mast*



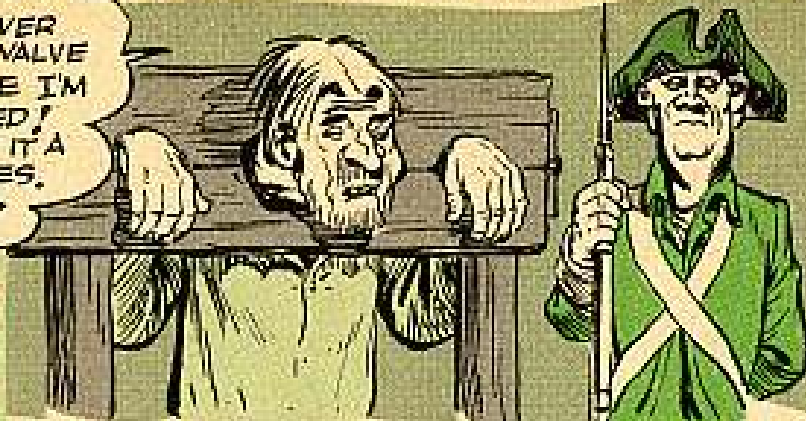
## DRAIN IT FAST

Don't forget—when you assemble and activate a new or rebuilt Nike-Ajax missile, be sure to drain the hydraulic fluid from the accumulator—as outlined in TB Ord 680—to make sure you've got no air on the oil side of the piston. Then refill with hydraulic fluid, either MIL-O-5606 or MPD 2067, depending on the weather.



## ORDNANCE DOES IT

OK OK! I NEVER MESS WITH THE VALVE HEATER 'CAUSE I'M NOT AUTHORIZED! THERE...I SAID IT A THOUSAND TIMES. LEMME OUT!!



When you have trouble with air regulator valve assembly heaters at your Nike-Ajax site, don't tackle the job yourself. Instead, send for Ordnance support personnel—they've got the tools and know-how to do the job.

## END FUSE FUSS

If you Nike-Ajax missilemen have been knocking your heads against your vans trying to figure out how to latch on to some 20-amp, 125-volt fuses.

You can save wear and tear on your noggin by asking Ordnance for the fuses

YE GADS! WHERE DID Y' GET THESE 20-AMP FUSES?



NOTHIN TO IT! SHE MADE 'EM.



under FSN 5920-142-7398—just like you've been doing. You're right—you might get 20-amp, 250-volt fuses instead. But that's OK. The rated voltage can be higher than called for without hurting anything.

Once things line up in supply, you'll be able to get a 20-amp, 125-volt fuse from Ordnance under FSN 5920-280-4429.

## HERC FUSE

FUSE, CARTRIDGE  
6.25 AMP, 32V  
GLASS TU,  
TYPE 4AG,  
3/32 BY 1 1/4  
FSN 5920-142-4795



Dear Half-Mast,

Can you tell me what Nike-Hercules supply manual lists the 6.25AS fuse that fuses the motor tach exciter in the RC van power supply cabinet?

J. H.

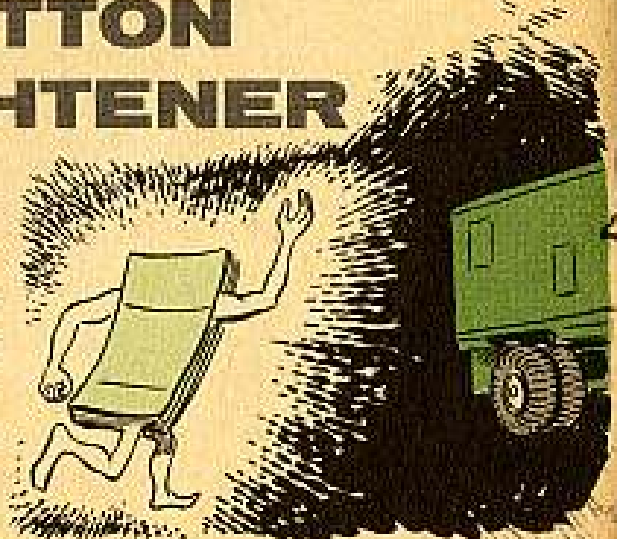
Dear J. H.,

There's been some back-and-forth talk on just what fuse to use, but the Ordnance people are standing pat on their choice. The fuse is listed in Nike-Hercules TM 9-1430-250-10P/5, Appendix III, dated 29 October 1958. It goes by this handle: FUSE, Cartridge: 6.25 amp, 32v, glass tu, type 4AG, 3/32 by 1 1/4, FSN 5920-142-4795. The fuse is an Ordnance item.

*Half-Mast*

## BUTTON BRIGHTENER

Dussh buttons on your missile BC and RC vans gettin' hard to find in the dark? You'll find poop on how Ordnance can make 'em glow again in TB 9-1400-602-35 (3 Nov 58). The TB includes the brightening compound, cleaner and brushes they'll need for the job.





# JOE'S DOPE



On the night of June 10, 1777 a small body of Continentals were detached from George Washington's Retreating Army.

*Their mission was simply to effect whatever delay was possible by harrassing the enemy's flank ... they were never seen or heard from again!! Not, that is, until two weeks ago during exercise "Slambang"...*



HEY, SARGE!  
COME QUICK!

OK OK



AM I READY FOR A  
MEDICAL DISCHARGE  
OR IS IT SIMPLY  
T.V. EYES.  
LOOK!

LEMME  
SEE...  
MMM M...  
MMM...



SHH... DON'T FUP YOUR FLAPS,  
JUNIOR! ... THEY'RE NOTHING BUT  
A INFILTRATION SQUAD WITH  
THE 'INVADER' FORCE... AIN'T  
YOU NEVER HEARD OF  
PSYCHOLOGICAL WARFARE... NOW  
PLAY THIS COOL... I'M GONNA  
PICK UP THE BEAT AND  
SWING WITH IT.



SKIN ME, CATS... WE'RE 'B' COMPANY,  
8th RECON. YOU ARE HEREBY  
CAPTURED! YOU WILL REPORT  
AT ONCE TO THE UMPIRE  
IN AREA 'B'.

zounds, we are  
undone... EZEKIAL.  
ye dolt... your foul  
maintenance  
has doomed us!

?



DIG THIS CRAZY DOORMAN!

DOOREMAN??  
egad...how did ye know my name. rounds...pics are everywhere abroad.

HMM... YOU GUYS'R GONNA NEED HELP MOVIN' THIS PIECE... GOT PUBS?...WE'LL SEE IF WE CAN GETCHA ROLLIN'!

DOWN with KING GEORGE.

YEAH, IT'S A PRETTY CRUMMY JOINT... THE SERVICE IS TERRIBLE.

PUBS? nay, alas! My thirt is great.

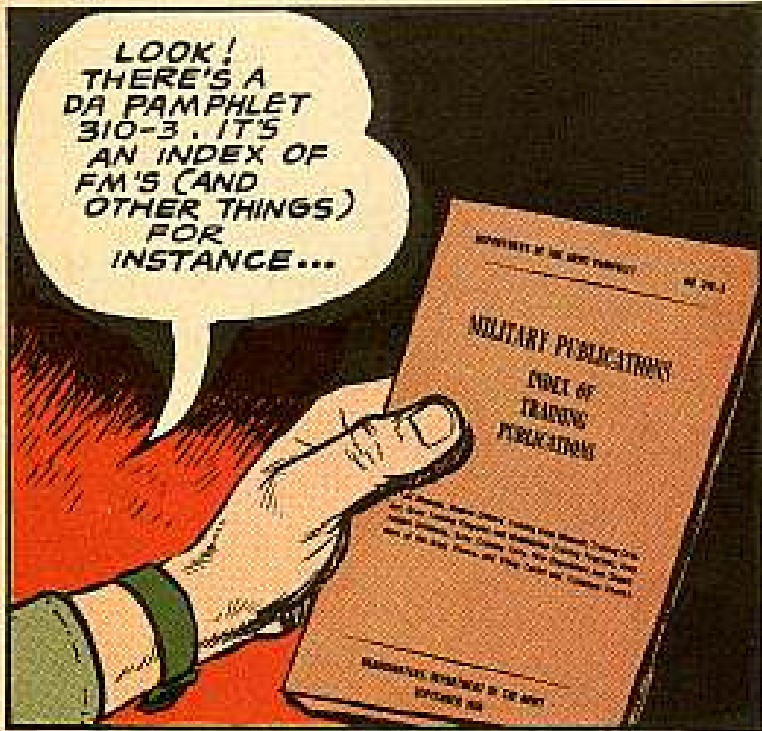


DON'T SNEER AT PUBLICATIONS... THEY MAY NOT SOLVE ALL YOUR PROBLEMS BUT THEY SURE HELP YOU KEEP YOUR EQUIPMENT READY FOR ACTION!



WHETHER IT'S AN FM, TM, TB, MWO, LO OR SM... IF IT APPLIES TO YOUR EQUIPMENT, YOU SHOULD HAVE IT WHERE YOU CAN PUT YOUR HANDS ON IT!

aye. how does one find them?



LOOK! THERE'S A DA PAMPHLET 310-3. IT'S AN INDEX OF FM'S (AND OTHER THINGS) FOR INSTANCE...

DEPARTMENT OF THE ARMY PAMPHLET NO. 310-3  
**MILITARY PUBLICATIONS**  
INDEX OF TRAINING PUBLICATIONS  
This pamphlet lists the titles and numbers of all the training publications, manuals, and pamphlets that are available to the Army. It is intended to help you find the material you need for your training. It is published by the Department of the Army, GPO, Washington, D.C.



FIELD MANUALS FALL INTO THREE GROUPS... TACTICS, TECHNIQUES AND DRILL.

TACTICAL FM'S GIVE YA COMBAT INFO, AND THEY'RE USUALLY WRITTEN FOR A PARTICULAR TOE OUTFIT AND HAVE A BRANCH NO., LIKE FM7-10 WOULD BE FOR INFANTRY... SEE?



Y'R 23 SERIES FM'S COVER WEAPONS... INCLUDES CARE OF THE PIECE... WHAT IT DOES, CREW DRILL (WHO DOES WHAT). THE WHOLE POOP ON OPERATION OF YOUR EQUIPMENT... OTHER FM'S FALL INTO GENERAL CLASSES LIKE "TENTS AND TENT PITCHING" "... BATTLEFIELD ILLUMINATION".



anything on indian fighting?

F-U-N-N-Y ...TRAINING CIRCULARS ARMY TRAINING MOBILIZATION TRAINING PROGRAMS.



keep him talking. EZEKIAL, we'll soon have their secret...!

tell me more. Sergeant.

BEATS ME YOU GUYS DON'T DIG THIS PUB FLUB... WHY, Y'CAN'T OPERATE A MODERN ARMY WITHOUT 'EM.



ye heard that. ISAIAH... 'tis the secret of their army!!

NOW, YOU HAVE Y'R TM OR OPERATOR'S MANUAL... THESE COME WITH YOUR EQUIPMENT.



