





THE PREVENTIVE MAINTENANCE MONTHLY 15588 No. 124 1983 Series

#### Artillery 106 Recoilless Rifle M60 Tank Gun .... Small Arms M79 Grenade Launcher M14 Riffe M60 Machine Gun Hawk Notebook XM117 Telescope Mount M2A1, M2A1-7 IN THIS ISSUE

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Wheels
Battery-Generator Indicator
34-ton Truck
94- (Bendix)

Electrical Repair Kit (Bendix)

Tracks M60 Tank Hul

Wheel Hub Lube Leaks M48 Tank M88 TRV



Fixed Wing 0-1, OV-1A

Helicopters CH-34, UH-1A, UH-1B, OH-13G

Cargo Fickup Hand Signals

Radios
RT-540 Receives-Transmitter
RT-546 Loudspeaker
R-390/URR Receiver
R-390/URR Receiver

Radio Cable Connections Radio Power Feed Kit



55444 48822848 CHMONICATION

Telephones
H:144 & H:81 Handset Headsets
Rt.39 Reel Assembly

24V Vibrator Tester RT-66, RT-70 Dummy Antenna Meters AN/TRC-24 Radio Set

TA-1/PT Telephone
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SB-86/P Switchboard

Radar PU-422/U Generator

Mation Picture Projection Set AS-2(1)

**Publications News** 

Power Units and Generators Welding Safety Precautions

62-64 .60-61 58-59

Forms DA Forms 2408-7, 2408, 2404

Use of funds for printing of this publication has been approved by Headquarters, Department of the Army, 4 April 1962. DISTRIBU-TION: In accordance with requirements submitted on DA Form 12-4.

PS wants your ideas and contributions, and is giad to answer ur questions. Harnes and addressas are kept in confidence.

591 Malf-Mast. DS Magazine. Paul Know, Ky

## FIREPOWER

FIT MOVE. YOU CAN SHOOT IT

That's good advice—'specially when it comes to the gas piston on both the M14 rifle and M60 machine gun.

and forth under its own weight, it's

If you hear the piston moving back

clean enough-so hands off. Natch, if

The piston on both of these 7.62-mm weapons is made of special rust-resisting metals, and the piston is best left alone unless your M14 or M60 comes up with a short recoil or acts a mite sluggish.

So don't pick up the habit of disassembling and cleaning the gas cylinder everytime you're cleaning your piece. Learn to leave well enough alone and save the wear and tear on your weapon.

The fastest—and casiest—way to check your gas cylinder piston action is to swing your weapon through an arc from the ground to the sky — and

you don't hear the piston sliding around, it's a tip off that cleaning time has arrived.

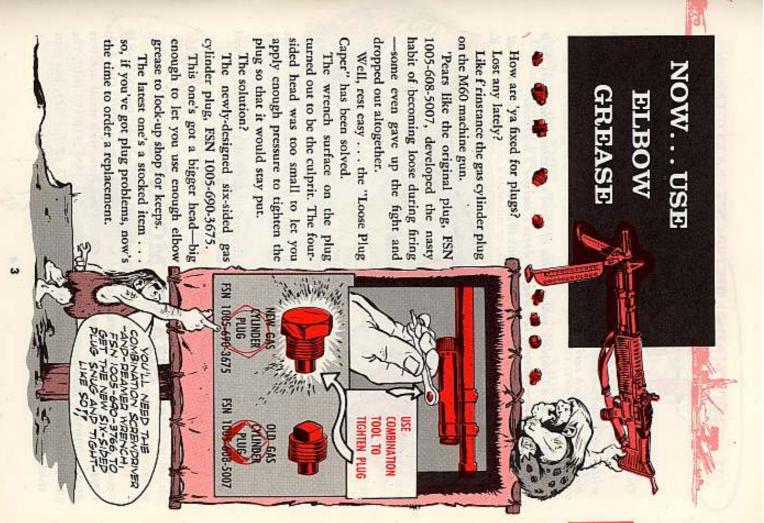
DON'T F'GET RIFLE BORE CLEANER ONLY NO ABRASIVE'S.

Don't get shook if the piston is a little discolored. It's only a reaction to the heat and doesn't mean a thing. Using abrasives to remove it will only throw a mighty close tolerance out of whack and louse up things—but good.

# EASY... HERCULES... EASY

Fase off on the muscle juice when you tighten that pan-headed machine screw into the stock of your M79 grenade launcher. Too much power and you'll end up with what you see here—a split stock. Just run it up until it's snug... then give it about 1/8 of a turn with your combination wrench...





## SEVEN'S THE NUMBER

Dear Half-Mast,

I've bumped into a small problem on the total amount of magazines allowed with each 30-cal carbine. In ORD 7 SNL B-28 (Jul 57) the FSN indicates one magazine with each carbine. Then under spare parts, it lists six magazines for each weapon.

I read this as a complete authorization of seven magazines, but others see it as a total of six—claiming the weapon doesn't include a magazine.

How's about coming up with your views to settle this hassle once and for all.



One magazine is furnished with each carbine. It's considered a part of the weapon of issue. Since six magazines are listed as spare parts allowed—they are in addition to the original issue.

Six plus one still add up to seven—so the total quantity of magazines allowed is that old gallopin' dominocs magic number of seven.

You can apply this same principle to other equipment, too.

Half-Wast

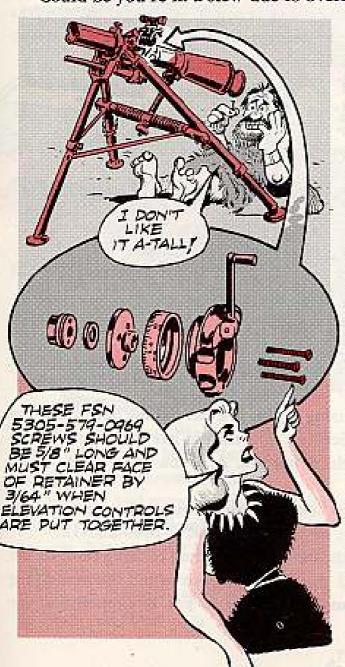
#### SHAKY MOUNTS

Are machine gun mounts giving your wheeled rigs, and you, the shakes? If you've got the M36 truck mount, could be you need to apply MWO Ord A55-W18 (22 Jul 53). Or if the trucks're G742-series Reos with scrial numbers below 110380, they may need Kit, cab reinforcing, FSN 2510-570-1619. The kit should've been applied under MWO Ord G742-W2 (2 Jun 52), but your trucks could've been by-passed while in storage.



Get the feeling that all's not well—when you start cranking the elevation handle on the XM117 telescope mount on your XM28 or XM29 Davy Crockett shooting iron?

Like the grinding and binding just shouldn't bc . . . you're so right. Could be you're in a stew due to oversize screws.



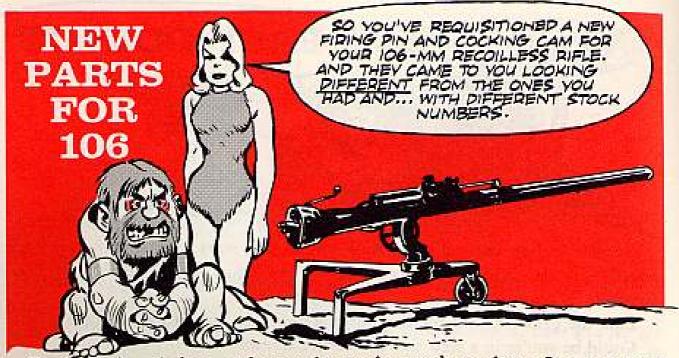
If that's the case, check out the three pan-headed screws sitting in the scooped out section of the elevation knob assembly. These screws, FSN 5305-579-0969, should be 5/8 of an inch long—and when the elevation controls are put together these babies gotta clear the face of the retainer by 3/64 of an inch.

If somebody goofed, and the screws are just a mite too long or the washers, FSN 5310-530-9766, are missing, the extra length is just enough to scrape chips from the face of the retainer . . . giving you your binding troubles.

A liberal dose of PM will go a long way toward licking the problem.

Get the habit of eyeballing the screws and retainer often. If they look chewed up or meet—grind or file the screws till you get some breathing space.

Natch—if this tip hits you too late and your telescope mount needs more help than you can give it—ship it back to your support for a complete going over.



Don't get in a lather—unless you're getting ready to shave. So many cams were breaking 'cause the firing pins were being put in wrong that the design people 've come up with new cams and firing pins.

When the depots run out of the old firing pins, FSN 1015-305-0755, and the old cocking cams, FSN 1015-608-1273 or FSN 1015-300-5388, they'll send you the latest firing pin, FSN 1015-672-8728, and the cocking cam FSN 1015-672-8729.

FSN 1015-672-8728 FSN 1015-672-8729

Here's the deal on installing the new parts.

First . . . disassemble the breechblock group the way it says in para 65 of TM 9-1000-205-12.

Then . . . take the pin spring out of the firing-pin-housing assembly and toss away the pin spring.

Next . . . have your support unit get rid of the part number 7309888 on the firing-pin-housing assembly and stamp on the number 8766068.

Once you get your hands on the housing again, you can put the new firing pin and cocking cam in the breechblock. Seeing's how the pin has a new design, the cocking cam'll work on either side of the firing pin. And you don't have to line up the cam in any special way.

You're all set to try out the new parts once you put the rest of the breechblock parts where they belong the way it says in para 65 of TM 9-1000-205-12.

By the incidentally—you don't get the new firing pin and cocking cam 'til the old ones are used up, and it's no dice if you figure you can install the new firing pin and leave in the old cocking cam—or vice versa. You're supposed to use both new parts together.

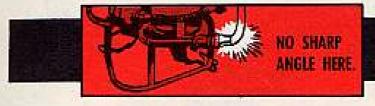
### NO TICT, PINCH OR ANGL

When the portable flame thrower is transported, toted or parked, be sure it's firmly braced so it won't tilt or fall over on the gun hose.

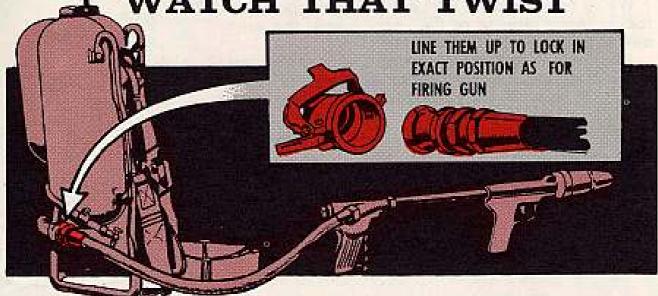
If the heavy tank section goes over on the hose, the hose'll suffer a severe kink near the tank outlet coupling. And that kind of a bind will seriously damage the hose.

It's also bad to pull the hose at a sharp angle (like when you park the gun itself on top of the tanks). This can deform the hose, and weaken the steel reinforcing wire.





WATCH THAT TWIST



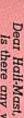
Twist if you must, but spare that hose . . . on your M2A1 (or M2A1-7) portable flame thrower, that is.

Twisting and wrestling (to force the gun to the right firing position) can deform that hose for keeps. So, please take care.

Line up the assembled gun and hose so you can lock 'em to the flame thrower's tank in the exact position they must be in when you fire the gun.

Also, when you're locking the hose to the tank be sure to press the hose coupling as far as it'll go into the tank's coupling, and then close the two coupling cams.

Change 1, 6 Aug 62, to TM 3-1040-204-10, has this no-twist warning.



along the bottom fuze antenna. Is there any way we can drain the hydraulic lines in our Hawk missiles after we've made a performance check? We find that the hydraulic fluid collects

MSgt S. I.