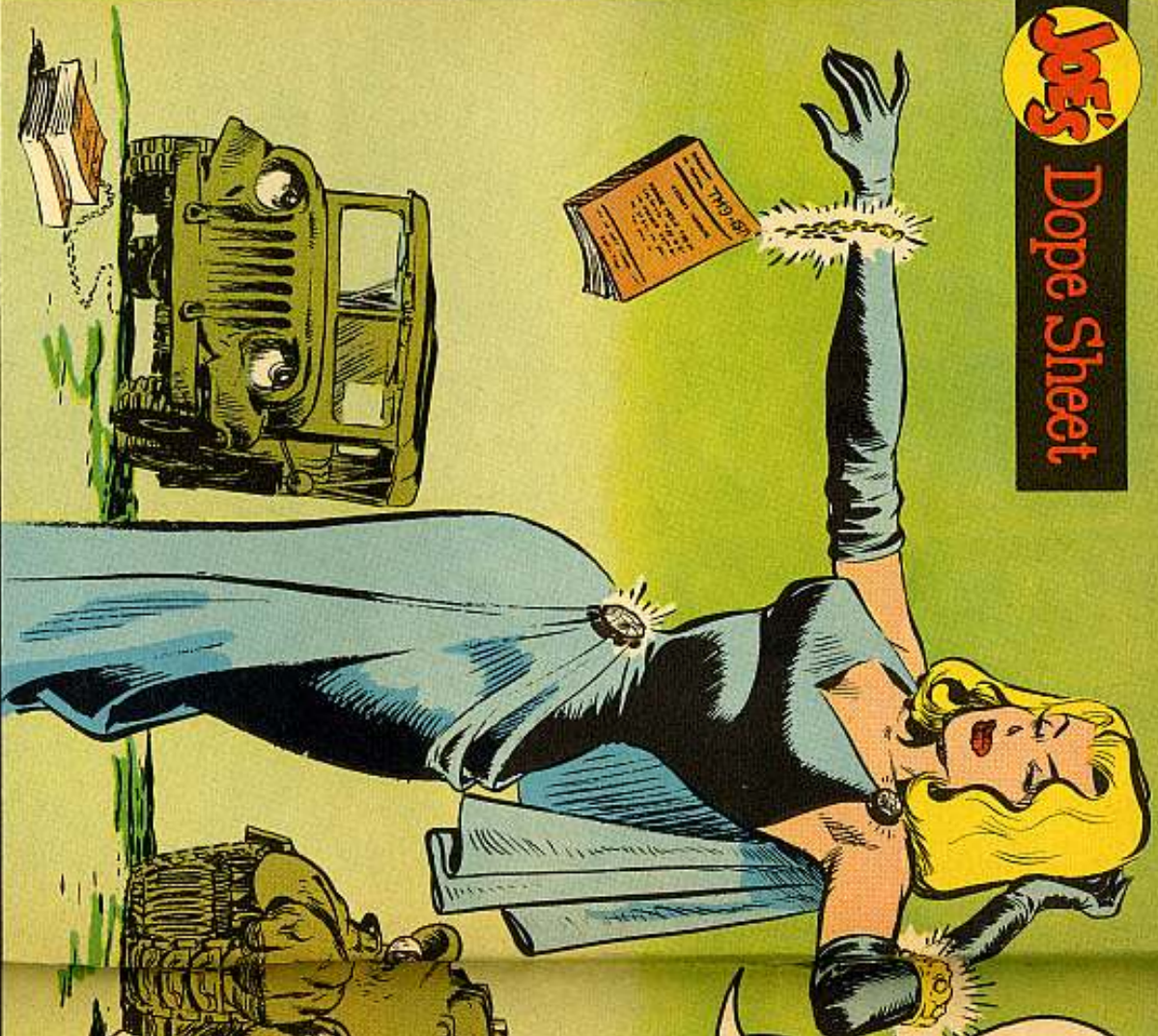
THE TM TELLS HOW TO CARE FOR AND OPERATE THE EQUIPMENT... THERE ARE PLENTY OF OTHER TM'S AVAILABLE.

h-l-s-t... someone must warn General Washington of this new weapon... 'tis a new kind of warfare.

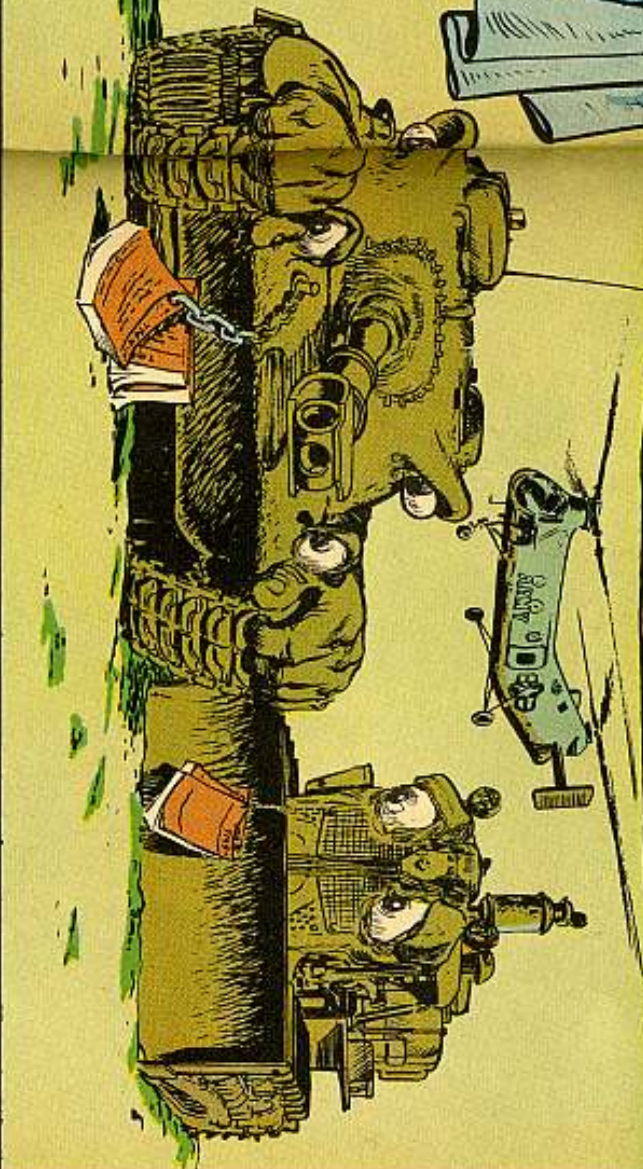
HERE'S A PINUP YOU GUYS OUGHTA TACK UP ON YOUR DAY-ROOM WALL!



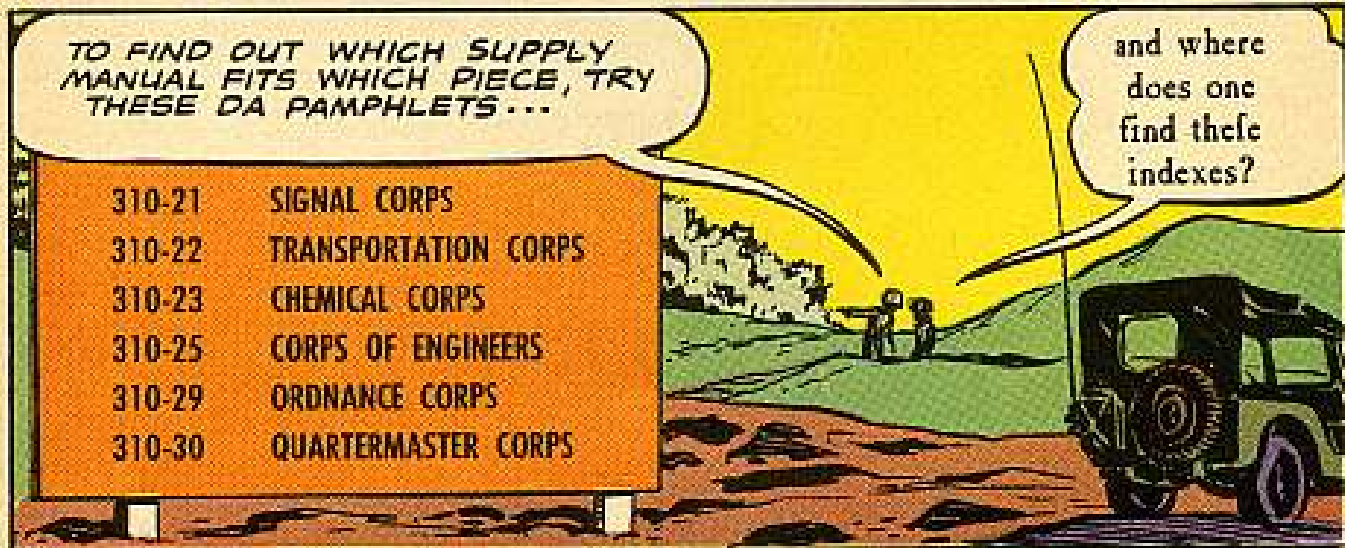
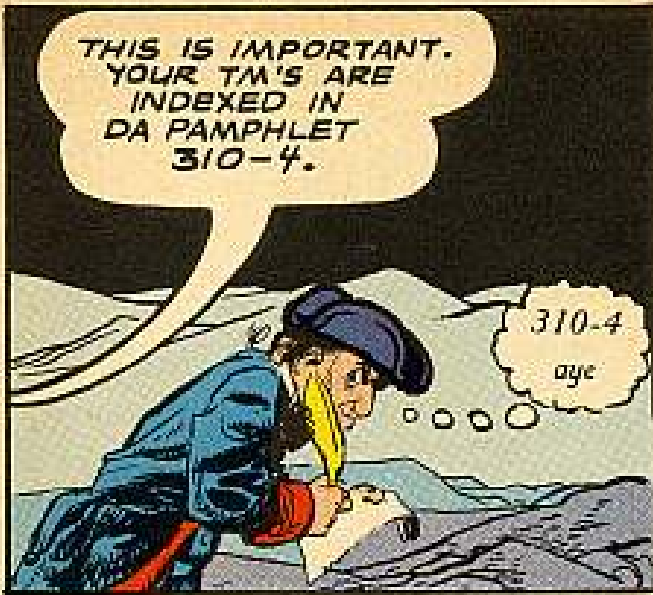
# Joe's Dope Sheet



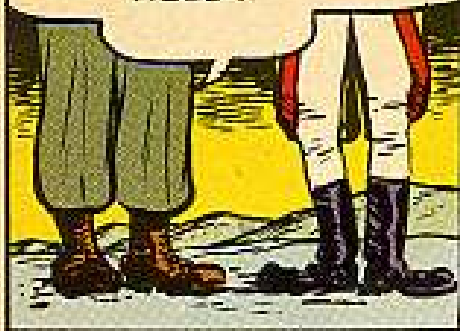
A gun or a Jeep can be quite temperamental—  
Publications are a guy's best friend!  
When you need some tricks that aren't experimental  
On your 'dozer woe—  
To help you know your radio—  
Where missiles fly,  
Their use is high—  
And they're nice when your 'copters descend,  
On highways and byways, in airways and always,  
Publications are a guy's best friend!



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



YOUR LIBRARY, BUB,  
AND WHILE YOU'RE  
THERE, LOOK UP  
ANY PUB YOU  
NEED.



how do I know  
what I need?



YOUR TOE GIVES YOU  
A BREAKDOWN ON TYPE,  
NUMBER OF PIECES, ETC  
...OF THE EQUIPMENT  
YOU CAN HAVE...  
ONCE YOU KNOW THIS,  
YOU CAN FIGURE  
WHICH PUBLICATIONS  
YOU'LL NEED, TOO!

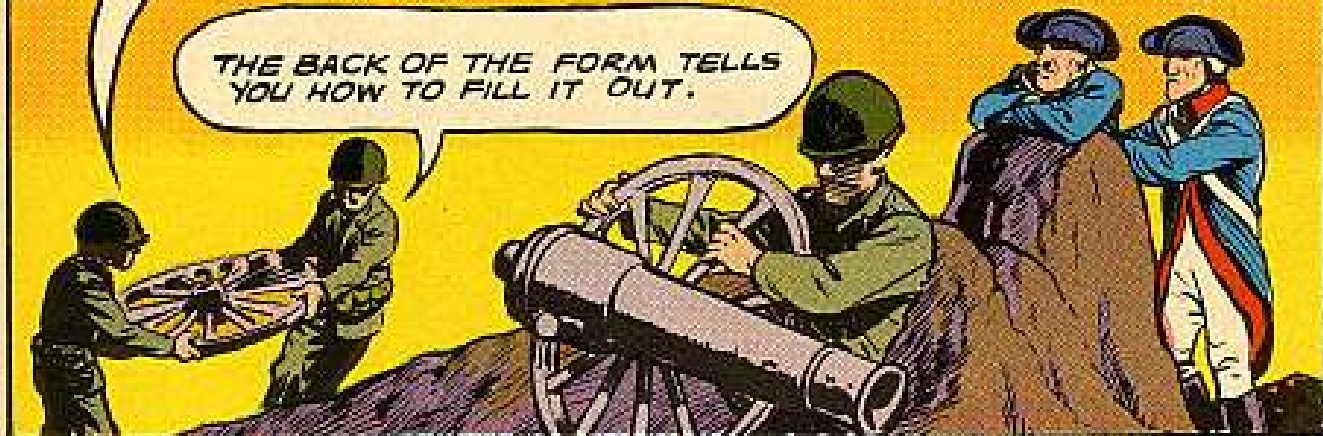


IN CASE YOU DON'T HAVE THE  
PUBS YOU NEED... YOU CAN  
ORDER 'EM BY QUOTING THE  
TOE AS YOUR AUTHORITY...  
AND USE DA FORM IT.

diabolically clever,  
the way this is all  
worked out...

how does  
one secure  
these things  
??