## Dear Sergeant S. I.,

to get rid of leaks, or maybe cut them way down, so the stuff doesn't find a home on the bottom of the fuze pencils and slide rules are getting a workout right now to see if it's possible antenna. score, at least for awhile yet. Paper, I'm afraid you're out of luck on this

TEAT LIERS ARROW

age that builds up between performwithin the guidance section - seep-

I guess you know what paragraph 57c (23) of change 3 to TM 9-1410-500-12 says about normal seepage ance checks. If you haven't read that

ANTENNA, HERE INTO BOTTOM FUSE HYDRAULIC FLUID SEEPS

to take a look the first chance you get paragraph lately, it sure wouldn't hur

#### YOU NEED HELP SUPPORT LINE

ズエス

clean . . . you're using new preformed Call in your support unit cause you've screws at the same time. What now it goes in the slot on the radome and above the normal 1600-in-lbs for torqto the +200-in-lbs you're allowed been coated with rubber lubricant (FSN 9150-250-0926) . . . you've gone packing (FSN 1420-767-9037) that's guidance section and the radome are Hawk missile. The threads on both the done all you can. lets you put in the two fastening ing the radome . . . and you know that he radome lock key won't line up so your torque wrench is accurate. But Here's the scene as you work on your



YA APE...

## GAA IS THE WAY

Dear Hall-Mast,

ctor joins the motor. rosion keeps forming at the place where the actu-We've got a problem with our Hawk missiles. Cor-

What's a good thing to use so the actuator and motor don't touch each other and so stop the corrosion? As you know, they're made of different metals.

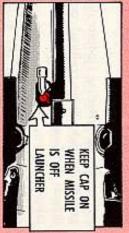
FSN 9150-248-3476 will get you a 1-lb, can. Don't put more'n a thin smear on.

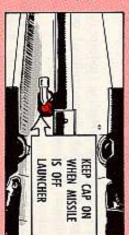
ONDER WOL

Dear Sergenat S. I.
I'd use GAA, the kind that goes under MILG-10924.

## CAP IT — WHEN

it belongs when your Hawk missile is And the cap stays on when the missile dirt and what-have-you out of the port. off the launcher — on the hydraulic exhaust port. The idea is to keep dust, That plastic dust cap is just where







## OIL IS NEEDEL

END TO NUTTY PROBLEM

The way the gears and motor of the azimuth drive assembly on some Hawk launchers are breaking down before their time you'd sure enough. think maybe it has something to do with lubrication. And it does

The motor pump assembly just doesn't get enough lube the way

It takes a little doing on your part to get oil to the gears and

motor - but it's worth the effort

シード サイド

AZIMUTH

4130. hatch assembly the way it tells you in TM 9-1440-500-12/1. (Don't forget to cating oil, MIL-L-6086, FSN 9150-223motor pump assembly gear case and put in the boom support safety rod.) Then remove the fill plug from the fill to capacity with aircraft gear lubri-What you do is raise the launcher

every 100 hours of operation. If it's low, put more oil in. The oil level wants to be checked

can find a 5-gal pail listed in Federal Supply Catalog C4-1 (SM 10-1-C4-1), dated Feb 61. In case you don't have any of the oil lying around, you

HAWK WATCHERS

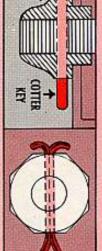
the Hawk launcher take a look at Training Film 44-2893. There's also Training Film 44-2891 which covers capabilities and operation of the Hawk loader. weekly checks and adjustments on For a visual briefing on daily and

cedures for safe handling and testing And Training Film 9-3118 shows pro-

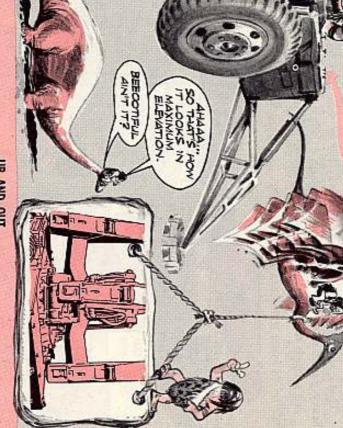
of the Hawk missile system. ment section can help you out with The nearest post film and equip-

5

がいた nut and threaded pin. Then slip a cotter key in into the compartments. You won't have the prob-lem, tho, if you get a 3/32 in hole drilled in each nuts have a habit of becoming loose and falling If there're some things that don't belong in the front and rear compartments on your Hawk the hole lasteners on the compartment covers. But those councher, they're the lock nuts used to hold the







UP AND OUT

on the daily check. in the boom will run off without getting into the electronic equipment under you start your daily check. The boom should be at maximum elevation and the front and rear compartment covers closed. That way . . . any water that's the covers. Once all the water has dripped or poured out, you can get going This is how your Hawk launcher wants to look after it has rained and before

#### SPARE THAT RELAY - PLEASE



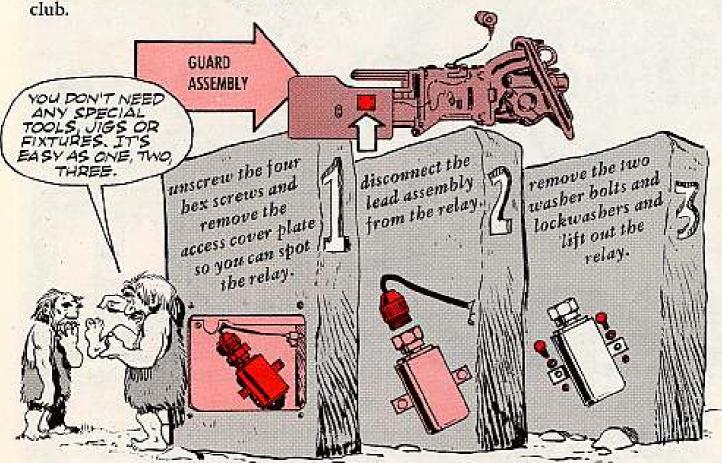
No argument—removing the gunner's guard assembly on the M116 105-mm gun mount in the M60 tank is a job that calls for about a pound of blood and sweat.

But, why add to your troubles by busting the electrical firing relay in the process?

The next time you're giving support a helping hand—or it's a do-it-yourself project—spare that relay the easy way . . . take it out.

That's right. Get it out of harm's way before you start bull-lugging the heavy guard assembly around—and replace it when the big job's finished.

It's a cinch to do and gets you a membership pass into the "thinking man's"



All that remains then is to keep the relay handy so you'll remember to reverse the one, two, three steps and replace and connect the relay—once you've got the guard reassembled.



You mechanics and drivers of the M60 tank can run into more troubles than you bargained for if you neglect to make this "on-the-spot" feel test of those fuel injector nozzles in its AVDS 1790-2 engine.

Some keep poppin' up here and there with loose nozzles . . . just seem to sneak by the wary eye of inspection. These are the ones you'll hafta be on the look out for, and try to catch up with before the damage is done.

Right now is the time to check for loose nozzles. Then, from now on, you do the feel test at each Q-service. It's done like this—

Start up the engine . . . grab hold of the end of the holder body on the nozzle assembly with your hand (do this while the engine's still cool). If you detect even the slightest movement in the body, turn the engine off and don't start it up again until your support unit has checked it out.

When support pulls the nozzle out, they'll probably find it needs a new nozzle gasket (FSN 2910-678-5369) or, maybe the nozzle gasket's missing.

FUEL INJECTOR NOZZLE

IF BODY MOVES AT ALL
TURN ENGINE OFF.

IT MAY NEED
A NEW GASKET

When a gasket's left out, a gap is created, twixt the scat in the cylinder and nozzle tip. The gap allows the nozzle to move up and down. It's not long till the nozzle and cylinder head threads have gone to pot from the thumping they take and from the extreme heat of leaky combustion gases.

#### TANK HUB LEAKS

Dear Half-Mast,

In PS 108 page 15 you tell how to cure lube leaks in the wheel hubs for the M53 SP gun,

the M55 SP howitzer, the M51 VTR, and all the tanks in the M48

and M103 families.

The pressure relief fitting FSN 4730-542-5683 is shown but I can't make out what it looks like,

Could you give us a good drawing of this so we can be sure we got the right thing?

Dear Sergeant J. B.,

Glad to oblige. But o'course, this is only for lubricant pressure relief. You still need a standard lube fitting FSN 4730-287-5660 (half way 'round the hub) for use with your GAA gun.





#### LI'L JOE TOOL

Dear Editor,

No more fishing expeditions for us!

I'm talking about removing and replacing the auxiliary engine mounting bolts on our M48 tanks.

Time was when we used to put three 12-in extensions together to get down to the bolts. Then when you tried to lift the extensions out, likely as not they separated and you had to go fishing for them.

But that is not the case since we made up this handy 40-in tool from ½-in cold rolled steel, with a spare 6-in extension cut in half and welded on each end.

Now, when we turn those Li'l Joe mounting bolts there're no extensions to get lost.

CWO Robert Crabbe Camp Drum, N. Y.

WELD EXTENSION HALVES

(Ed Note—Looks like a good time and trouble saver. Just be sure it's a condemned extension that gets the surgery . . . wouldn't want your tools to look like something they shouldn't.)



It's easy to do the wrong thing when you're operating the hoist winch of the M88 TRV...for sure when you get two sets of instructions.

Here're three important points for hoist winch operation.

Have 'cm down pat before climbing into the seat again.



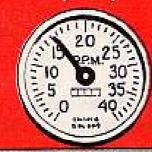
when there's a load on the cable. Low'll give with more power, a smoother pull, and better braking action.

Use high ONLY when there's no load on the cable and you're in a big hurry to reel the cable (in or out) by itself.



 Keep the engine revved to between 1500-1600 RPM whenever the operating lever is engaged.

If she falls below 1500, or goes above 1600, the innards of the hoist system take a beating. Keep your eye on the tach because the engine governor is set high and will let the RPM run away with you.



3. When hoisting, keep a fourpart line threaded thru the sheaves and snatch block...

... LIFTING WITH A SINGLE-PART LINE LETS THE WINCH TRAVEL TOO FAST AND MAKES IT TOUGH FOR THE BRAKE TO CONTROL IT.



#### IT WENT THATAWAY

Dear Half-Mast,

Is the battery-generator indicator on our tactical vehicles supposed to show battery voltage with the ignition switch turned OFF?

Some say yes-others say no.

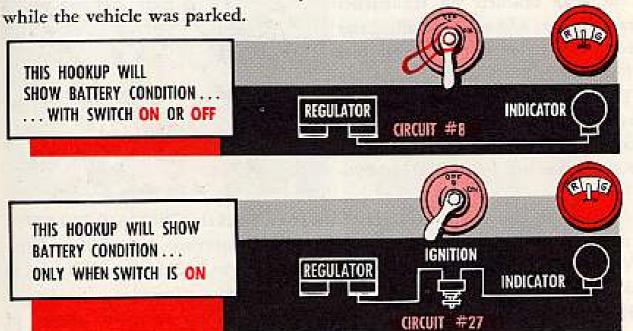
Dear Mr. E. G.,

The answer could be either yes or no, Sir. It will take a check-out on the vehicle to see who's right. It depends on how the battery-generator indicator is wired.

CWO E. G.

When the switchover from ammeters to indicators was made, some indicators got a wiring hookup that bypassed the ignition switch. You can see this hookup in the wiring diagrams in Fig 167 of TM 9-8024 (3 Oct 55) for the GMC's and Fig 146 of TM 9-2320-206-12 (4 Feb 60) for 10-ton trucks.