THE BACK OF THE FORM TELLS  
YOU HOW TO FILL IT OUT.



NOW, SAY YOU WANT A  
COMMERCIAL PUB ON AN  
ORDNANCE COMMERCIAL  
VEHICLE. JUST LIST Y'R  
NEEDS ON DA FORM IT AND  
SEND IT TO THE C.O. RARITAN  
ARSENAL, METUCHEN, N.-J.  
ATTN. ORDJR-P.



when he  
fixes the cannon  
we'll shoot 'em  
down and escape  
with this secret  
to General Washington.

THERE,  
BOY,  
SHE'S  
FIXED!





get ready, now, fire when I give the order.

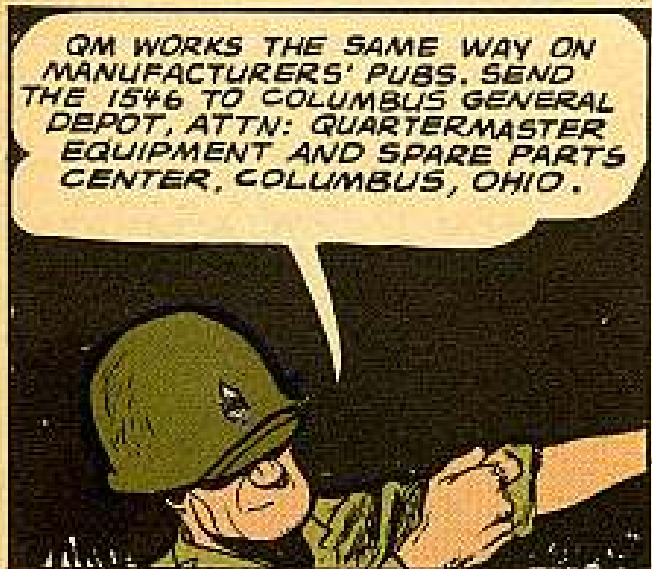
MANUFACTURER'S PUBS ENGINEER STUFF... PARTS BOOK, MAINTENANCE MANUAL, OPERATOR'S MANUAL... YOU GET LIKE... REPAIR PARTS. TURN TO PAGE 52 IN THIS PS FOR DETAILS ON HOW TO GET EM.



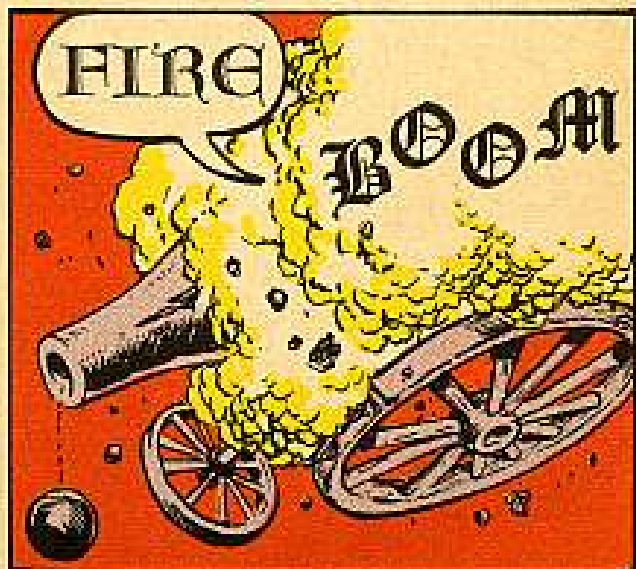
DON'T FORGET TO INCLUDE ALL THE DOPE LIKE STOCK NO., MAKE, MODEL, SERIAL NO... ETC...

helt checkt cannon for cracks. ISALAH?

why? maintenance is not my responsibility!

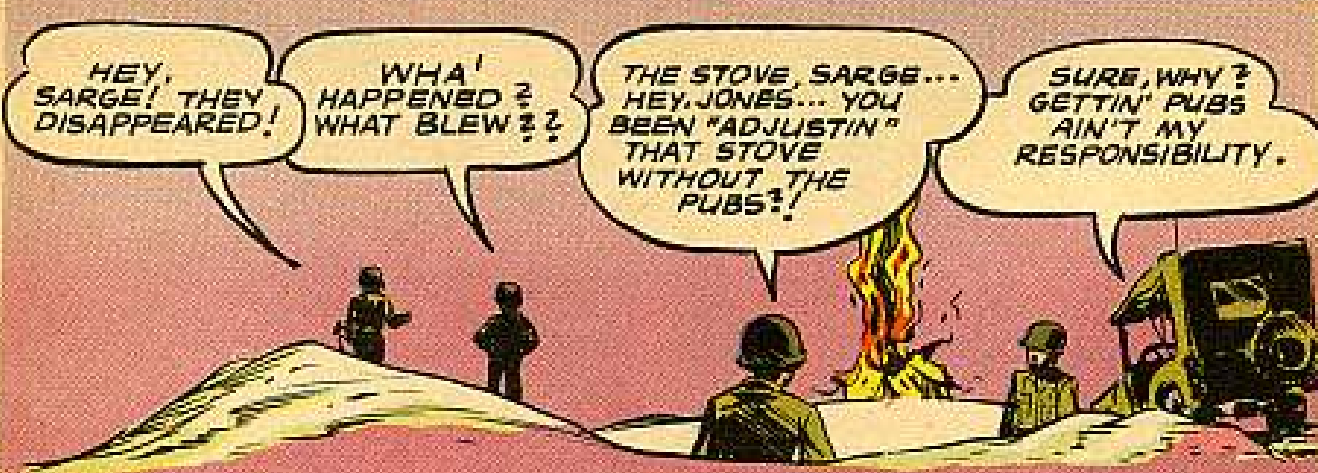


QM WORKS THE SAME WAY ON MANUFACTURERS' PUBS. SEND THE 1546 TO COLUMBUS GENERAL DEPOT, ATTN: QUARTERMASTER EQUIPMENT AND SPARE PARTS CENTER, COLUMBUS, OHIO.



FIRE

BOOM



HEY, SARGE! THEY DISAPPEARED!

WHA! HAPPENED? WHAT BLEW???

THE STOVE, SARGE... HEY, JONES... YOU BEEN "ADJUSTIN" THAT STOVE WITHOUT THE PUBS?!

SURE, WHY? GETTIN' PUBS AIN'T MY RESPONSIBILITY.

The story you have just read was told to us in absolute confidence by the Mess Sergeant of the 246th and he NEVER LIES (except about his Monday hash... which he swears is great but which everybody on this post knows is lousy)... at any rate since the boys woulda got chewed for seeing ghosts, there will be no official report.

## QUESTION AND ANSWER DEPARTMENT



## THEY'VE GOTTA BE THERE

Dear Half-Mast,

Maybe you can settle an age-old question—are we supposed to have TM's right with our equipment at all times? If so, what regulation requires it?

Sgt B. G. C.



Dear Sgt B. G. C.,

There are several publications that pin down that question. I'll point out a few.

On page 57 of AR 310-3 it has this to say about publications: "Publications necessary for the installation, operation, and/or maintenance of equipment will be packaged with and accompany all equipment requiring such publications."

The SNL's and the -10 tech manuals for most of the tech services list the technical manual as a part of the On Vehicle Materiel or On Vehicle Equipment. Some TM's, such as TM 9-2350-213-10, even tell where the TM is to be carried.

Paragraph 4a, AR 700-2300-1, states, "The following publications and forms will be carried on each applicable vehicle in a readily accessible location: (1) Latest issue of pertinent operator's manuals and lubrication orders for the vehicle,



and where applicable, for any mounted equipment."

And the last sentence of par 34b, TM 5-505 states that, "The equipment technical manuals always accompany the equipment to which they pertain and so are available for immediate reference."

The Transportation Corps has a different setup on their technical publications for aircraft. AR 750-1500-2 (6 Mar 57) gives the dope.

And AR 750-8 definitely includes the TM as a part of the SOP for command maintenance inspections.

It all adds up to the fact that operators' TM's should be with the equipment at all times, just like the LO.

*Half-Mast*

## UPSIDE DOWN?

Dear Half-Mast,

*We've got trouble with a rear spring on our M62 wrecker. The first one broke. We slapped in a brand new one, but it was so weak the stabilizing beam rode on it.*

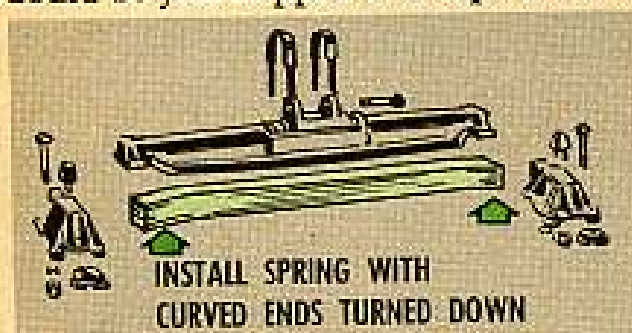
*Then we ordered another, using FSN 2510-277-9786 from the G744-series supply manual. But this one's too weak, too. We put this on a UER, but we wonder if this could be the wrong spring for the M62?*

Lt C. R. L.

Dear Lt C. R. L.,

That's the right one, Lieutenant: Spring, rear assembly . . . FSN 2510-277-9786.

It's just possible the trouble started when you slapped on that new spring. Could be you slapped it on upside down like the picture shows it in Ord 9 SNL



G744 (Jan 54), Fig 16-4.

This pix shows the curved ends of the spring turned up, but the right way is down just like the note in Change 2 (26 July 57) to TM 9-8028 says.

When the ends are turned down and the truck's unloaded, there should be about 1 1/8-in opening between the spring and the stabilizer. That keeps one from riding on the other.

Like most curves, the ones on these springs should be approached with caution, so check to see that they're turned down when you attach 'em to the brackets on your M62.

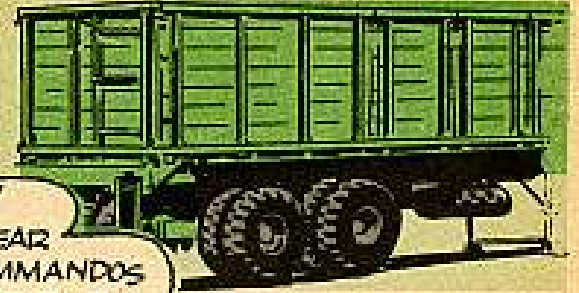
*Half-Mast*

# PARTS SWITCH

IN CONCLUSION,  
YOU WILL RECEIVE  
YOUR SNL WHEN  
THE PROPER  
CHANGES HAVE  
BEEN MADE...VERY  
TRULY YOURS,  
BEN FRANKLIN.



COISES!  
THEM REAR  
AREA COMMANDOS  
HAVE DONE IT  
AGAIN.



Dear Half-Mast,

Is there a parts book for the semi-trailer, cargo, 4 wheel, 12-ton, Model M127A1?

The data plate calls for SNL G750, but the latest copy available doesn't cover this trailer.

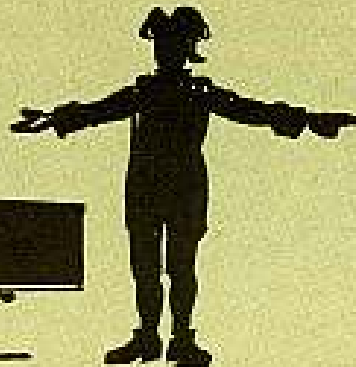
CWO A. B. U.

Dear CWO A. B. U.,

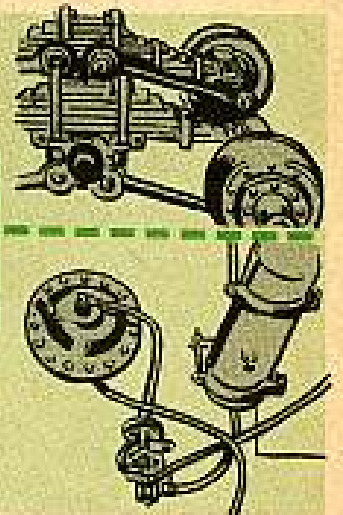
You're right . . . there've been some changes made in the M127A1 trailer that don't show up in the latest SNL's for the M127 and M127A1.