But some indicators wired this way allowed the battery charge to trickle away



So, the hookup was re-designed to take current to the indicator through the ignition switch like it's shown in Fig 111 of TM 9-8014 (6 Apr 55) and Fig 134 of TM 9-8030 (2 May 55). (MWO Ord G1-W78, dated 23 Mar 56, spelled out this hookup when replacing ammeters with battery-generator indicators. But this MWO's been rescinded.)

To sum it up, if your battery-generator indicator's wired like the diagrams in TM 9-8024 and TM 9-2320-206-12, it'll show the battery condition with the ignition switch ON or OFF.

But if the indicator's wired through the ignition switch (circuit No. 27) it'll show the battery condition only when the ignition switch is ON.

Halk-Mast



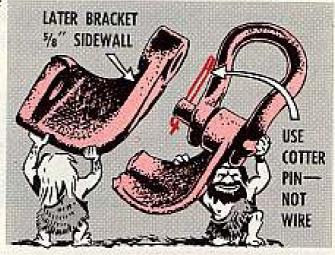
There may be times when you'll hafta lift a G741-series, 3/4-ton truck up onto a boxcar, ship, etc. and the lifting sling spelled out in TB 9-210/1 makes the job a bit cumbersome to do.

So you'll want to use your truck's lifting brackets that the shackle and pin hook in to for doing the lift job. OK, but when you do, wind an extra cable (wire rope) thru the bumperettes in the rear if the vehicle was produced prior to 1952

and around the bumper in the front of all the trucks . . . here's why.

The rear brackets on the earlier trucks had a 1/4-in sidewall. Later (about 1951) they got beefed up to a 5/8-in sidewall.

To be sure you've got the beefed-up brackets on the rear, ask for: Bracket, Rear, Left; FSN 2540-696-0250. For the right side ask for FSN 2540-696-0251.



There've also been some reports of the front brackets (FSN 2510-770-5779) breaking. So be sure and give them a careful going over too, before liftin' her.

When checking the brackets out for signs of cracks, eye those shackle pins to make sure there's a cotter key in 'em . . . no baling wire allowed.

Remember, a broken bracket or loose shackle pin could cause plenty of troubles. Check 'em out first.

#### PRESSURE DATA

Do you have any M37B1, 3/4-ton trucks in your motor park? If so, take a glance at their instrument panel data plate and see what it says about the tire pressure.

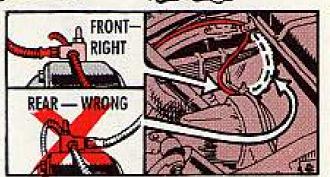
The correct cross-country and highway tire pressure for this truck is 40 pounds; just like TM 9-8030 says. Any



instruction or data plate that says otherwise should be changed to agree with the TM; and TB 9-2320-212-20/3 (14 Aug 62) gives you the authorization to make the change.

#### RIGHT --- TO THE

If any of your 3/4-ton, M37B1, trucks show up under DA Contract Number DA-20-018-22821 . . . the dash data plate will clue you on this . . . take the time to check-see how the flexible hose running to the rear brake lines is hooked up.

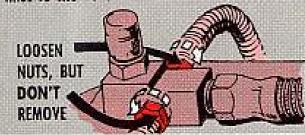


On some of these vehicles, the brake hose was hooked up from the wrong side of the rear axle . . . from the rear instead of the front side like Fig 187 in TM 9-8030 (May 55) shows.

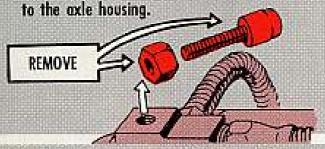
When connected up from the rear, the hose may rub on the fuel tank or may kink . . . in either case the life of the hose is jeopardized.

So, you can make the switcheroo real easy, just . . .

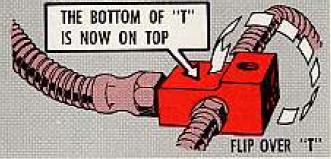
 Loosen, but don't remove, the two, 1/4-in inverted flared nuts connecting the axle brake lines to the "T".



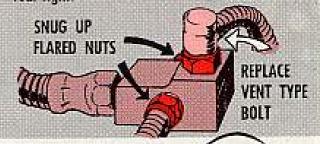
2. Remove the vent-type bolt that holds the "T" to the axle housing.



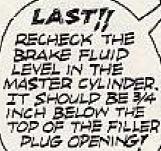
 Just flip the "T" over (180") while at the same time pivoting the flex brake hose.



- 4. Reinstall the vent bolt.
- Snug the flored nuts back up again, but not real tight.



6. Then you bleed the brake system without a pressure filler, just like TM 9-8030 (May 55) says on page 335, para 216(c).







To help you learn what's what with your Bendix waterproof electrical connector repair kit, here's a chart that will help you get the replacement parts you need.

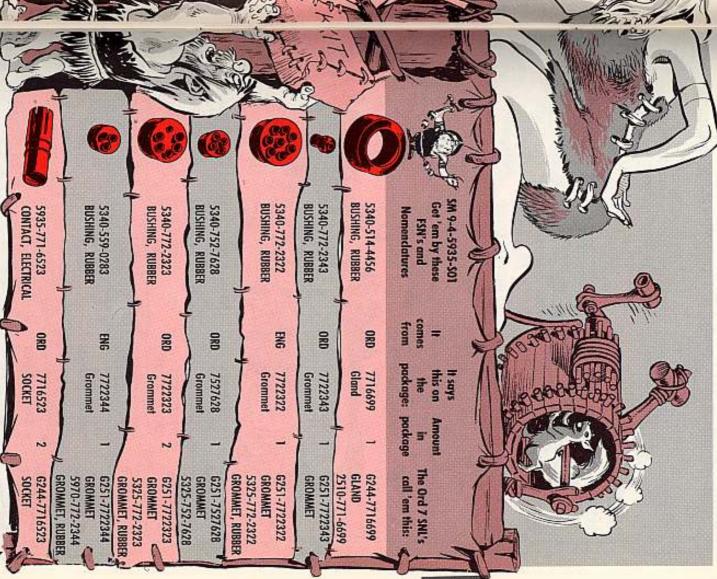
The Bendix kit carried an old Ordnance Stock Number (H020-5701380) but it now has FSN 5935-570-1380. And SM 9-4-5935-S01 (21 May 62) lists all the items in the kit.

Stockage at organizational level is limited to one Bendix kit per organization regardless of the variety of vehicle types that you support. You can replace any item in the kit, but you have to order separately—you can't reorder the whole kit as one unit.

0	0			(Jo
5340-514-4454 BUSHING, RUBBER	S340-514-4457 BUSHING, RUBBER	S340-514-4455 BUSHING, RUBBER	5340-641-8645 BUSHING, RUBBER	SM 9-4-5935-501 Get 'em by these FSW's and Nomendatures
ORD ORD	8	7 88	ORD	comes
7527646 Gland	7716697 Gland	7716696 Gland	7527647 Gland	It says this on the package:
2	-	-	-	Amount in package
G244-7527646 GLAND 5340-752-7646	6244-7716697 GLAND 2510-771-6697	G244-7716696 GLAND 2510-771-6696	G244-7527647 GLAND 2510-752-7647	The Ord 7 SNL's call 'em this:

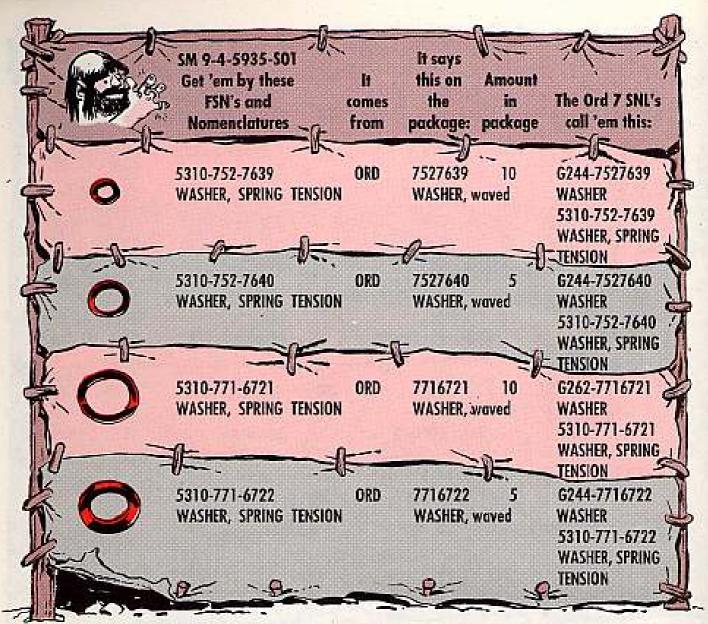
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MORE



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S935-752-7655 CONTACT, ELECTRICAL	CONTACT, ELECTRICAL  5935-259-3143 CONTACT, ELECTRICAL	CONTACT, ELECTRICAL  5935-491-8193 CONTACT, ELECTRICAL	5935-636-6876	KEEP YOUR XIT IN A PRY PLACE MOISTURE WILL GIVE YOU TROUBLE	S935-771-6526 CONTACT, ELECTRICAL	S935-771-6524 CONTACT, ELECTRICAL	CONTACT, ELECTRICAL	5935-771-6527 CONTACT, ELECTRICAL 5935-368-4852	5935-771-6525 CONTACT, ELECTRICAL	SM 9-4-5935-501 Get 'em by these FSN's and Nomendatures
22 8			e A		8		+	ORD	OR OR	tomes from
7527655 PIN	7527648 SOCKET 7527652 SOCKET	SOCKET 7527650 SOCKET	7527654		7716526 PIN	7716524 PIN	₽	7716527 SOCKET	7716525 SOCKET	It says this on the package:
2 2	# F S	中丰	s A			7 .	4	2 8	F commence	Amount in package
6244-7527655 PIN 5315-752-7655	G244-7527648 SOCKET G244-7527652 SOCKET 2805-752-7652	SOCKET 5935-752-7654 5935-752-7650 G244-7527650 SOCKET	6244-7527654	i de	6244-7716526 CONTACT 5935-771-6526 PIN	6244-7716524 CONTACT 5935-771-6524 PIN	CONTACT 5935-368-4852 PIN	G244-7716527 SOCKET G244-7716522	G244-7716525 CONTACT	The Ord 7 SNL's call 'em this:
	52 2			A.P.	26	24 4	I s		CH	IT I
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5935-7 GROMA	5325-6 GROMA	5330-51 GASKET	5330-64 GASKET	5330-54 GASKET	5330-64 GASKET	5935-5 GASKET	5935-4 CONTAC	2935-7 CONTAC	5935-7 CONTAC	SM 9-4 Get 'ea FSI Norma
5935-752-7630 Grommet, Rubber	5325-631-6886 GROMMET, CONNECTOR	5330-599-6089 GASKET	5330-641-4336 GASKET	5330-543-6849 GASKET	5330-641-4338 GASKET	5935-593-6442 GASKET	5935-491-8194 CONTACT, ELECTRICAL	5935-752-7649 CONTACT, ELECTRICAL	5935-752-7651 CONTACT, ELECTRICAL	SM 9-4-5935-S01 Get 'em by these FSN's and Nomenclatures
12	OR ORD	ORD .	ORD	ORD	ORD	ORD	ORD	ORO L	L ORD	comes from
콩	T	7388357 Gasket	7388352 Gasket	7358503 Gasket	7358502 Gasket	7358501 Gasket	7527653 PIN	7527649 PIN	7527651 PIN	It says this on the package:
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RD 7527630 1 1 Grommet	7731435 2 Grommet	1357 5 ef	5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- v.	5	50	8/	50	ockog in moun
7527630 1 1 Grommet	1	ļ · •	] ~ ]	5 G244-7722223 GASKET \$ 5935-772-2223	5 6251-7732876 GASKET 5330-773-2876	5	50 6244-7527653 PIN 5315-752-7653	1		Amount in The Ord 7 SNL's package call em this:

K		MA		1		K	1		1			1
					5	No.	To the second					
	5935-772-3309 NUT, BUSHING RETAINER ELECTRICAL CONNECTOR	5935-333-9414 NUT, BUSHING RETAINER, ELECTRICAL CONNECTOR	S935-333-4222 NUT, BUSHING RETAINER, ELECTRICAL CONNECTOR	NUT, BUSHING RETAINER, ELECTRICAL CONNECTOR	5935-333-3088		6810-264-8983 METHYL ETHYL KETONE, TECHNICAL	ELECTRICAL	5970-224-5277 INSULATING COMPOUND.	S325-090-5426 GROMMET, RUBBER	5325-338-1274 GROMMET, RUBBER	SM 9-4-5935-501 Get 'em by these FSN's and Nomenclatures
ORD	ORD OR	ORD	) · · · · · · · · · · · · · · · · · · ·	<b>b</b>	ORD ORD	HANDWA I	Ę,	1	ORD	ORD	080	tomes from
7527643 NUT, coupling	7723309 NUT, retaining, grommet	7723308 NUT, retaining, grommet	7723307 NUT	NUT, retaining, grommet	7723306	T KNOW YOU TO BE T	7527656 Thinner, methyl, ethyl ketone	insulating and sealing electrical connections	7527657 Commound	7722333 Grommet	7524564 Grommet	It says this on the package:
2 @	<b>σ</b> ω	<u>د</u> و	2 -		~ €	E ABE	_,	Ì	-	2	2	Amount in package
G244-7527643 NUT 5310-752-7643	G592-7723309 NUT 5310-772-3309	6244-7723308 NUT 5975-772-3308	G244-7723307 NUT 5310-772-3307	NUT 5975-772-3306	G244-7723306	3	52-T-620 THINNER	COMPOUND, DC-4	GROMMET, RUBBER 52-C-3096-750	G592-7722333 GROMMET 5325-090-5426	G742-7524564 GROMMET, RUBBER	The Ord 7 SNL's call 'em this:
276	7233	233	2330	2-33	233	35			77/2	52	45 AS	# 5
27643	G592-7723309 NUT 5310-772-3309	23308	2-3307	2-3306	23306	3		DC4	RUBBER -750	2333	4564 RUBBER	SNU:
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2.7643	723309			0	0	O S330 RETA	5330 RETA	O				
27643	723309			0	0	S330-514-4460 RETAINER, PACKIN	S330-514-4461 RETAINER, PACKIN	O				SM 9-4-5935-501 Get 'em by these SNL's Nomenclatures
		RETAINER, PACKING	Day 13 Occas	S330-514-4459 RETAINER PACKING	5330-514-4462 RETAINER, PACKING	) ING	and a	5975-771-6634 NUT, COUPLING, ELECTRICAL CONDUIT	S975-697-7860 NUT, COUPLING, ELECTRICAL CONDUIT	S975-697-7769 NUT, COUPLING, PELECTRICAL CONDUIT	S975-697-6992 NUT, COUPLING, ELECTRICAL CONDUIT	SM 9-4-5935-501  Get 'em by these ESN's and Nomenclatures
		RETAINER, PACKING	Dan Estatutes of the State of t	S330-514-4459 ORD RETAINER PACKING	S330-514-4462 ORD RETAINER, PACKING	JING ORD	ORD ORD	5975-771-6634 ORD NUT, COUPLING, ELECTRICAL CONDUIT	S975-697-7860 ORD NUT, COUPLING, ELECTRICAL CONDUIT	S975-697-7769 ORD NUT, COUPLING, PELECTRICAL CONDUIT	S975-697-6992 ORD NUT, COUPLING, ELECTRICAL CONDUIT &	Get 'em by these It  SW 9-4-5935-501  Get 'em by these It  SW's and comes  Nomendatures from
		RETAINER, PACKING WASHER, gland	Ones Bayer 12 Oces	S330-514-4459 RETAINER PACKING	S330-514-4462 ORD RETAINER, PACKING	JING ORD	ORD ORD	5975-771-6634 ORD NUT, COUPLING, ELECTRICAL CONDUIT	S975-697-7860 ORD NUT, COUPLING, ELECTRICAL CONDUIT	S975-697-7769 ORD NUT, COUPLING, PELECTRICAL CONDUIT	BER 5975-697-6992 ORD NUT, COUPLING, ELECTRICAL CONDUIT &	SM 9-4-5935-501 It says Get 'em by these It this on FSN's and comes the Nomenclatures from package:
27643	KEEP THIS LIST HANDY.	RETAINER, PACKING WASHER, gland	gland gland	5330-514-4459 ORD 7527641 RETAINER PACKING WASHER.	S330-514-4462 ORD 7716716 2 RETAINER, PACKING WASHER, gland	ORD 7716715 2 UNG WASHER, gland	ORD 7527642 WASHER, gland	5975-771-6634 ORD 7716634 NUT, COUPLING, NUT, ELECTRICAL CONDUIT coupling	S975-697-7860 ORD 7716633 NUT, COUPLING, NUT, coupling	5975-697-7769 ORD 7527645 NUT, COUPLING, NUT, COUPLING, COUPLING	S975-697-6992 ORD 7527644 NUT, COUPLING, NUT, ELECTRICAL CONDUIT & coupling	SM 9-4-5935-501 It says Get 'em by these It this on FSN's and comes the Nomenclatures from package:

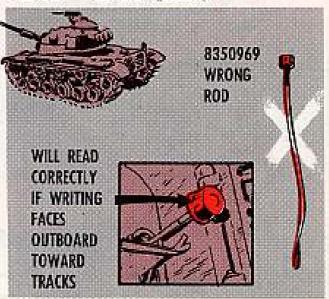


#### M60 TANK DIP STICKS

Dear Editor,

We have been having a little trouble with the transmission oil level gage rod on our M60 tanks.

It is perfectly straight and the Ord number stamped on the cap is 8350969B. However, TM 9-2350-215-20P (Oct 60) in Fig 35 Item 1 shows a twist in the lower part of the M60 transmission gage rod and the number is 8350969 without the B. Howcum? Do we have the wrong gage rod?



With our transmission oil level gage rod Ord Number 8350969B (FSN 2520-673-2973) the reading on the inboard surface of the rod (with the oil coldbefore operations) is about an inch and a half lower than the reading on the

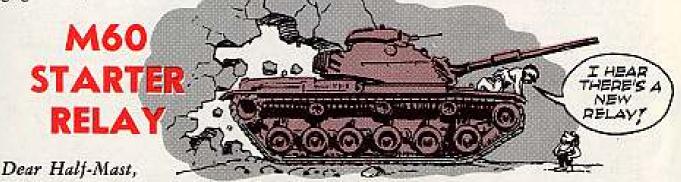
outboard surface facing toward the tracks.

According to our tests, the outboard reading is the correct one and we have gotten in the habit of putting in the gage so the marks and the printing on the tape face outboard, toward the tracks.

Are we doing right?

Lt. Jerrell Hamby APO 39, N. Y.

(Ed Note—You're right, Sir. Also, you have the correct gage rod. The straight gage rod is used because the filler pipe on the M60 tank transmission has sharp bends. The Fig in the -20P illustrates a development model that has been discontinued. The twist is OK on the dance floor but not on the M60 transmission gage rod.)



We're having some trouble with the starter relay on our M60 tank. We hear there is a new relay in the system. What is the dope on this?

CWO M. S.

Dear Mr. M. S.,

There's a new relay all right. It's Delco starter relay FSN 2920-897-6733. M60 tanks with serial number 1250 and up have it.

Tanks with serial numbers 5 through 1249 will use the Delco relay when your mechanic has installed MWO 9-2350-215-20/9 (1 Jul 62). This MWO includes a complete kit, FSN 2920-897-



6732, which contains the new Delco relay and the parts needed to apply it to the vehicle.

On tanks with serial number 1249 or below you may have the original equipment, a Leece-Neville starter relay, FSN 2920-678-4254, or you may have either starter relay FSN 5945-518-9383 or FSN 5945-612-5740 applied as part of a field fix to some tanks.

If the "field fix" was applied, remove the FSN 5945-relay and restore the wiring to its original condition before you install the new Delco relay kit.

In any case, before installing any starter relay, check with your support unit and find out which one you should mount.

A selected list of recent publications of interest to Organizational Maintenance Personnel. This is a fist compiled from recent Adjutant General's Distribution Center Bulletins, For complete details see DA Pam 310-4 with latest changes.

#### TECHNICAL MANUALS

TM 3-1040-221-12 Sep Serv Kit Port Flame Thrower-Riot Control Agent Disperser M27.

TM 3-4230-204-15 Oct Decontominaling Apparatus, Parlable, DS2, 11/2 Q1,

TM 3-4240-214-12, Oct Filter Unit, Gas-Particulate, EMD, 2400 CFM, E45R2.

TM 5-3415-200-25P, Nov Grinding Machine, Laistrand Model PLS-104.

TM 5-3655-206-20P/2 Nov Generaling Plant, Oxygen-Nitrogen, Air Producis Model Leon-20.

TM 5-3655-206-20P/3 Nov Generaling Plant, Oxygen-Nitrogen, Air Producis Model Leon-20.

TM 5-3810-226-20 Nov Crone-Shovel, Quickway Model M202.

TM 5-3825-213-20P Nov Snow Removal Unit, (FWD Model 5-349-V.) TM 5-3825-219-20P Oct Snowplow, Oshkosh Model Wr 2206.

TM 5-4120-209-20P Nov Nike-Ajax, Air Cond, Heaters, Fans & Blowers. TM 5-4310-241-25P Oct Comp. Recipi Air, SCFM, 175 PSI, Hand Trk Mid; Gas Driven [Champion Pseumatic Med LP-512-ENG) Less Engine.

TM 5-4310-242-25P Oct Comp, Recip. TM 5-6115-343-15 Nov Generator Sel, 120V, Single Phose 400 Cycle. TM 9-1220-221-20P Nov Computer, Gen Direction, M18.

TM 9-1410-500-20P/1 Nov Howk. TM 9-1440-301-20P/2 Oct Sergeant. TM 9-1430-250-20P/10/2 Oct Nike-

Herceles, Ground Equip. TM 9-1430-400-12 Oct LaCrosse.

TM 9-1430-501-20P/2 Nov Hawk.

TM 9-1430-503-20P/1 Oct Howk,

TM 9-1430-504-20P/1 Oct Hawk.

TM 9-1430-505-20P/1 Oct Howk, TM 9-1430-510-20P/2 Oct Nowk.

TM 9-1440-301-20P/2 Oct Sergeant. TM 9-2320-218-10 Oct Truck 16-Ton

M151.

TM 9-2350-215-20, -20P Oct Tank, 105 MM Gun, M60A1.

TM 9-4910-401-12 Nor Low Tens Cir. Auto Gen and Volt Reg Test Set. TM 10-200 Oct Pipefilling.

TM 10-500-13-1 Oct Rigging Radio Teletypewriter in M38AF

TM 10-8340-204-10, -23 Oct Tent, Gen Porpose Lg; Gen Purpose Med. TM 11-5820-398-10 Oct Rodio Sel ANI/PRC-25

TM -11-5820-498-10/20 Nov Rodio Sels AN/VRC-53, AN/GRC-125 & Ampliffer-Power Supply Group OA 3633/ GRG

TM 11-5895-294-20/2 Nov Coder Decader Greep, Maintenance Illustrations and Interconnection Usis

TM - 11-5965-209-15P Nov Headsel H-32/U & H-32A/U.