## SNL'S FOR M127A1 TRAILER

FOR EVERYTHING BUT  
THE AXLE AND BRAKES  
USE SNL G750



FOR AXLE  
AND BRAKES  
USE SNL  
G802



Biggest difference is in the axle and brake systems. The M127 has the Timken axle and air brakes, while the M127A1 has the Ordnance standard axle and air-over-hydraulic brakes.

The M127A1's new axle and brake systems are the same as those used in the M270A1 semi-trailers.

So, until the G750 SNL's are revised to include the new axle and brake systems in the M127A1, here's the way to find the parts you need.

For everything except the axle and brake systems of the M127A1, use SNL G750. But when you need parts for brake and axle systems, switch to SNL G802, which covers these systems in both the M270A1 and the M127A1.

This should keep your trailers moving until publications catch up with the latest info.

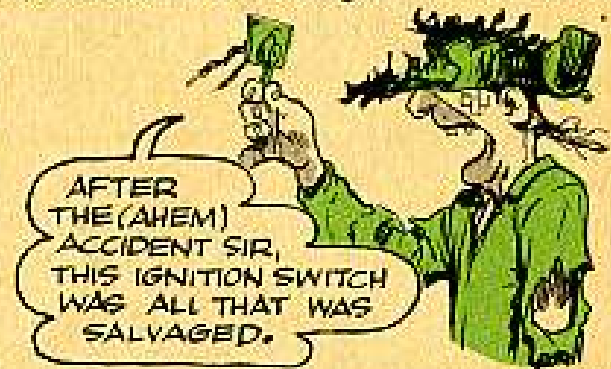
*Half-Mast*

# TRICKLE, TRICKLE-POW!!!

Dear Half-Mast,

I'm real puzzled. At times, some of our G749-series 2½-ton truck drivers leave their trucks' ignitions on—by accident, of course. With the ignition on, the electric fuel pump keeps working.

Oddly enough, we find the oil diluted in some vehicles only. What's even more strange is that on those we find with diluted oil, a breakdown of the carburetor shows that most of the needle valves are seated right and aren't damaged. On others, of course, the needle valves are either damaged or aren't seated right. These we expect to let fuel through. But what about the others?



CWO W. J. M.

Dear CWO W. J. M.,

You pinpointed it, awright—the heart of the matter is with the carburetor's needle valve. With the pump pumping, like she'll do with the ignition on, and a faulty or improperly seated needle valve, gas can drain down into the cylinders and crankcase.

But even with a perfectly seated needle valve, it can still happen, because the needle valve does not make a perfect seal. Just to add more puddin' to the saucepan, with either a perfect or an imperfect needle valve, this whole mess doesn't necessarily have to happen. In many cases, even though you do keep the ignition on, as you found out, you may not get gas into the crankcase. It all depends on luck . . . but it boils down to this:

You can be sure you won't get raw gas in the cylinders and crankcase if you turn the ignition OFF, but leaving it ON leaves you in doubt.

Luck shouldn't be part of this game. Liquid gas trickling past open valves and filling the cylinders can ruin a truck's engine by setting it up for hydrostatic lock—not to mention diluting the oil.

Besides opening the door to a crankcase explosion, diluted oil doesn't do a good lube job—which can lead to scoring connecting rod bearings, cylinder walls and pistons.

So, impress on your drivers the seriousness of leaving the ignition ON when the engine's not running. It's a little late to learn this after a few crankcases blow up under them.

# WEIGHT WORRY

Dear Half-Mast,

We're a bit confused as to what weight oil should be in the engine crankcase of the M47 and M48 medium tanks for temperatures between 40°F and -10°F. The manuals TM 9-7012 (Aug 54) and TM 9-718A (Jan 52) say OE 10. But



the lube orders, LO 9-7012 (10 Dec 54) and LO 9-7010 (14 May 56) say OE 30. What's the straight scoop?

Sgt D. B.

Dear Sgt D. B.,

There's one rule to remember in these cases which will lead you out of the wilderness: The LO always has it over the tech manual.

LO 9-7022 (23 Sept 57) for the M48A2 Tank  
 LO 9-7012 (7 Aug 57) for the other M48 Series Tanks  
 LO 9-2350-200-10 (23 July 58) for the M47 Tank  
 LO 9-7022 (23 Sept 57) for the M48A2 tank

ALL HAVE A NOTE 2 SHOWING FOUR TEMPERATURE RANGES YOU MIGHT WANT TO KEEP IN MIND. THEY ARE:

THESE PUBS:

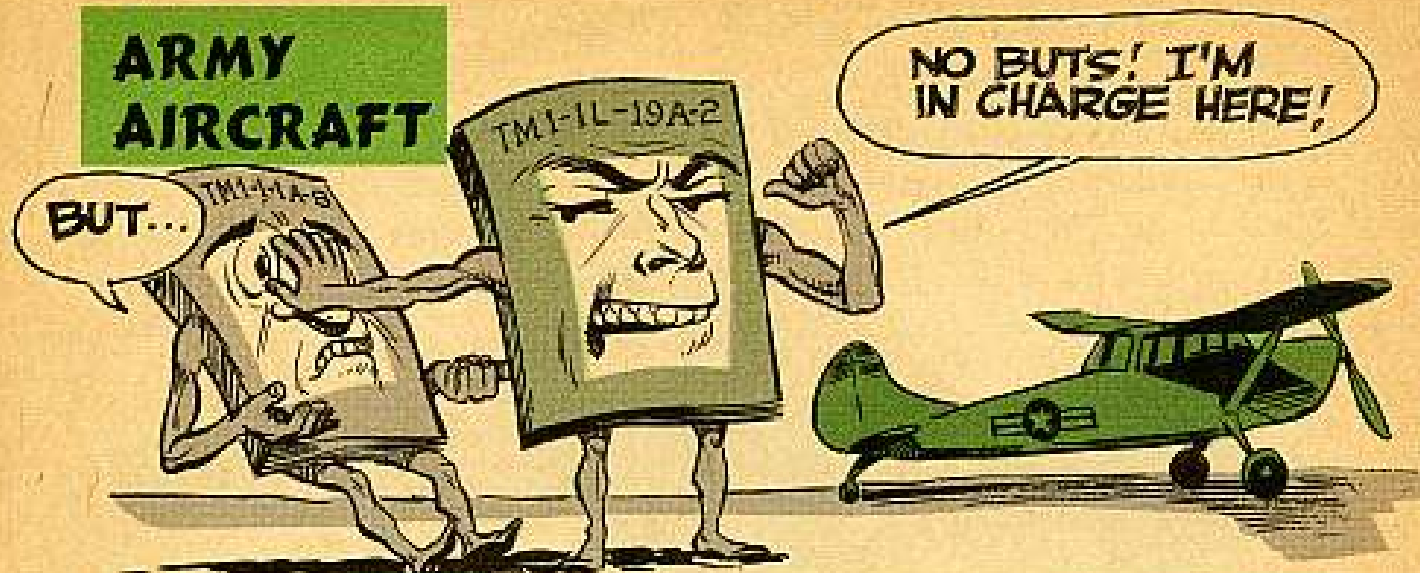
ABOVE 32° .....	USE OE 50
50° to 10° .....	USE OE 30
20° to -10° .....	USE OE 10
0° to -65° .....	USE OES

Now, this doesn't mean if there's a sudden drop or rise in weather due to a freak spell, you rush out and change oil. Some more good advice to follow is on page 142 of the M48A2 tank manual (TM 9-7022). "Change the grade of lubricants whenever weather forecast data indicate that air temperature will be consistently in the next higher or lower temperature range or when sluggish starting caused by lubricant thickening occurs."

So stick to what the latest LO's say. 'Cause your LO is to your manual like a royal flush is to four of a kind... and there's no deuces wild here, either. Unless, o'course, you get the word from an official source to do otherwise.

*Half-Mast*

## ARMY AIRCRAFT



## RANKING MANUAL

Dear Half-Mast,

Who's in charge here? TM 1-1-1A-8, December '54 shows one way to safety a turnbuckle. TM 1-1L-19A-2, para 2-53A, revised 1 Dec. '58, shows a different way. We've been complying with the A/C-2, but we've been getting gigged. Whaaa?

SFC T.S.D.

Dear SFC T.S.D.,

You did right. The TM 1-1-1A-8 is a general TM for all aircraft. While TM 1-1L-19A-2 gives you specific instructions for the Bird Dog (L-19A). Naturally when a general TM varies from the Aircraft TM, you follow the one for your particular aircraft.

*Half-Mast*

## BLADE BATH



Seems some Chockraw hostlers are still using steam jennys or solvent to clean their rotor blades. Please to quit it.

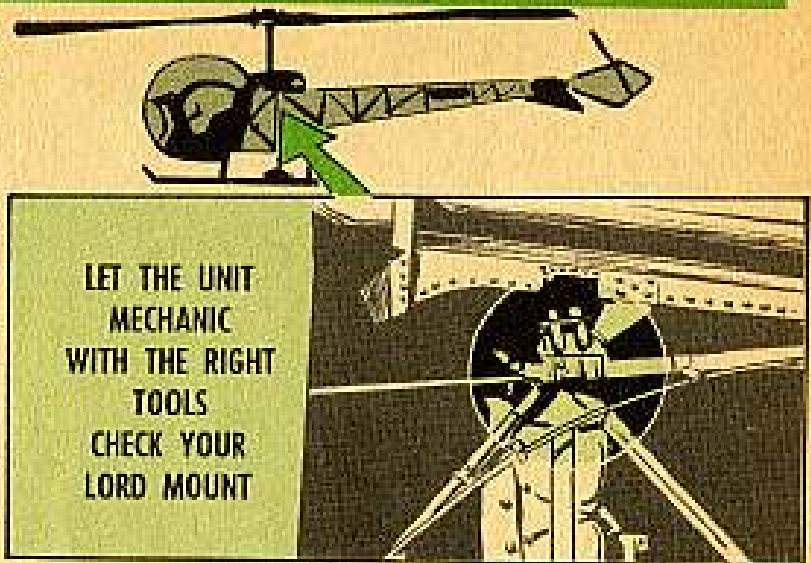
TM 1-1H-34A-2, Section 2, para 2-302 lays down the law! Mild soap only. Solvents can loosen the bonding of the blades.

## DON'T GO POKING ABOUT

If you think you've found a broken Lord mount on your helicopter engines (Sioux H-13's), that's past the limits of serviceability, don't poke a pocket knife blade or a pencil point into it to find out. Good mounts have been shoved over the line by people doing this.

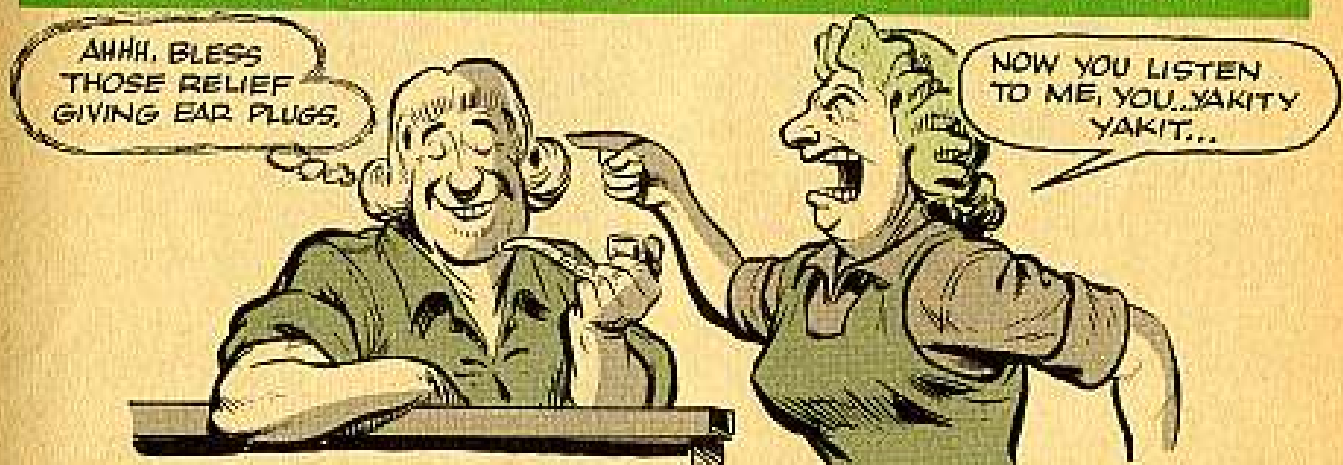
Get hold of the unit mechanic and let him check it with the right tools for you.

You can find the correct dope for inspecting, replacing, or repairing in TM 1-1H-13C-2 (June 58), Section IV. It's in paragraphs 4-42, 4-43, 4-44, 4-45 and 4-46...found on pages 4-13, 4-14 and 4-16.



LET THE UNIT  
MECHANIC  
WITH THE RIGHT  
TOOLS  
CHECK YOUR  
LORD MOUNT

## PLUG THE HOLES IN YOUR HEAD!



Oh yes you do have holes in your head—your ears. And if you leave 'em open regularly when working in high noise levels, one of these days you may find your hearing leaving you. And nothing can then be done about it, the harm has already been done.

Which is why the medics will be only too happy to supply you with ear plugs if you are a pilot, crew chief, mechanic or anyone else who has to do his work in real noisy conditions. Because prevention is the only cure for hearing loss due to exposure to noise, and the only time for it is before you notice any trouble.

So get your plugs as soon as possible, and wear them regularly. Just as a side bonus, you'll find you are more comfortable and less tired at the end of the day. After all, there's nothing restful about the fluff fluff fluff of the rotor blades, the banshee howl of a helicopter transmission, or the whine of a prop at high RPM. Now is there?

## SHIOWS TAIL ROTOR INSPECTION



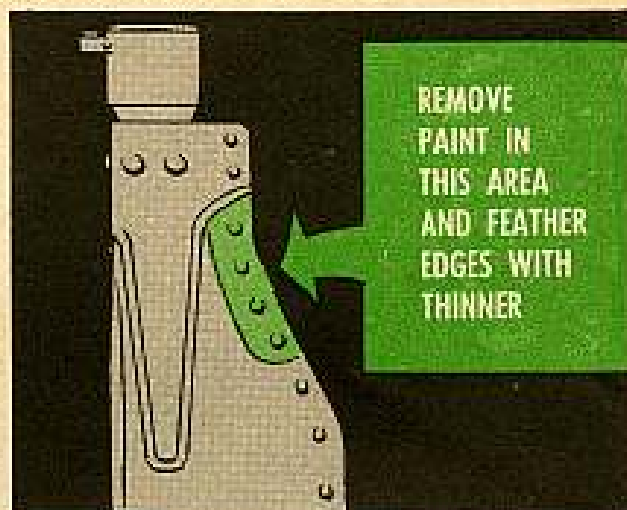
Like it tells you in TSMC message EH-13-01-03080 there's a new twist to your tail rotor inspection on your Sioux (H-13's) with the metal rotor blades.

With lacquer thinner only, no steel wool, no sandpaper, no paint stripper, please, you remove the paint from both sides of the trailing edge of the blades. Remove it from rivet three to a little past rivet six, counting outward from the blade root. Feather the edges of the remaining paint, but only with the thinner.

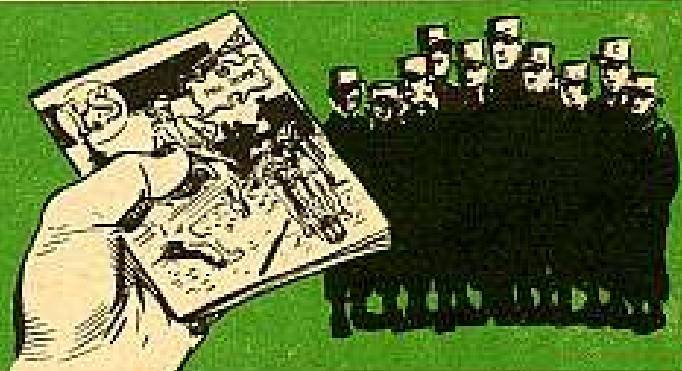
This bare area must be inspected daily for chordwise cracks, and naturally you replace any cracked blades before flight.

You can protect the bare areas from corrosion with a thin coat of clear lacquer, cosmoline or grease.

Any defective blades you find, send a UER at once, and save the blade—it'll go back to the factory for research.



**EACH COPY OF  
PS  
IS MEANT FOR  
10 READERS.  
PASS IT ALONG!**



## DON'T BE AN IRON MAN!

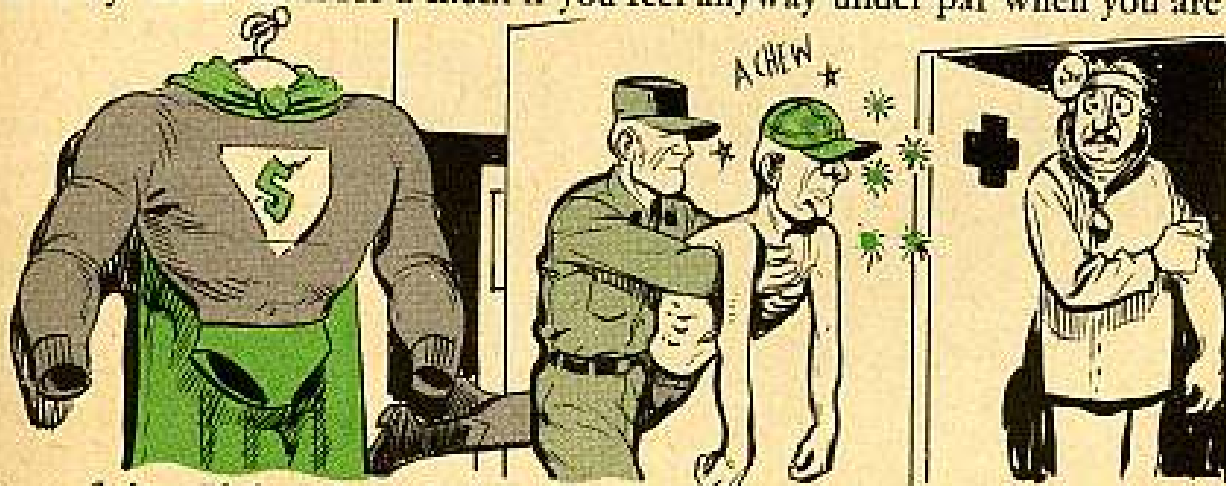
Pilots, of course, have been carefully taught the importance of watching their health like a hawk when flying. But not all the rest of us are hep to the problems.

So you might assume that if you are well enough to come to duty you are also well enough to go flying. 'Tain't noways the case. The changes in atmospheric pressure and the forces imposed on you in flying can sometimes give you real trouble when you'd be pretty much OK if you'd stayed on the ground.

A case in point is the mechanic who flew as a crew member when he had a cold. He knew he was a bit stuffed up, but he didn't realize that his stuffed head had blocked the little Eustachian tubes that connect the middle ears to his throat—they normally serve to equalize the pressure on both sides of his eardrums. So, he went flying, and so, he suffered ruptured eardrums.



You never know just what side effects flying may have on your minor ailments. The flight surgeon and his people are the ones best qualified to decide when you're fit to fly. Go to them for a check if you feel anyway under par when you are due



to go flying. If there is no danger, they'll clear you to fly, and if they should tell you to stay home, it may save you serious and painful complications.



# ENGINEER EQUIPMENT INVENTORY

IF YOU'RE HAVIN' TROUBLE PULLING YOUR ENGINEER EQUIPMENT INVENTORY LIKE IT SAYS IN AR 711-541 YOU CAN RELAX NOW. MORE THAN ONE QUESTION HAS POPPED UP ON THE PROGRAM BUT HERE'S THE LATEST DOPE.

## QUESTION:

AR 711-541 keeps saying only those items listed in SB 5-70 are to be inventoried and reported on DA Form 5-73. What about those items like air compressors and generators that are not listed by stock number, make and model in SB 5-70? Do you include these?



DA Form 5-73 is titled "Record of Engineer Equipment Requiring Repair Parts Support." But Part II of SB 5-70 lists a number of "Critical tactical items not requiring repair parts." Do we fill out a 5-73 on these items, such as the pneumatic tool and compressor outfits, bridge sets and pre-fabricated buildings?

## ANSWER:

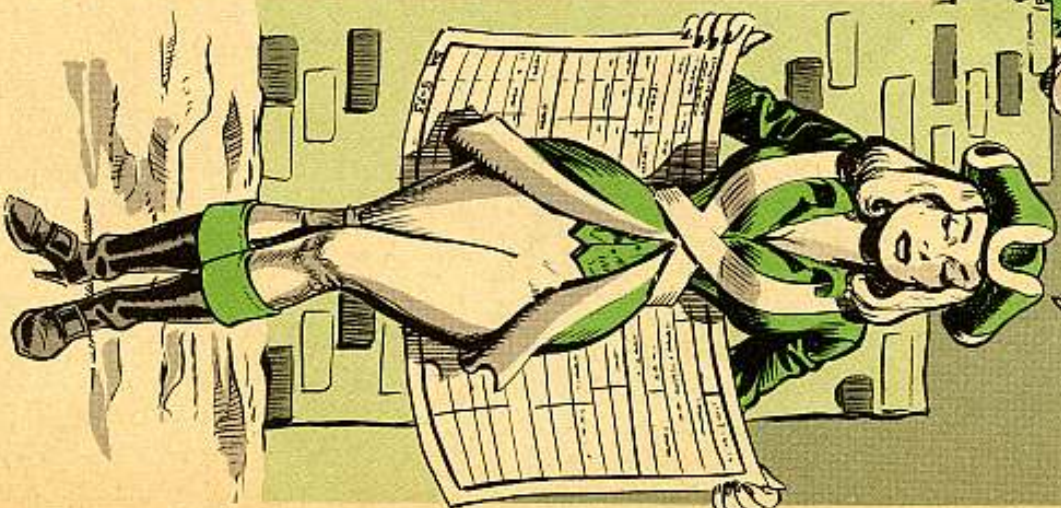
Yes. The Engineers want all items in SB 5-70 listed, plus any similar items. Change No. 1 to SB 5-70 (3 Feb 59) says the inventory program will include "all equipments listed herein and similar type equipments, irrespective of location."



Yes. The AR makes no exceptions. The SB also covers the equipment identification plate program, and in some cases this project is not the same as the inventory program. Change No. 1 to SB 5-70 says those items listed in Part II will be excluded from the identification plate program. Which means they'll still be part of the inventory and will get a DA Form 5-73.



IN HERE'S THE FORM THAT GOES WITH IT.



## QUESTION:



Para 4d(10) of the AR says Engineer components of Engineer or other technical services sets, kits or outfits will be reported by DA Form 5-73. Is this to be done by sets, components or what?

## ANSWER:



All Engineer sets, kits or outfits are to be reported on a 5-73 as a set, kit or outfit. Then, each and every Engineer item (as listed in SB5-70 and similar items not listed in the SB) within the set is to be reported on a separate 5-73. This is done like so:

Blocks 1, 3, 6 and 10 are to be filled in.

RECORD OF ENGINEER EQUIPMENT SHOWING REPAIR PARTS SUPPORT (AR 112-41)		REGISTRATION AND INSTALLATION 356 th Engr Water Sup Co, Fort Belvoir, Va.			REPORTS OUTSTANDING (AR 112-41)
BASIC ITEM IDENTIFICATION (AR 112-41)					
1. STOCK NUMBER (11-12) 4610-190-0302	2. SERIAL NUMBER (13-17)	3. POWERING COMMAND (18-19) CODE 117	4. ITEM DESCRIPTION (14-20) Water purification equipment set; diatomite filter, 3000 gal per hr.		
ADDITIONAL ITEM DESCRIPTION (AR 112-41)					
7. EQUIPMENT STATUS (21) DEPOT STOCK (22) QUOTE 2	8. U.S. REGISTRATION NO. (23-27)	9. YEAR OF MANUFACTURE (28-29)	10. U.S. INSTALLATION OR DEPOT CODE (30-31) 952AK		
15. ENGINEER OPERATING ENGINE (AR 112-41)			16. ENGINEER PRIME MOVER ENGINE (AR 112-41)		
1. MAKE (32-35)	2. MODEL (36-37)	3. MAKE (38-41)	4. MODEL (42-43)	5. FUEL (44-45) <input type="checkbox"/> DIESEL CODE 2 <input type="checkbox"/> GASOLINE CODE 3	
6. SERIAL, TYPE OR SPEC. NO. (46-47)	7. FUEL (48-49) <input type="checkbox"/> DIESEL CODE 2 <input type="checkbox"/> GASOLINE CODE 3	8. SERIAL, TYPE OR SPEC. NO. (50-51)	9. FUEL (52-53) <input type="checkbox"/> DIESEL CODE 2 <input type="checkbox"/> GASOLINE CODE 3	10. CAPACITY (54-55)	
18. ACCESSORY POWER OR POWERED EQUIPMENT (AR 112-41)					
1. MAKE (56-59)	2. MODEL (60-61)	3. SERIAL NO. (62-63)	4. ITEM DESCRIPTION (64-65)	5. CAPACITY (66-67)	
19. REMARKS					
Blocks #2, 4, 5, 8, & 9 - Not applicable					
20. APPLICABLE OPERATING AND MAINTENANCE PUBLICATIONS					
TECH MANUALS PARTS LIST TYPE Y, B OR R	LUB OILS	MOD WORK ORDERS	TECH BULLETINS	OTHER	
				SM 5-4-4940-811	
21. TECHNICAL UNIT BY:					22. DATE:

In Block 19 you note that info required by Blocks 2, 4, 5, 8 and 9 are not applicable

In Block 20 you indicate the applicable DA Supply Manual 5-series in the "Other" column.