TM 11-6190-231-14 Nov Power Supply-77-3135/U.

TM 11-6130-231-20P Oct Power Supply FP.3135/U.

TM 11-6625-490-20P Nov Preumpli-Met AM-1839/USM

TM 11-6625-504-12 Nov Standing Wave Ratio Indicator 1M-166/URT. TM 11-6625-514-12 Nov Test Set Elect Circuit Plog-In Unit AN/GRM-55 IM 55-450-6 Oct Recovery Vah, Full-Tracked, T120FI, in USAF C-124,

TM 35-1510-202-20F Oct (Q-1) TM 55-1510-204-10CL Oct (DV-1). TM 55-1520-202-207 Oct (CH-34) TM 35-1520-204-207 Oct (OH-13)

TM 55-1520-206-10 Oct (OH-23). TM 55-1520-207-20 Sep (UH-1A) TM 55-1520-208-10CL Oct [UH-18].

TM 55-1520-206-10CL -20P Oct (UH-18)

TM 55-1520-208-20 Sep (UH-10) TAL 55-1520-208-20P Oct (UH-18).

#### MODIFICATION WORK ORDERS

MWO 9-1450-500-20/9 Oct Howk, Looder Transporter

MWO 9-2300-224-20/8 Oct 52 APC M113 Relocation of Bilge Pemp Vent. MWO 9-2300-224-20/9 Nov Carrier. Personnel, MI13; Repl of Eng Mt Aubi

MWO 9-2300-224-20/10 Nov Conrier, Personnel, M.113, Appl of Vinyl to II Or Housings.

MWO 9-2300-211-20/5 Nov Chassis, Trk: 5-Ten M39, M4D, M4DC, M61, M63, M63C, M139, M139C, M139D M139F, Trk Corgo: M41, M54, M55 Dump, 5-Ton M51. MWO 9-2320-218-20/6-20/7

Truck Willon MIST MWO 9-2350-215-20/3 Oct Tonk

M60. MWO 9-2350-215-20/11 Nor Tank,

M60; Ammo Rock Ir and Ret Ends. SUPPLY MANUALS

SM 3-2-4230 & 4240 Nov F5C 4230-Decontomination, 4240-Salety and Rescue Equipment.

SM 10-1-C6-2-SM, Vol. 1 Jun FSC Class 3920 Materials Handling Equip-

SM 10-2-C6-4-PL Jan FSC Class 5110 Hand Tools.

5M 10-2-C6-6-PL Jan FSC Class 5130 Hand Tools, Power Driven

SM 10-2-C6-8-PL Jan FSC Closs 5210 Measuring Tools, Craftmen's. SM 10-4-4520 Dec Heater, Space.

#### MISCELLANEOUS

DA Cir 95-5 Nov List of Army Airfields and Heliports CONUS. DA Pom 310-4, C3 Oct TM Index DA Pom 310-7, C1 Oct TAG TOE FM 20-22 Oct Vehicle Recovery Oper-LO 5-3431-202-20 Oct Welding Machine ARC, Hobart Model GBB31835. LO 5-3805-209-15-1 Nov Grader, Road, Caterpillar Model 12. LO 5-3805-209-15-3 Nov Grader, Road, Coterpillar Model 12. LO 9-2300-224-10-1 Oct APC MITS. 5B 1-15-15 Oct. SIG 7BB AM-1909/FSG-1 Oct Amplifler-Mixer, Tog Intensity AM-1909/ FSG-13 51G 788 OA-2393/FSG-1 Nov Molliplexer Group OA-2393/F50-1. TB AVN 23-5-1, C3 Nov EIR Digest. TB 9-2350-205-12/1 Oct 62 Tank MARAI compensating idler. 18 34-9-124 Nov Airplane, Observation Series. TB 55-1510-206-20/2, -20/3, -20/5, and 20/6 Oct (CV-2).

TB 55-1520-207-20/2, -20P Oct

(UH-TA).

#### COMPANY'S COMING

That's right . . . you Honest John outfits—if the serial number on your M386 truck mounted rocket launcher's between 11 and 112-company's coming—if it hasn't arrived already. It'll be your support outfit to apply MWO 9-1055-205-30/5 (31 Jan 62). It provides a blast hood that'll give a little extra protection to the main junction box cable at blast-off.

#### SWIMMING LESSON

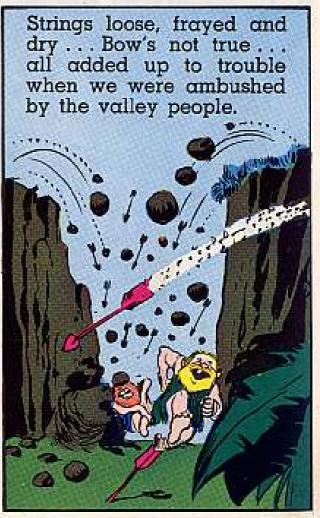
When you're taking an Ordnance vehicle for a swim, you'll first want to give your eyes a quick dip into TM 9-238 (6 Oct 61), "Deepwater Fording of Ordnance Materiel." It could save your sacroiliac when you're crossing streams or swamps. It lists both water-proofing materials and pubs you need.



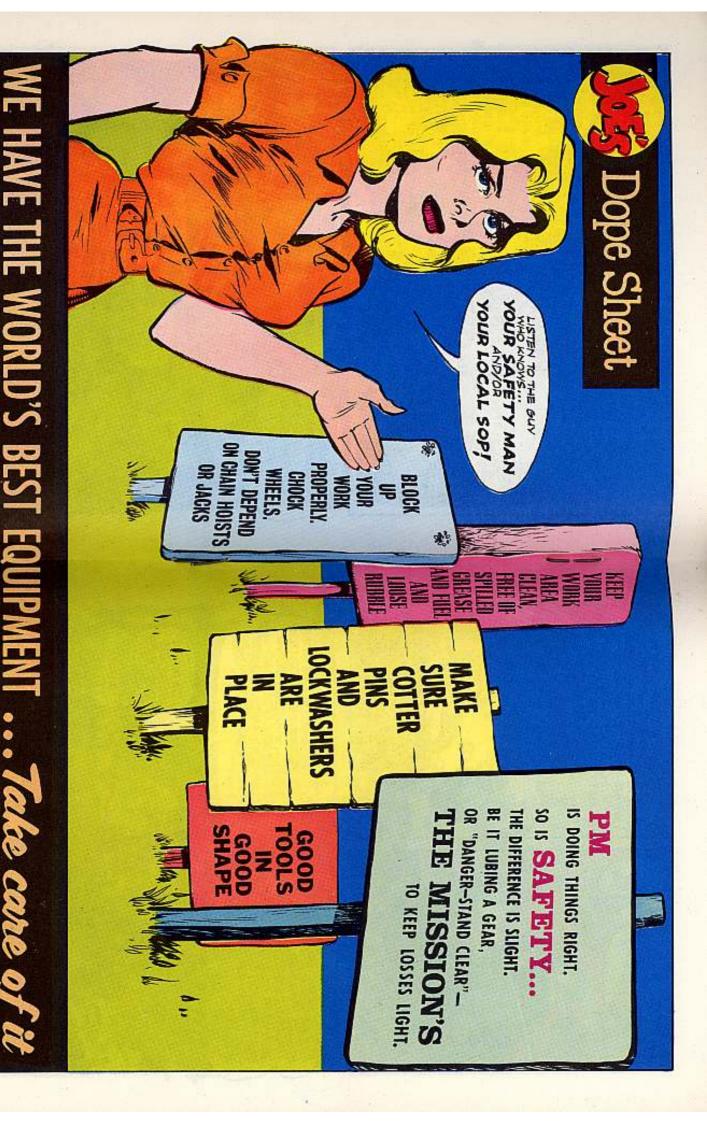








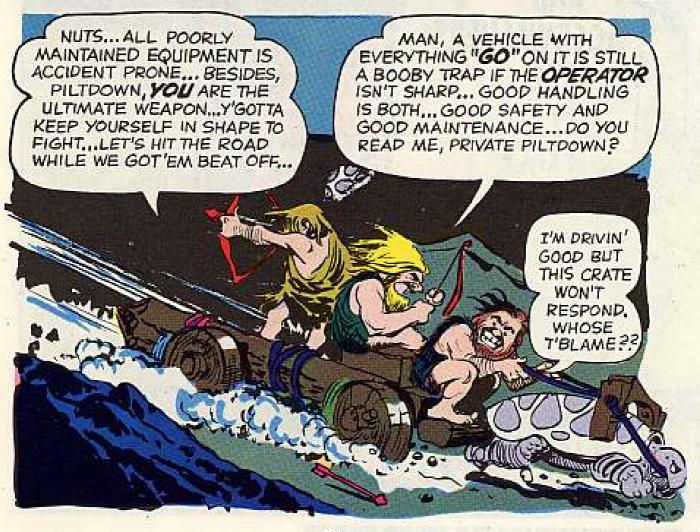




IF YOU WANT TO DISPLAY THIS CENTERPIECE ON YOUR BULLETIN BOARD, OPEN STAPLES, LIFT IT OUT AND PIN IT UP. ... Take care of it













Using an adjustable wrench on the Bird Dog (O-1) engine oil pump screen cap can be a knuckle bruising job. You don't have much clearance to maneuver the wrench.

Then again the square head cap just naturally takes it on the chin when the strainer is taken out at a periodic inspection.

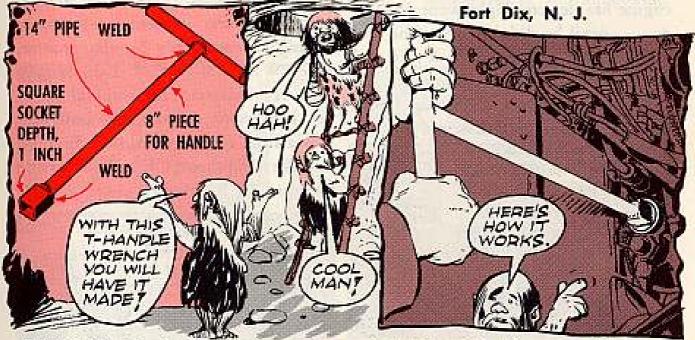
Well, that's the way it used to be here until we came up with a T-handle

wrench with a socket to fit the cap.

We made the square socket from 1/8-in stock to a depth of one-inch. This gave us plenty of room to weld a 14-in length of pipe into the socket. To complete the tool we welded an 8-in handle at the other end.

No more bruised knuckles and banged up fittings for us. This tool does a terrific job.