Engineer equipment (as listed in SB 5-70 and similar items) that is included in other technical services sets, kits or outfits is to be reported as separate items on 5-73's like so:

BLOCK 1 - PART NUMBER		BLOCK 2 - PART NAME		BLOCK 3 - PART QUANTITY	
1500-000-000		ENGINEER EQUIPMENT		1	
BLOCK 4 - PART DESCRIPTION		BLOCK 5 - PART STOCK NUMBER		BLOCK 6 - PART UNIT OF MEASURE	
ENGINEER EQUIPMENT		1500-000-000		EA	
BLOCK 7 - PART SOURCE		BLOCK 8 - PART STATUS		BLOCK 9 - PART STATUS	
1500-000-000		1500-000-000		1500-000-000	
BLOCK 10 - PART STATUS		BLOCK 11 - PART STATUS		BLOCK 12 - PART STATUS	
1500-000-000		1500-000-000		1500-000-000	
BLOCK 13 - PART STATUS		BLOCK 14 - PART STATUS		BLOCK 15 - PART STATUS	
1500-000-000		1500-000-000		1500-000-000	
BLOCK 16 - PART STATUS		BLOCK 17 - PART STATUS		BLOCK 18 - PART STATUS	
1500-000-000		1500-000-000		1500-000-000	
BLOCK 19 - PART STATUS		BLOCK 20 - PART STATUS		BLOCK 21 - PART STATUS	
1500-000-000		1500-000-000		1500-000-000	
BLOCK 22 - PART STATUS		BLOCK 23 - PART STATUS		BLOCK 24 - PART STATUS	
1500-000-000		1500-000-000		1500-000-000	

You fill in Blocks 1 through 17 as applicable.

In Block 19 you note that the item of equipment is a part of a set and specify the technical service set number . . . such as SNL 6-J series, etc.

BLOCK 19 - PART STATUS		BLOCK 20 - PART STATUS	
Component of Set USD 4 STD J-7, Section 1 (PSR 2180-745-0445)			
BLOCK 21 - PART STATUS		BLOCK 22 - PART STATUS	
5-5452-1			
Kentucky		4 Mar 1959	

In Block 20 you indicate the applicable publications.

## QUESTION:



Para 10ah of the AR says that when filling out item 15 to list only "attachments for equipment as identified by item description and Federal Stock Number of the basic equipment." This appears to mean that attachments which are issued with the basic piece of equipment, and are included as part of the nomenclature and description of the basic equipment, are the only ones to be listed in item 15. But in PS 75 you show a boom and fairlead listed as attachments for the crane shovel. These are separate items, with their own stock numbers, and they're listed in SB 5-70. According to the AR these should not be listed in item 15 as attachments. Did PS boot one on this?

## ANSWER:



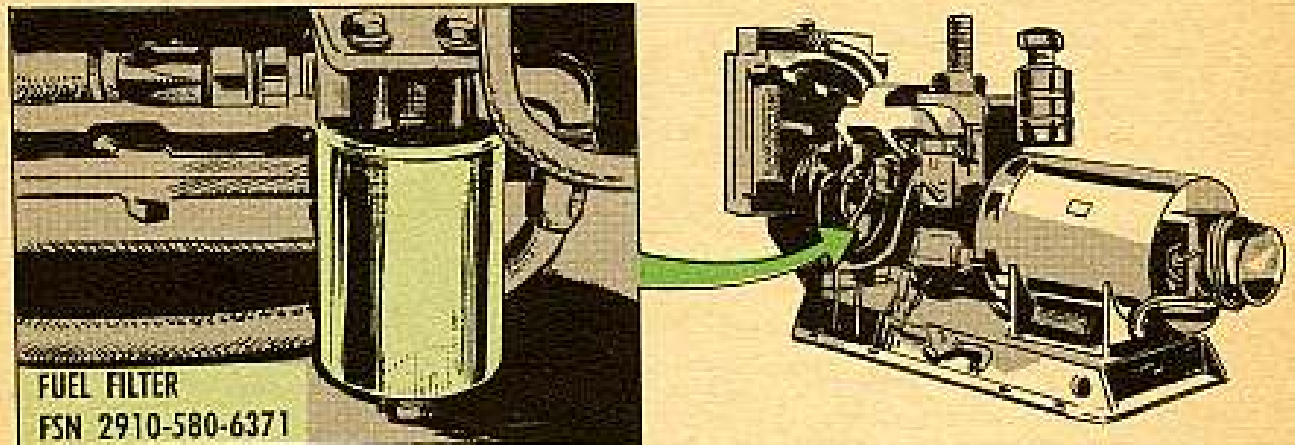
Yes, PS booted one in listing those items as attachments. I have been pulling my hair out ever since. Item 15 is only for those attachments which are issued with the major item and are included under the same stock number as the major item. That boom and fairlead are separate items and should be reported on their own 5-73's.



FOLLOW THROUGH THIS WAY-AND YOUR INVENTORY WILL BE IN GOOD SHAPE.

## GOT YOUR FILTER?

You guys with the model NHRSGA-601-150, 150 KW Cummins generator, engine serial numbers 160820 through 170846, can now get the right fuel filter for your set through regular Engineer supply channels or by local purchase. Make a note of this in your copy of PS 73, page 59.



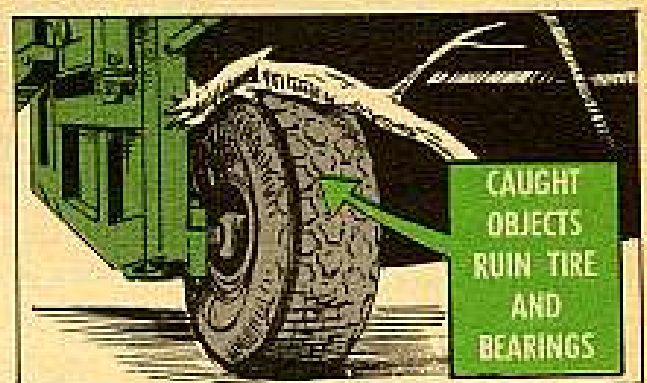
The filter you want comes under FSN 2910-580-6371, Federal Supply Code 73370 (Fram Corp), Part Nr. C1106PL, Element, or Code 15434 (Cummins Engine Co), Part Nr. BM33761. You don't use the filter listed in ENG 7, 8, & 9-5274.

## A LOOK'LL PAY OFF

Saw a tractor operator looking mighty sad the other day. His pride was hurtin'—and he was thinking maybe his wallet would be, too.

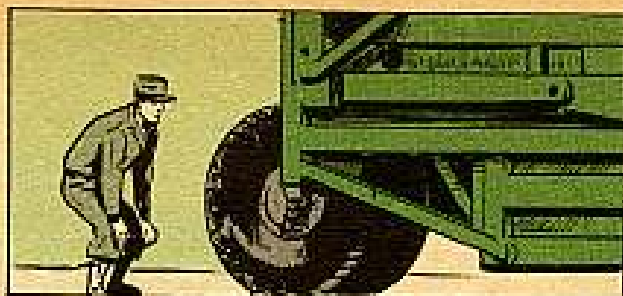
The guy's an old hand. He can handle a tractor with ease, and put it through its paces without working up a sweat. Seems he just got carried away—and it carried away the price of a wheel bearing and a tire on the scraper he was biting payload chunks of earth with.

While clearing an area for a rifle range, he let a small tree and some underbrush get caught between the tire and the scraper bowl. Don't know exactly how long it was wedged there—could have been most of the morning. Fact is, he didn't



notice it. And the wheel bearing and the tire wore out before the tree did.

You guys working pans behind tractors might keep this in mind. Take a walk around your rig when you take a break and give it a look-see—especially when there's a chance some junk could get caught somewhere in the innards and give your equipment a rough time.



## NOT TOO TIGHT

Tight? Sure, you want to make the hood capscrews on your IHC TD-18 tractor tight, but you don't want to over-torque 'em so there's no play in the hood.

The panels are slotted to give with the vibration of your tractor when you're operating 'er. If the engine hood is fastened real tight to the radiator guard so there's no movement, you're going to get extra wear and tear on the exhaust pipe and the hydraulic tank filler neck.



Once you've got the bolts tight—that's fine. Making with the extra muscles will only shear the heads off . . . or stop the movement of the hood.

In either case, you've got trouble.

## FREE RELAYS

Got troubles with the two-second time relay (Part Nr. CJ-1577-XBXMG2) on your Hollingsworth 45 KW generators, Model JHMX-45B, serial numbers 1 through 237?

Then you want to fill out a UER pronto and rush it right off to the Commanding General, Engineer Maintenance Center, P.O. Box 119, Columbus 16, Ohio, Attn: EMCJX.

They'll see you get an improved relay for free.

MISSING ENGINEER PUBS?  
SOLVE YOUR PROBLEM WITH...

## MANUFACTURERS' PUBLICATIONS

TRYING TO MAKE LIKE PICK TRACY OR SHERLOCK HOLMES IN TRACKING DOWN MANUALS AND PUBS FOR YOUR ENGINEER EQUIPMENT? CALL OFF YOUR BLOODHOUNDS AND ANGLE YOUR MAGNIFYING GLASS IN THIS DIRECTION... HERE'RE SOME GOOD CLUES FOR YOU.



You've checked DA Pamphlets 310-4, Index of Technical Publications, and 310-25, Index of Supply Publications, and you say there's no record of a TM, TB, IO, ENG 7 & 8... or any kind of a pub for your rig.

Course, if your pubs were listed in either of the indexes, then your detecting bit would have been over. All you'd have to do then would be to send through a requisition on a DA Form 17 like it says in AR 310-1... same as you would for any Department of the Army pub.

### LISTED PUBLICATIONS

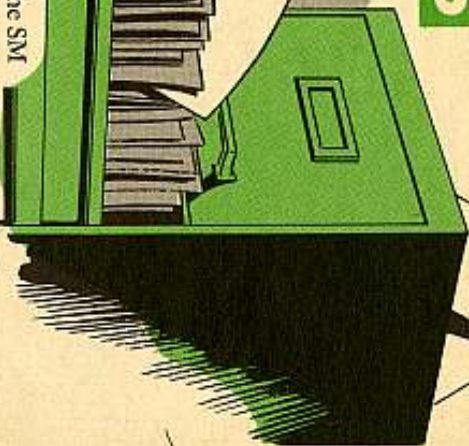
NOW, COULD BE YOUR EQUIPMENT'S BRAND NEW AND HAS BEATEN THE PUBS TO THE FIELD... OR THERE'S NOT ENOUGH OF 'EM AROUND TO RATE A MANUAL YET.



With no DA pubs available, you want to be on the lookout for a manufacturer's manual. So, you check SB 5-100, Basic Issue Items List. FSC Group 76 covers publications.



## MANUFACTURERS' PUBLICATIONS



If the publication you want is listed in the SM—then your mystery's solved. There's no sweat in getting it. You just fill out DA Form 1546 and send it through regular Engineer supply channels... the same way you do for stocked type repair parts. One thing to keep in mind—if you want more than 10 each of a pub, you have to include a statement of justification.

### NON-LISTED PUBS

NOW, JUST IN CASE A SEARCH OF THE SB FAILS TO BRING ANY MANUFACTURERS' MANUALS TO LIGHT, THERE'S NO NEED FOR YOU TO FEEL YOU'RE UP A BLIND ALLEY. YOU'VE STILL GOT A COUPLE OF OUTS. YOU REQUISITION PUBS NOT LISTED IN SB 5-100 THE SAME WAY YOU ORDER NON-STOCKED REPAIR PARTS.