SP5 William G. Wood



(ED NOTE—Looks like you've got a good bet here. By the way, when you finish your inspection, TM 55-1520-202-20, page 3-29, paragraph 3-63, has the cleaning setup for the strainer.)



gratulations! your Iroquois (UH-1A) and you say it's a masterpiece of maintenance. Con-So you've just pulled a periodic on

extra care with your inspection can help prevent awkward situations like these. tantrum of user problems. Just a little a high-time bird's bound to throw a But before you sign 'er off remember

a fire or not! So he played it safe and on . . . until he didn't know if he had engine fire detector light went on-offgot his bird back to base pronto. A pilot was cruising along when his

that the detector cable assembly on the On the ground the crew chief found



ing light. linear actuator, setting off the fire warnleft engine cowling was rubbing on the

> everyday will make sure the cable clips are in there doing the job-holding that cable so it won't vibrate loose. 'Course giving this cable the big eye

> > REVERSE GROUND

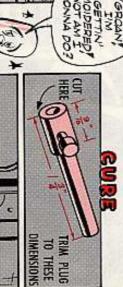


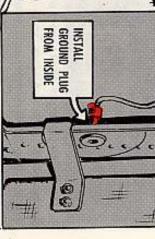
take forward thrust OK but put a little was a little on the weak side. It could belt bracket on the aft cargo bulkhead Sept 61) indicated, the original safety during an emergency for that matter. pressure on it sideways-and snap!!! Like TWX TCMAC-EHU-1-09-0403 (6 your rear seat passengers in place You could have a problem holding

same thing.



a problem. Somebody could come along cable, a connecting cable and jack plug. and slide the cabin door back into the if you try to get at the heater with the plug and bust the plug and jack. Or, But here again you've got a little bit of heater access door withour doing the jack plugged in, you can't open the bird in a hangar is with an overhead One of the best ways to ground your over the fastener OK-but when the when the door is opened it will ride door is closed you'll be minus one insert the grounding plug in reverse grounding plug and cut it off at the you might try this for size. Take your fastener. the heater door fasteners. Otherwise, Also, you want to make sure you secure (from inside the heater compartment) base so it measures 13/4-in. Then you To get around this pinch problem





MORE

HEATER

DOOR

38

#### TOO MUCH OR TOO LITTLE

A bird just naturally has to have the right amount of lubricant to stay in the boots. Then you won't get the bind in your collective and throttle that you usually get with dry tubes.



pink. Too much lube—or too little—and she'll likely end up out of shape.

That's why, for example, it's important not to over-lube the swash-plate and support assembly. If you over-lube, the old principle of hydraulic pressure could come into play and crack your dust cover.

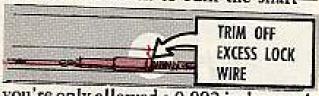


Never get caught short on not enough lube either. Always keep a smear of lube on the droop compensator tube and the power lever tube at the



Other parts that should get the big look when checking your tail rotor drive shafts are the Marman clamps. They should be positioned 90 degrees to each other on each shaft and the bolt nuts should trail shaft rotation. Without this rotation you could come up with a mighty annoying high frequency vibration being transmitted back to your tail rotor pedals. The No. 5 shaft can be a real vibration headache.

Another thing while we're talking about the drive shaft—be sure you have the excess lock wire at the quick disconnect (No. 4 shaft) cut off and the remaining tail bent away from the shaft. Otherwise, movement of the rotor cable with the lock wire sticking out can scratch the drive shaft for real. It doesn't take much to ruin the shaft—



you're only allowed a 0.002 inch scratch
. . . Chapter 2, Section VI, page 6-3, of
your maintenance manual.

So-o-o . . . next time you pull out your TM 55-1520-207-20 for a periodic, take out your magnifying glass and go over your bird with a finetooth comb. Finding problems before they become serious could save a life . . . maybe your own! SIGNALS CROSSED

A guy tryin' to pick up a doll (or is it the other way 'round?) and a crew chief trying to help an aviator pick up a cargo have something in common they need to understand each other.

But they get nowhere if their signals are crossed! Take those hand signals you use to move a chopper into position over cargo. If you wave your arms all over the place, the aviator won't know what you're trying to say, which could make for some hair-raising moments!

Chances are you won't get your signals crossed if you stick with the ones called out on pages 137-172 in the latest FM 21-60 (25 Jan 62) on "Visual Signals."

Fact is you'll find all the signals you



need in this FM, not only for cargo hookup, but for guiding rotary and fixed wing birds on the ground . . . maybe help prevent personal injury or some bent aircraft parts caused by taxi accidents.

Dear Editor,
We had a recent problem with the engine

We had a recent problem with the engine tachometer generator drive shaft snapping on our Choctaws (CH-34's). This was caused by the tab lockwashers not holding the housing screws tight.

Any little movement of that assembly would snap the shaft real easy like.

So in case anybody else has this problem, here's a way we found to lick it.

You just take those four 8-32 NC 3Ax3-1/16-in or similar commercial screws out and drill the heads for lock wire . . . or get yourself the same size screw (through local purchase) with the hole already drilled.

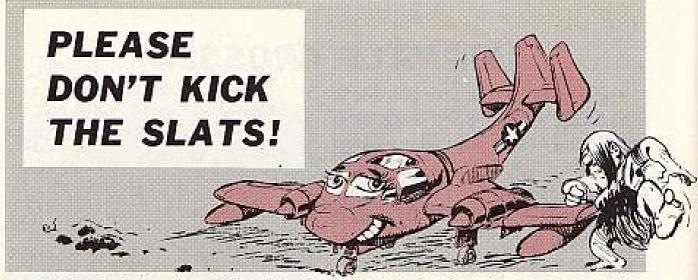
Then you put the drilled head screws in the tach generator and lock-wire them in pairs. The screws will then stay in place for keeps.

> S/Sgt. Joseph A. Pahl Ft. Knox, Ky.

LOCK-WIRE THE

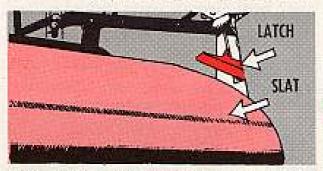
SCREWS IN PAIRS.

(Ed Note-If you're snapping cables, this looks like a good repair . . . all you need is your CO's OK. And don't forget to EIR your solution, too.)



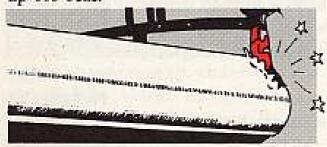
A kick in the slats just ain't polite in any sport and it's definitely not called for on your Mohawk OV-1A and some of the early A and B models. As a matter of fact it can temporarily put a bird right out of the 'ol flying game.

The villain that can supply the boot to the wing slats is this innocent look-



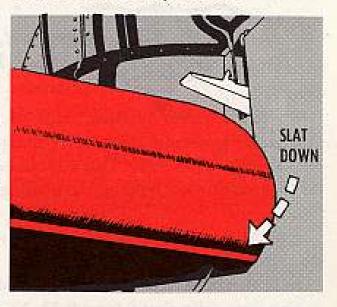
ing engine cowl lower latch. She won't cause you any trouble as long as you check your flap-slat operation with the cowl and latch closed.

But brother—if you hook up auxiliary hydraulic pressure and hit the flap control with the cowl still open, look out!!! The slat will bend that rear cowl latch into a pretzel and tear itself up for real.



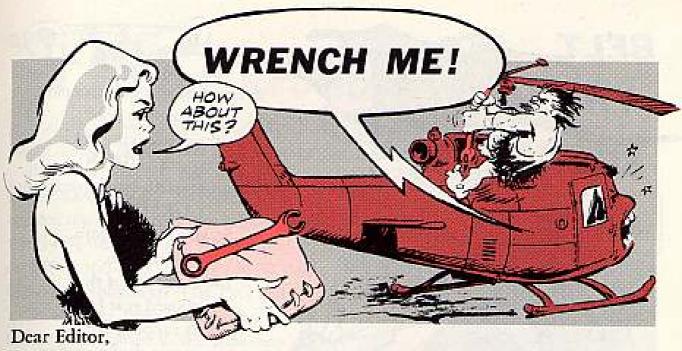
'Tain't hard to figure, either. Even with the cowl and rear latch secured there's very little clearance between the clamp and slat. So when the cowl's open, the spring-loaded latch sticks out and is a natural to hook the slat.

One of the best ways to guard against hooking a slat is to lower the slats past the latch before you start your maintenance on the early models.



No sweat on later models—they have a better latch that stays flush with the cowl so the slat won't hook it.

But to be on the safe side when checking, take a gander at the engine cowls to be sure they're buttoned up . . . wouldn't want your bird to be the one sidelined with injuries!



Anytime we removed and replaced the igniter plugs in our Iroquoise (UH-1A) for an engine change or replacement of a faulty plug, it was the same old story—what wrench to use so the plug or lead elbow wouldn't get damaged!

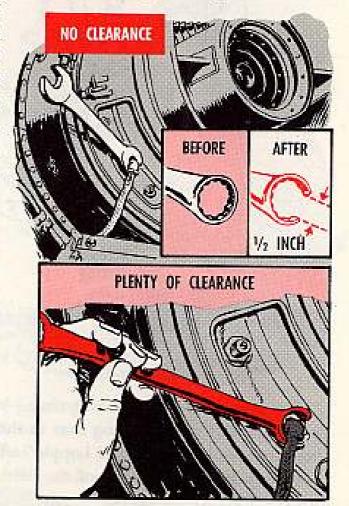
We tried a standard open-end but there wasn't enough clearance to get a grip on the plug. The wrench was too thick. You either had an interference problem at the housing or at the plug lead elbow . . . other open-end adjustable wrenches weren't any help either. And if you jam a wrench in there, the elbow really takes it on the chin.

What was needed was a special wrench. And since there isn't any such animal in our organizational tool kits, we made up our own.

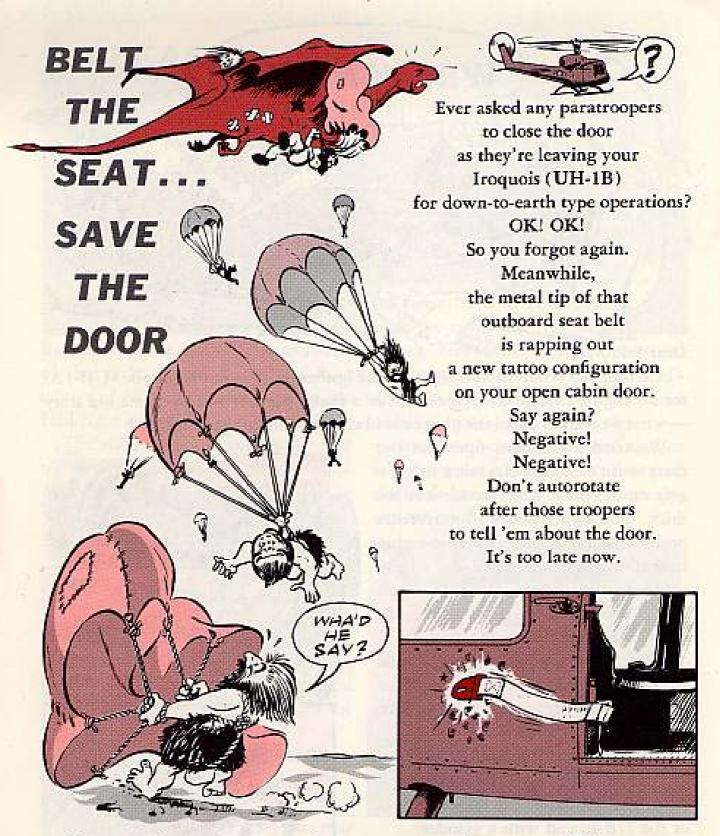
We got hold of an old, damaged 7/8 x 3/4-in box wrench and took out a half-inch wide piece from the center of the 7/8-in end with a grinder.

We haven't had one clearance problem with our plugs since we made up this thin-walled open-ender.

> Sfc. James W. Reed 2nd Avn. Det., West Point, N. Y.



(Ed Note—Sounds OK for an interim fix as long as it's a spare wrench that gets the surgery . . . wouldn't want a tool in your kit to look like something it shouldn't.)



But next time—repeat next time—you can add to your pre-flight passenger briefing that troopers sitting next to the cabin doors are expected to fasten their belt around the seat before hoppin' off the bus. Just laying the belt ends up on the troop seat lets one end of the belt slide off and out into the fuselage slipstream. Rappity-tap-tap!

Same thing happens during jungle operations with combat troops preparing to rappel to the ground with the old rope trick.

Remember! Tell 'em before they leave . . . "Belt the seat!"

# A LITTLE RED DAB'LL DO YA

Masking tape, paint brush, red paint and a steady hand-that's all it takes!

For what? Why, for indexing the sleeve flange to the extension tube on the tail rotor drive tube assemblies, FSN 1560-694-4656 (P/N 47-640-055-1) or FSN 1560-650-7002 (P/N 47-640-055-7), of your Sioux (OH-13G and H).

Seems that some of the spot welds holding the flange to the tube may not be quite up to snuff. But the red index, will let you know on each daily inspection if there's any movement of the flange-natch.



# AV GAS SWITCH

Dear Windy,

TWX TCMAC-EM-05-02168 (18 May 62) says that the TBO for our Bird Dog (O-1) is shortened from 1200 to 700 hours after switching from 80/87 to 115/145 Av Gas. No sweat there.

But after racking up 100-odd hours using 115/145 on TDY we had to go back using 80/87 because we couldn't get the richer stuff at our commercial field.

So how do we figure those 100 hours on 115/145 toward the TBO?

Sp 5 B. D. S.

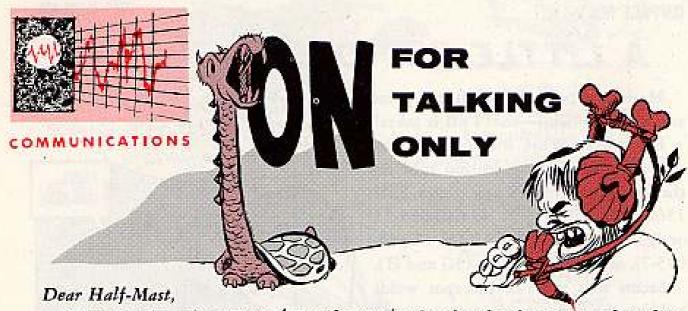
Dear Specialist B. D. S.,

Just add the 100 hours on 115/145 toward your normal 1200-hour TBO. What you'll wind up with is 1100 hours on 80/87 and 100 hours on 115/145. The TWX says you can have a total of 700 hours using the heavy leaded bird juice.

Here's a couple of other examples of figuring TBO that may come in handy. Say you have 300 hours using 80/87 and then you switch to 115/145. Since you're only allowed 700 hours on 115/145, your TBO would be 1000 hours.

'Course if you use 115/145 in a Bird Dog that just came out of the overhaul





We use quite a few H-144/U and H-81/U handset-headsets in our battalion, but we're having trouble keeping 'em operating because the microphone elements give up on us. They just seem to lose their effectiveness once they're in use.

Also, I don't think the new H-144B/U's are as good as the old ones. The plastic push switch gets broken a lot more often. Any new dope on this?

SFC R. T. T.

Dear Sergeant R. T. T.,

Chances are you're operating those sets with the push-to-talk switches locked ON. This is not so bad by itself . . . but it sure sets up a situation that can take a turn for the worse. The microphone element is made of carbon, which sorta bugs out when more than four volts DC is applied to it. And it bugs out quite a bit faster if the mike has been locked down under power for long periods.

So, first of all, check your power source and make sure the sets are not getting any more than three or four volts. And whenever possible, keep the switch unlocked and use the push-to-talk method the way it was meant to be used.

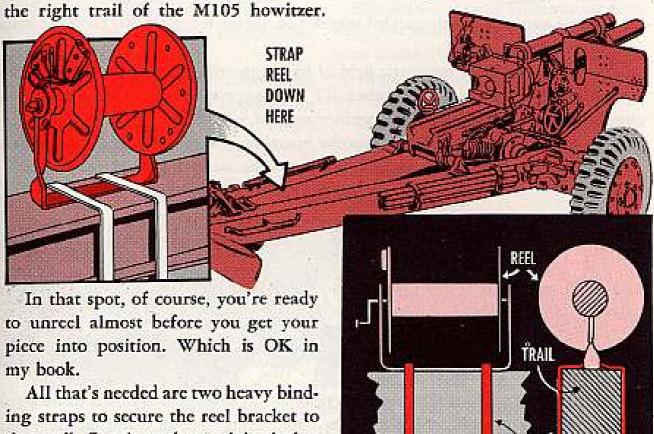
As for the new H-144B/U's, you're right. The switch lever's not very rugged . . . but they're already working to improve it.

TRY NOT TO LEAVE ARBON ELEMEN BUGS OUT FAST VITH MORE THAN 4VDC. USE PUSH-TO-TALK METHOD LOCKED DOWN



Anything that speeds up wire communications suits us neat, and we figure other outfits share those sentiments. So here goes.

It's all about the RL-39 reel, with a DR-8 spool and MX-155/GT switching kit attached to it. Batteries in our unit are mounting that assembly directly on



the trail. Put 'em about eight inches apart.

It holds the reel real tight-and still can be put on and taken off pronto without so much as scratchin' the paint on the trail.

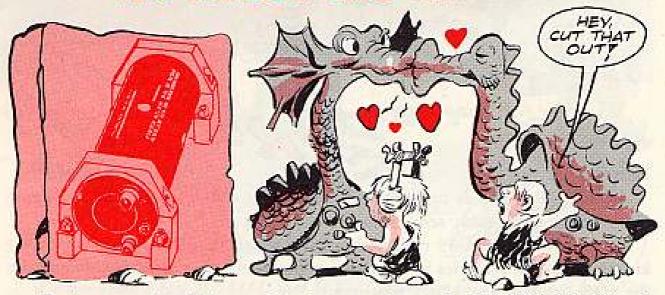
Our CO sounded out "affirmative" loud and clear, and we've been reeling in good results ever since.

> Sqt. Russell Quaccia Raritan Arsenal, N. J.

BINDING STRAP

(Ed Note-No doubt about it, Sarge, you're on the right trail to speedy wire communications. But since no official word ever came along about mounting the reel directly on the howitzer itself, a temporary mounting like yours will always need a loud and clear approval from the unit commander.)

## NO MAGNETIC MIXING



You've gotta be a little careful where you locate the RT-540/DPN-62 radar receiver-transmitter.

You don't want the magnetic field of its magnetron playing footsic with any other magnetic field from another RT or magnetic source. This weakens the magnets and cuts down on the performance of your RT.

The side of the RT-540 that has the magnetron is marked, and you want to keep it at least 2½ inches away from any other magnetic materials.

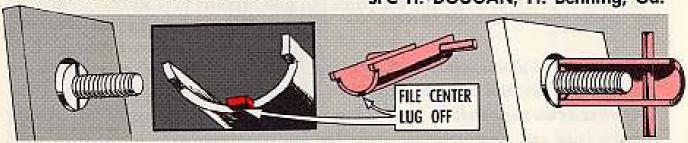
## THE RIGHT TOOL

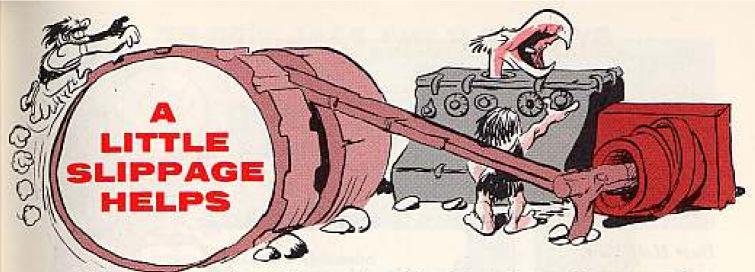


Keeping the anchor bolts tight on our LS-166 loudspeakers used to be a pain until we came up with this little idea. We found that by filing off the center lug on the smallest of our spanner wrenches, it'd just fit the anchor bolt screw. It doesn't put the wrench out of action, either.

Until we tried this, we used to foul up the loudspeaker screw by trying to use a screwdriver and hammer, etc.

SFC H. DOUGAN, Ft. Benning, Ga.





When you're staring at 'em eye-toeye, the kilocycle and megacycle change knobs on your R-390/URR radio receiver look just like a lot of other knobs. A little unusual in size, maybe, but otherwise pretty common.

Ah, but behind those unblinking knobs lurks a clever bit of engineering your set may be missing out on. That's the stop-releasing device designed to

KNOBS SHOULD TURN AFTER EXTREME
DIALING
MESACYCLE CHANGE

allow the knobs to slip or turn after you've reached the end of the frequency bands.

The knobs should continue to turn with just normal pressure to keep you from accidentally over-riding the pileup stops and causing all sorts of expensive trouble in the Vfo subchassis.

This built-in slip action saves a lot of wear and tear on the pile-up stops but only when the knobs are properly adjusted for it.

If your knobs aren't slipping like a good knob should, tell your repairman. He'll take his long, slim screwdriver and adjust 'em so they'll carry the load—but still slip rather than put more pressure on the stops.

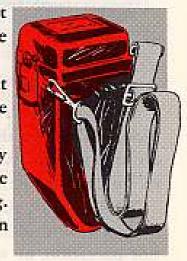
### A CASE SCRATCHED

One case scratched is just about what you've got the first time you get careless with the hard plastic case for the TA-1/PT Telephone.

Of the three types for the TA-1/PT, the hard case is about the easiest to break. But, when it's workin' for you, it'll give its all to protect the telephone.

A short drop or a sharp crack any time of the year may fracture it, but the case needs extra care in cold weather. The cold makes it brittle, and brittle jobs need careful handling.

So you might try some extra gentleness in winter—even when you're just settin' it down.





We seem to be having a little trouble with our cases, CY-1277A/PT, for telephone set TA-312/PT. When they get damp or wet they shrink so much the zipper won't close. Is there, or has there been a solution to this problem?

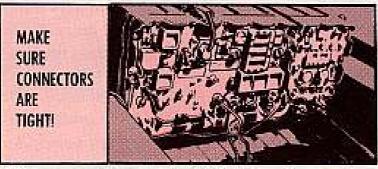
SFC T. H. M.

Dear Sergeant T. H. M.,

There's a fix for this in TB SIG 213-31 (25 May 60). It calls for sewing in a one-inch wide strip of webbing on each side of the zipper whenever the zipper has to be replaced.

This work is generally done at the support level, so about the only thing you can do is turn in the shrinking cases for newer ones, and let the support unit have a crack at fixing up the shrinking violets.

# HOLD YOUR WATER, MUSCLES



casy with the muscles. Just enough pressure to snug 'em. Too much, and you're liable to rip out some insulation.

Like when you're washing your vehicle, make sure the cable connectors out are snugged up. Water loves to get in

Those connectors on your radio set are finicky things. They like to get

screwed up snug . . . but not too tight.

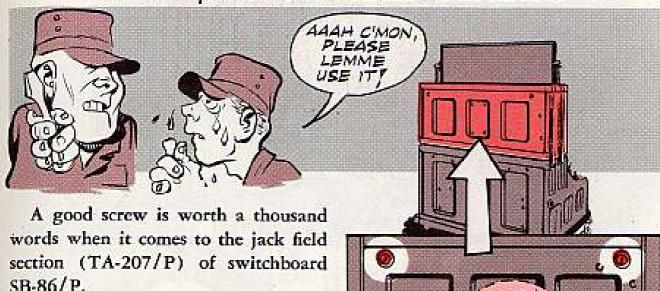
And they don't like water!

receptacles and pull a corrosion act.

While you're snuggin' up the connectors (for washing the vehicle, routine operation, or what have you), go Insulator trouble or corrosion can put you in the same kinda shape . . . like out of business.

'Nother point to ponder. When you're washin' your vehicle, keep that high-pressure water away from the radio set. It operates best when it's high and dry.

# SB-86/P JACK FIELD SCREWS



If the rear cover Camloc fasteners and the screws to the battery and spare part compartment get buggered up, it takes a major operation to get 'em out, so you can replace parts.