You fill out the requisition (DA Form 1546) just like you do for stocked manufacturers' pubs—except you add more detail in the item description.

FILL OUT THE HEADING AND SHOW THE MAKE, MODEL, AND SERIAL NUMBERS OF THE END ITEMS AND ALL ATTACHMENTS FOR WHICH YOU NEED PUBS. YOU WANT TO PUT DOWN THE TYPE OF PUBLICATION NEEDED, TOO... OPERATION OR MAINTENANCE INSTRUCTION MANUAL ...OR A MANUFACTURERS PARTS LIST...OR A COMBINATION OF ALL THREE.

DA Form 1546 (Rev. 1-60)		Request Party, (unit, part, or JN)	
Name, Position, Branch, Postal, Telephone, etc.		Requesting Party, (unit, part, or JN)	
Title		Requesting Party, (unit, part, or JN)	
Address, (unit, part, or JN)		Requesting Party, (unit, part, or JN)	
City, State, Zip		Requesting Party, (unit, part, or JN)	
Country		Requesting Party, (unit, part, or JN)	
Priority		Requesting Party, (unit, part, or JN)	
Quantity		Requesting Party, (unit, part, or JN)	
Unit of Issue		Requesting Party, (unit, part, or JN)	
Remarks		Requesting Party, (unit, part, or JN)	
Comments		Requesting Party, (unit, part, or JN)	
Date		Requesting Party, (unit, part, or JN)	
Signature		Requesting Party, (unit, part, or JN)	
Name		Requesting Party, (unit, part, or JN)	
Position		Requesting Party, (unit, part, or JN)	
Branch		Requesting Party, (unit, part, or JN)	
Postal		Requesting Party, (unit, part, or JN)	
Telephone		Requesting Party, (unit, part, or JN)	
Other		Requesting Party, (unit, part, or JN)	

You also want to include the estimated unit cost and total cost, and the fund account (like it says in AR 37-60) on each requisition for non-stocked manufacturers' manuals.

### SPECIAL LISTS

WHAT IF YOU CAN'T GET ANYTHING... DA MANUALS, MANUFACTURERS PUBS, OR A PRELIMINARY MAINTENANCE SUPPORT MANUAL (PUT OUT BY THE ENGINEER MAINTENANCE CENTER)?

YOU'RE STILL NOT LICKED, BUT YOU ARE GETTING PRETTY CLOSE TO THE BOTTOM OF THE BARREL OF THE CLUES.



So, you make an informal request to your support unit for a special parts list for your particular rig. There're local ground rules on the way you do this, so get the dope on how to go about getting these lists from your direct support people or your Engineer Regional Maintenance Representative.

Tell 'em what you need. Fill 'em in with the details as to make, model, serial numbers and all the other info you think they'll require. Whatever you need—give 'em all the dope.

WHEN YOUR SUPPORT UNIT GETS YOUR REQUEST, THEY'LL GO TO THE ENGINEER MAINTENANCE CENTER FOR THE SPECIAL LISTS. INCIDENTALLY, THERE'RE SOME NEW CODE LETTERS THAT HAVE TO BE INCLUDED IN THE EMC ADDRESS FOR SUPPORT LISTS. HERE'S THE FULL ADDRESS.

Engineer Maintenance Center  
Post Office Box 119  
Columbus, Ohio  
Attention: EMGDY



### R & U EQUIPMENT MANUALS

OKAY, THAT'S FINE. BUT WHAT'S THE DEAL ON THE R & U EQUIPMENT LIKE THAT AT MISSILE SITES... THE STUFF THAT WAS BOUGHT AND INSTALLED LOCALLY... AND ISN'T COVERED BY DA PUBS. WE NEED INFO ON THAT EQUIPMENT, TOO.

STILL NO SWEAT THERE. YOUR POST ENGINEER HAS THE GREEN LIGHT TO GO RIGHT TO THE MANUFACTURER TO GET THE MANUALS FOR YOU WITH LOCAL PURCHASE FUNDS. AR 420-50 IS HIS AUTHORITY. DO THE SAME ON PUBS FOR MOBILE EQUIPMENT NOT LISTED IN PUBLICATIONS INDEXES. LOCAL SOP SPELLS OUT THE DETAILS.



These are your clues for tracking down publications. Once you start putting them all together, there's no more mystery. They fit in place like a jigsaw puzzle... and your case is solved.



LEFT

## TWO FINGERS, PLEASE

That's right, two fingers should be plenty for all practical purposes. Two digits are all an operator needs at any time when he faces the control panel of a radio set and starts tuning, adjusting, setting or calibrating.

Figure it this way: Your radio set has no muscles. Not even one. It's built to respond to your fingertip demands. If you've got internal complications, throw the OFF switch and call for help.

It's sad to see sets sitting around, waiting for repair after losing a tuning tussle with an operator who was very, very, very strong and forced the issue.

Next time you're ready to twist the knobs, then, sort of remember there're



many more muscles in any two of your fingers than in that radio assembly. If they can't give you the right twist, there's more trouble than meets the eye. Then it's time for the repairman.

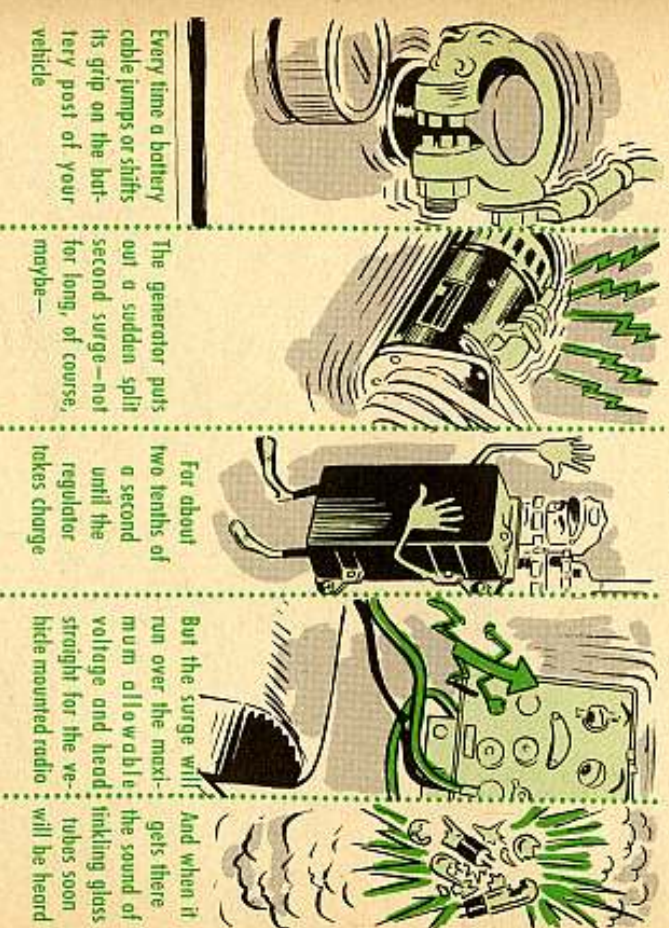


COMMUNICATE

## CURRENT PROBLEM

When the cable jumps—the radio will cry.

It'll yell "ouch" loud and clear anytime a sharp jab of extra current shoots through your 6, 12, or 24-volt electrical system.



Every time a battery cable jumps or shifts its grip on the battery post of your vehicle

The generator puts out a sudden spurt of second surge—not for long, of course, maybe—

For about two tenths of a second until the regulator takes charge

But the surge will run over the maximum allowable voltage and head straight for the vehicle-mounted radio. And when it gets there, the sound of tinkling glass tubes soon will be heard

So pay close attention to the PM dope on batteries and battery cables you'll find in your vehicle's TM. And keep an extra-sharp eye out for a loose cable anytime your vehicle's mounting a radio.





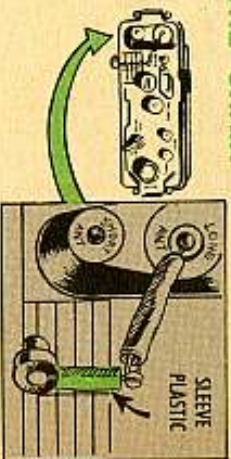
## KINK IN THE CHAIN

Dear Editor,  
It's never too good to have a kink in your chain.

Especially when you want to cap a connector or plug on a radio set. Or uncap it. Because a link chain with a kink in it is hard to handle . . . sometimes likely to get broken after a while . . . and many times prompts an operator to get rid of the chain altogether.

And when the chain is missing, you can almost bet your last pay that the cap isn't going to hang around long, either.

So we put a sleeve on the chain. A short length of plastic spaghetti—cut to the right length—does it neat and quick. It keeps the chain straight and prevents it from snagging. Looks sharp, too.



CWO H. H.

## SPARE PROBLEM

One more thing before you hit the road!

Have you got the running spares for that radio set?

You know, the tubes, lamps, fuses and other replaceable parts that should be



packed in the running spare case (CY-684/GR) and kept close to the radio.

After all, those spares are the nearest thing to a supply room that an outfit will see until it winds up its business and heads for the corral.

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## COMMUNICATIONS

Running off without your spares is like putting everything on one roll of the bones. Just let one thing go wrong, and you're out of action. Worse part of it is that some anxious dial twister is likely to start trying to make some field repairs even without his running spares. That'll get you a set that's boloxed up but good, instead of just out of action for the lack of a component. Really wretched!

So case your set, and let those spares run right into action with the rest of the communications gear.

WOTA YA MEAN A FUSE IS A FUSE? SO WOT?

## FUSE MUSE

IT SAYS HERE, MR. FRANKLIN ADVISES THE USE OF THE PROPER FUSE ACCORDING TO ITS PROPER RATING...



Question: Any harm in slipping in a 2½-amp or 3-amp fuse when the circuit calls for a 2-amp and there's no 2-amp fuse handy?

Answer: Small something? That's a tube or three in your radio set gettin' hot under the overload 'cause somebody figured the bigger the better when it comes to fuses. Not ever so in any electrical equipment.

The danger of over-fusing has crunched close to the elbow of radio operators since the whole business began many, many, many years ago.

When it comes to fusing, it's just like the cartridge in your M1 rifle. No room or reason for anything but the right item. Sparks may fly even if you try a fuse that's maybe only ½-amp more than the traffic calls for.



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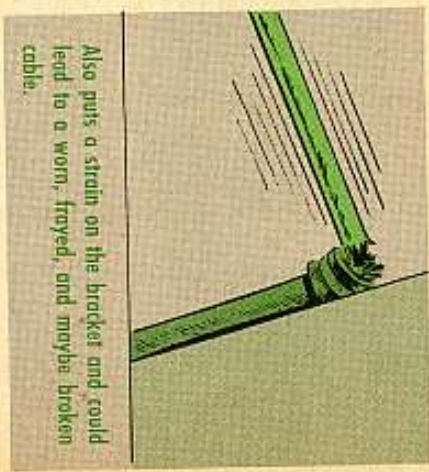
## HANDIER HEADSET

Dear Editor,

We've been sort of on a short rope up there in our L-19's. Sure, it's great having the new AN/ARC-44 installed and doin' a job for us. But there's one thing that's got us wrapped up. It's the Headset (H-101 A/U) cable on the ARC-44. These pictures show how the cable is bracketed to the edge of the set.



And you can see how that bracket cuts down on a man's freedom to maneuver the headset.



Also puts a strain on the bracket and could lead to a worn, frayed, and maybe broken cable.

A few seconds of work and we just took the bracket off altogether. Our CO gave it his blessing, and we figure we made life a little easier for the man at the control—not to mention lengthening the life of the cable.

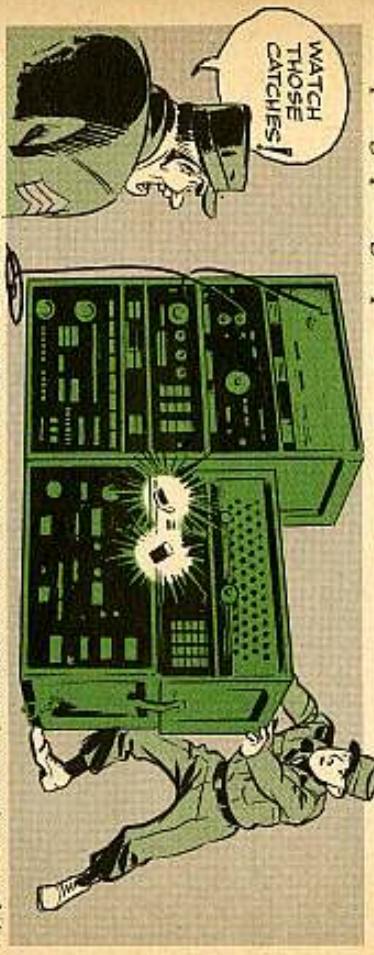
Aviation Section  
Ft Rucker, Ala.

*(Ed Note—Sounds handy. As long as the cable doesn't flap too loose and wrap a man up or get wrapped around the stick. And speaking about that, why not just replace the bracket with a spring clip? That'll keep the cable from wrappin' and flappin' for sure. When a man's sitting in the seat he can open the clip and have plenty of freedom to exercise his cable. When the seat's empty, the spring clip will keep the cable secure.)*

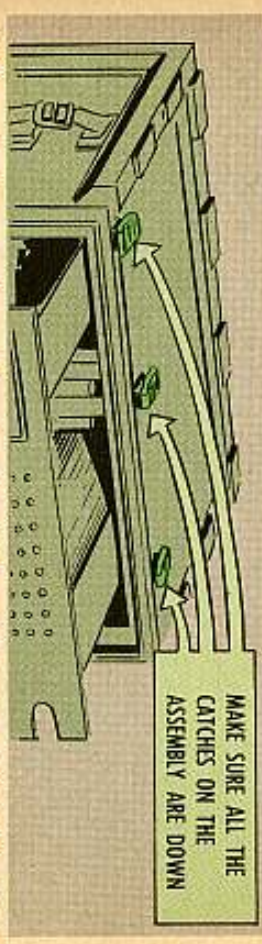


## PILING UP THE ANTIQUES

Handling antiques (AN/TCC's) calls for a little care, especially when you start piling up the groups and modems.



Because every one of them has two or three cover snap-catches on the top of the transit case that're used when the time comes to pack up and clear the area. Those catches, when the cover is off, go down flush with the top of the case, 'course, so a man can pile up the assemblies of an AN/TCC-4 or AN/TCC-20, for example. But it sometimes has happened that a man heaved a modem into position without first making sure all the catches on the assembly directly underneath were lying down.



When they're not, they get bent and twisted and become useless. So, check those catches, then, next time you're setting up an "antique".

# CONTRIBUTIONS

GENERL, I'VE SEEN THIS DONE AT YON TAVERN, IT'LL DO THE SAME WITH WATER,



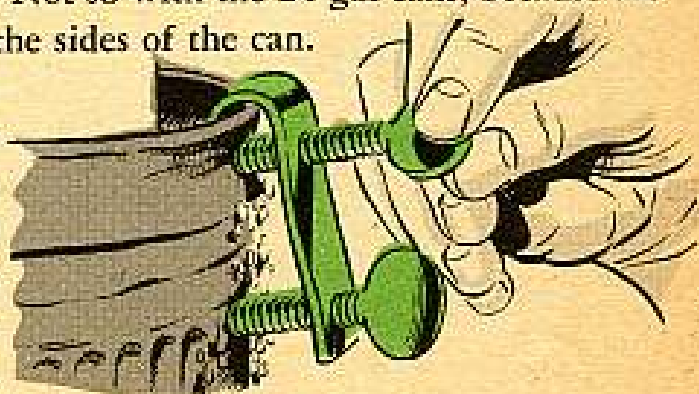
Dear Editor,

Since those 32-gal corrugated cans were issued to replace the older 24-gal ones the combustion chambers of those immersion heaters have been acting like a champagne cork—popping up, that is.



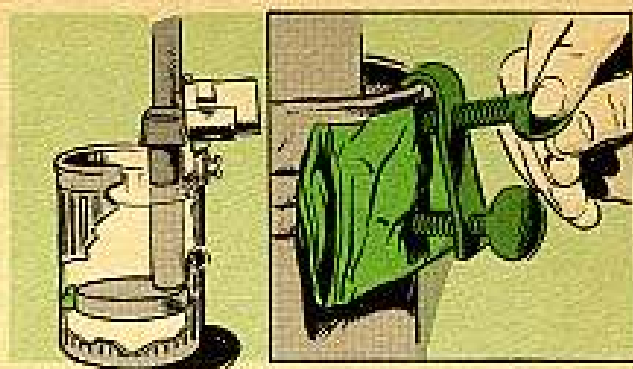
When you put an immersion heater into a 32-gal can of water, the chamber rises, throwing the heater out of kilter. Not so with the 24-gal cans, because the combustion chamber fits tight against the sides of the can.

This bad fit leads to a serious situation. Some people get the idea that the clamp holding the heater to the can isn't tight enough. So, they tighten and tighten and tighten—until they either put a hole in the can or otherwise damage the zinc coating. Once that's done, they might as well forget about using the can for cleaning mess equipment,



because the Medical people consider it a health hazard when any zinc is chipped off. Furthermore, when a can's damaged, it can't be re-coated.

If you wanna get a good tight fit and at the same time protect the can, take an empty can, size 303 or 2½, and put it between the side of the combustion doughnut and the side of the can on the bottom just opposite the heater flue. Or, you can use a flattened-out can between the thumb screws of the clamp and the side of the can.



Sgt M. S. Schultz

## PARTS PUZZLE?

Dear Editor,

We're set up as a dual Nike-Ajax site. We don't have a supply man for each system. So, to save the supply man and us from hither-and-yon around reporting or getting replacement parts, we worked out a plan that fits the bill:

Every day, when our boys check the equipment, they mark down what parts they need, listing name and number of the part, and any other helpful description. It looks like this:

Part Nomenclature	FSN & Ord Part No.	Volts	Amps	Watts	Other
ELECTRON TUBE	5960-166-7651	—	—	—	USED 2
RESISTOR	5905-144-2744	—	—	½ W.	USED 1
LAMP	6240-155-8663 (142311)	6.8 V.	—	—	USED 1
CAPACITOR	5910-170-5218 (1598489)	—	—	—	50 MF USED 1

We hang this list on a clipboard from one of the section doors, and put the defective part in a box nearby. When the supply man comes around, he goes over the list to see what's needed. When he brings the part, he puts it in the box and crosses the item off the list.

This sure saves a lot of telephoning as well as a lot of shoe leather.

The IFC Gang  
D Btry, 1st Msl Bn  
Tolchester, Md.

## FUEL REFUGE

Dear Editor,

We think we've just about solved the M3 fuel storage problem at our Nike-Ajax site. As you know, the drums shouldn't be exposed to direct sun rays, and it's not a good idea to store 'em inside either, since there's always the chance of fire. And according to TM 9-1903 you gotta have a 50-foot cleared area around the fuel storage area.

With this in mind, we built an all-metal double-decker outdoor storage hut, complete with hinged roof. We used scrap galvanized pipe for the frame and sheet metal for the roof. (We'd have used corrugated for the roof if we'd had any.)

The frame is large enough to hold about 10 drums, stored with the bung up. The two-story effect gives us maximum use of space, and the hinged roof lets us load and unload the drums with no sweat.



WO Camfield  
A Btry, 4th Msl Bn

## HOLD YOUR NOSE

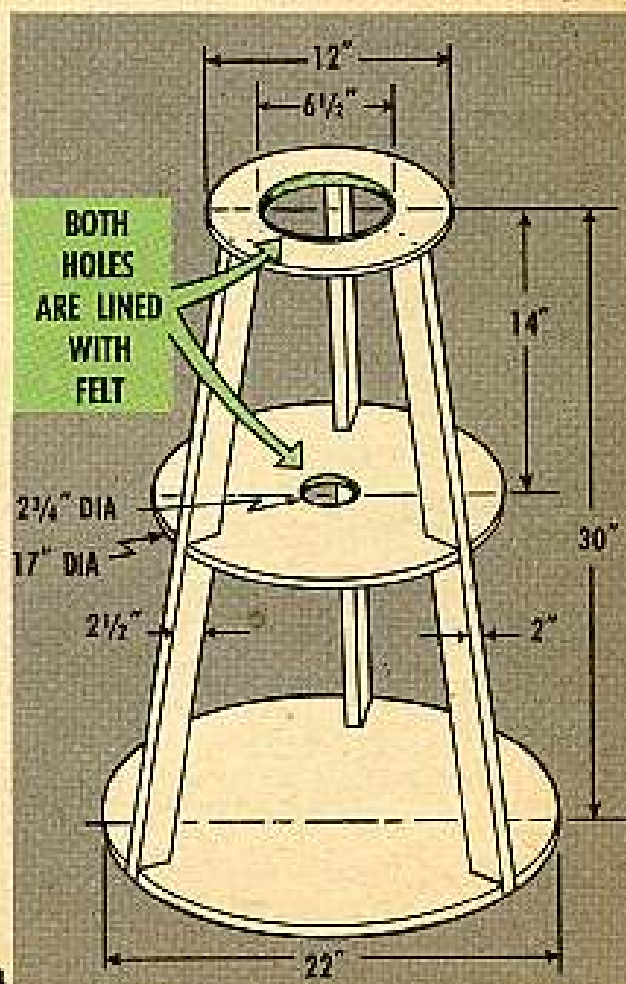
Dear Editor,

It used to be it'd take two men to install the nose warhead in our Nike-Ajax missiles. Or, if one man tried it, he'd about bust his back.

We got a brainstorm, tho, and with some scrap lumber made ourselves a support for the nose section so that one man can install the nose warhead with no sweat.

SFC Oscar L. Davis  
Homewood, Ill.

*(Ed Note—Good deal . . . long as nobody forgets to line those holes with heavy felt weather stripping. You can fasten the felt to the wood with Adhesive: Syn-ru liquid, general bonding, FSN 8040-264-5840. The adhesive's in your Ord 7 SNL Y2, dated April 1958)*



# Connie Rodd's BRIEFS



## *Tape it*

You having trouble with battered record paper on your Nike-Ajax or Hercules event recorder? Seems the spring clip in the takeup drum assembly on the Model 1712 recorder is making a mess out of the paper. Until the clip is replaced by a better one, attach the paper to the drum assembly with two pieces of 1-in long masking tape.

## *Here forms*

It's information time for you guys who pull daily, weekly and monthly checks on the Nike-Hercules acquisition radar, missile and target track radars, computer and recorder group. The DA Forms you want to use for these checks are 9-27 through 9-37, which are listed in DA Pamphlet 310-2. Each system starts off with a 60-day supply as initial issue. After they're used up you can requisition new ones through your normal publication supply channels.

## *Stop that seat*

Do you M48A2 tankers have trouble with the loader's seat hitting the Li'l Joe air cleaner? Did you see MWO 9-2350-208-20/2 (17 June 58)? It has an **urgent** fix about welding a "stop" on the bracket assembly so the turret can be traversed without damaging the air cleaner.

WHAT I WANT TO KNOW IS... DOES THE AR INCLUDE SKUNK SKINS IN ITS AUTHORIZATION?



## *Tight is right*

Front spring shackles can end up in sad shape when you forget to check for tight draw bolts on your Model 424 2½-ton stake and platform commercial trucks. The tapered ends on the shackle pin make it easy for a loose bolt to let the shackle plate work off. Either keep bolts tight—or try a cotter pin and castellated nut deal to keep 'em right.

## *Stay in neutral*

Lo 9-2320-210-10 (19 Jan 59), says it: Leave your G749-series Hydra-Matic transmissions idling in NEUTRAL when checking transmission oil level. No more shifting to F-1 HIGH range for your oil check. The transfer control lever stays in UP ENGAGED position according to para 39b in TM 9-8024 (Oct 55).

## *Fill in the blanks*

Y'wanna be sure, next time you're firing blank rounds from your artillery weapons, that you make a note of 'em in your Gun Book and identify 'em as such. The boys with the slide rules want to know **everything** you've fired including blanks, so's they can improve your weapon and design others.

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

**YOU DID A FINE JOB  
CLEANING THE JEEP... BUT**

**COST  
\$2,000**

**COST  
\$7,000**



**LOOK WHAT  
YOU DID TO  
THE RADIO...**

**YOUR RADIO'LL  
TAKE RAIN OR SNOW  
BUT YOU CAN KILL  
IT WITH A WATER HOSE**