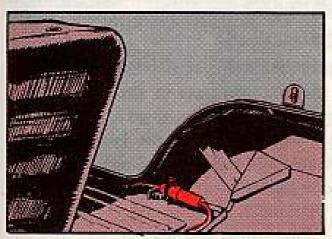
And it's mighty easy to damage the screw heads when you don't use the right screwdriver.

Since you're not issued a screwdriver with the equipment, you'll have to get one from the mechanic . . . or else have him do the unscrewing for you.

No matter how you try to improvise a screwdriver, the chances are you'll foul up the screw heads and cause a lot of sweat all around.

So if you don't have the right tool, send for the man who has.





That radio set in your G740 or G758 series vehicle is a particular lady in her feeding habits, and she might get a little burned up if you slip her a substitute.

She likes to get her juice thru her own specially designed kit . . . which goes by Radio Power Feed Kit. The RPFK is a cable assembly which goes between your radio set and the vehicle battery, and it's important. MWO ORD G1-W105 (8 May 57) gives you the kit and installation instructions.

The kit eliminates tying into the battery with direct wires—a fire hazard, among other things.

FSN 2590-693-4224 will get you the kit from Ordnance.

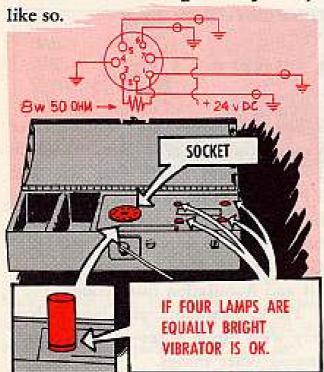


Dear Editor,

Any time the PP-109, 112, 281 or 282/GRC power supply for your vehicle's AN/GRC or AN/VRC radio goes on the blink you've got your work cut out for you. Checking out the circuit and substituting parts is no small job.

We've found that most of the time the trouble is caused by the vibrator. What can happen is that a sudden surge of current will cause the vibrator reeds to bend beyond the normal vibrating range, coils to short out and points to burn or freeze.

To save a lot of time and elbow grease we made this simple 24-volt tester in only a couple of hours for checking 6.5-12 and 24-volt vibrators. All we used was an electron tube socket, FSN 5935-171-3129, four LM-38 or No. 313 lamps, FSN 6145-155-8714, three feet of No. 18 AWG wire, six feet of rip cord wire and two suitable alligator clips. Any sort of chassis will do. The wiring goes



To use the tester you hook it up to the 24-volt power supply of your vehicle with the alligator clips, plug in the vibrator and check the brightness of the lamps.

If the four lamps are equally bright, the four contacts in the vibrator are OK so you've got a good one. But if any one or all of the lamps are not equal in brightness, or one or more of the lights are out, you've got a bum vibrator.

She works real fine.

Charles E. McDonald, NY ARNG Camp Drum, N. Y.

(ED NOTE—Looks like a handy little gem to have around. You could also use it to check for a possible "dud," fresh out of a new container.)

# LOOK-ALIKE DUMMIES

Ever hit a thin wire brad with a 12pound sledge?

Well, slugging the RT-70/GRC Dummy Antenna Milliamperes Meter with the load from a RT-66, -67 or -68/GRC Radio Set will get you about the same results.



One worthless meter or one worthless brad . . . it's all the same, Sam.

The RT-70 radio set is a low-power job, with Dummy Ant Meter geared accordingly.

But the whack the medium power RT-66 thru 68 gives its own Milliamperes Meter is 16 times harder than the meter for the RT-70 is built to take.

Like so . . . the RT-70 Dummy An-

tenna meter takes shots from 1/2 to 1 watt. The RT-66 meter range is 2 to 16 watts. Feed those big ones to the RT-70 meter and you'll damage it every time. If she don't blow fast enuf, the damage is gonna be bad!

Using the RT-66 meter to get a reading from the RT-70 radio set would give you a reading so low that it wouldn't do a bit of good. Might make you think the RT-70 is on the blink, tho.

Both Dummy Antenna meters look alike and are mounted in similar boxes. But . . . lest you tear your hair and grind your teeth worryin' over which is which . . . there's an easy identification.

Every meter box has a nameplate just above the meter itself. One look will tell you whether it's for the RT-70 or the RT-66 etc. The right set will be identified just under the words "DUM-MY ANTENNA."



We are having trouble locating the right part for the projector AS-2(1). This projector has a new-type input connector receptacle, FSN 5935-092-1032. Every time we order the connector plug for it we get the old type, FSN 5935-201-7902.

What we need is the P-P3 socket insert assembly to replace the old P-3. Is there an FSN for this new assembly?

Dear Sergeant D. J. K.,

Sgt. D. J. K.

The P-P3 socket insert assembly you need to change the connector plug from non-polarized to polarized goes under FSN 5935-092-1033, Cannon Part No. Half-Mast 20494. It's a Signal item.

53



There he sits.

every day, for as long as you want him ears while you save yours for other wants you he'll let you know . . . fast. to, he strains his electronic eyes and Patiently . . . around the clock . . .

His sole purpose is to keep you in busiwatchman he is . . . he never sleeps. Rover, because . . . like the super He's more dependable than Old

0 (S) 0 RECEIVER R-417/TRC TRANSMITTER

spend a minute or two putting him on ness. All he asks in return is that you the job. Then, you forget him. If he

ent of your radio set series AN/TRC-Set Group OA-1387/GRC-a compon-TRC and R-417/TRC setup in Radio Power Alarm System for your T-302. 24, AN/MRC-54 and AN/MRC-69. Set cost-wise and otherwise. him, and the lesson can be expensive, can save you a burned out set. Ignore your electronic watchman up, and he That, in short, is the story of the Low

a failure is indicated in the transmitter RF power output. when the current (proportional to the ties take a second to outline: F'rinstance, RF power to the antenna) gets too low, This easy-to-set-up watchman's du-

cuit closes, his buzzer sounds and his before it gets serious. nin' over and trace down the trouble lamp lights. Naturally, you come run-Bingo! The watchman's alarm cir-

Now let's say you didn't take time

other damage. maybe check it every 3 or 4 hours while tune up the transmitter (T-302) and to put your watchman on the job. You forces others to burn out . . . or causes But, while you're gone, a weak tube you work on something else nearby. lowers the power output. The tube

out power. You're in for real trouble. find the radio set smoking . . . or with-You come back at "check time" to



warn him of trouble on his set. alerts you. You can give him a call and 417), which helps you protect your clude the alarm on the receiver (Rhe goes off the air, your alarm buzzer buddy's set at the next relay station. He may have forgotten his alarm. If Those coupla minutes, of course, in-

Para 40, page 62, and para 47, page

both components. 64, of TM 11-5820-287-10 give the lowdown on setting up the alarms on

step. Otherwise, you may damage the turning the TEST switch to FWD step in the transmitter procedure. After PP-685 power supply. PWR, wait a minute before the next Pay particular attention to the 4th



receiver. Rotate the SQUELCH control Same goes for the 3rd step on the

ROTATE SQUELCH CONTROL



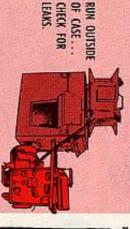
ALARM indicator lights. counterclockwise slowly . . . and STOP as soon as the buzzer sounds and the



the posterior. potent power-or a puzzling pain in sets can be a 60-pound package of with your AN/TPS-21 and -33 radar That PU-422/U generator you use

on the right foot or not. It all depends on whether it gets off

little package. right off to get on the good side of this Here're some things you want to do



outside of its carrying case. This'll give mighty unpleasant action. outside. But any leakage when it's inwhich are bad enough when the set's you a chance to check for fuel leaks, side the case is a sure setup for some First of all, give the set a trial run

as they say. The rectifier-diode assemtime the tactical situation permits . . . operate the set outside of the case any As a matter of fact, it'd be smart to

> is operated inside the case. cause of the heat build-up when the set known to fail . . . and it could be bebly, FSN 6130-823-2188, has been

Which is just what you don't wantupsets this O-ring can cause a fuel leak. valve has an O-ring that should be eyering's clean and scated right. inside or outside the case. Make sure the balled real close. Any dirt or gook that The quick disconnect fuel line check



sistor of about 60 ohms, 250 watt rating to

with about one-half rated load. Use a re-

For the next hour, operate at rated speed

get the one-half load

nut for the main metering valve. Look it over real close and tighten up if leakage is around the packing gland Another place you might get some



posed to be able to operate at full rated Even though your generator is supmight say. good. Your TM doesn't call for thisgasoline . . . and make sure it's mixed of engine oil to each two gallons of 18 ounces. freezing and OE10 below. She'll hold ing good idea. Almost necessary, you but experience has shown it's a spank-You use OE30 engine oil above Add a half-pint of the same weight

you can trust her.

the oil level every hour until you feel eight hours of operation . . . and check bedside manner. Change the oil every

load when you get it, it pays to start For the first half hour, run it at one-hall For the next half hour, try it at full rated carburetor and let the engine use up down, cut off the fuel supply to the the fuel line so that no fuel can leak the remaining fuel. Then, disconnect important, too. When it's time to shut Here's something else that's mighty

slowly and work up to full load

rated speed with no load

speed with no load.

into the carrying case. DISCONNEC

doesn't seem to do the job. you might get a replacement carb that Speaking of carburetors, could be

goes under FSN 6116-897-5401, Admiral Corp P/N 5550220-1. The carburetor assembly you need

ment may not do the job. Use the other one. the generator-but replacement carbuone was modified when it was put into retors were not. So your B&S replaceretor Assembly FSN 2910-K68-0045, Briggs & Stratton P/N 296108. This What you may have gotten is Carbu-

every 15 hours and to change oil every

Changes 1 and 2, tells you to add oil

Now your TM 11-5840-229-15, with

30 hours. All well and good when your

little number is all broken in and hot



want to make a little more with the

But for the first 50 hours or so you



underpinning. tions that could shake the bridge to its setting up a series of rhythmic vibra-

or hardtop, with nothing to cushion the those sitting around on concrete floors power units and generators. Especially what they can do to your engine-driven do that to that big ol' bridge, just think shock. Well, if those little ol' vibrations can



and smaller. This is especially true of those 15KW that's what-and in pretty short order. pile of throbbing and gasping metal, They can reduce that generator to a

in mind that they'd be operated in a shocks of the vehicle. get the benefit of the tires, springs and units were designed with the thought trailer or truck. This way they could Some of these generators and power

All well and good.

unit on the cold-cold ground, hardtop But when you have to operate the

> things start happening. or concrete floor, some mighty nasty

ful mood. But that hard-hearted ol ground in a perfectly natural and playdown and around the frame to the up the frame they go, building up It says "beat it, buster," so right back ground refuses to pick up the cadence. place to go. They start pitty-pattying power like steam in a boiler. The vibrations start looking for a

it's their sudden stoppage. their movement that hurts so muchback up they're giant killers. So it's not But when they're forced to stop and when they're free and unhampered. Now, vibrations are bad enough

consequences. have one big ace up their sleeves-they looking for the panic button. And they up, they get a little frantic and start their business. But when you bottle 'em path to follow so they can go about with 'em or your equipment suffers the can't be stopped. You either play along All these vibrations want is a little

So how do you play ball with 'emi

operate your unit from a surface that can. That is, you do your darndest to outlets for their playful vitality as you Well, you give 'em as many healthy

WANT TO



FIRE FROM

cushion the vibrations by picking up the cadence. has some "give" to it so that it'll help

concrete or hardtop . . . and soft, freshly works wonders . board or two under the skid or frame loosened ground is better yet. A The hard ground is much better than

should use material that won't get surface is well worth the effort. But you soaked with fuel or engine oil. you can think of to pad out that hard 'S matter of fact, just about anything

you're the odd man out. They're sorta sorta deadly game of musical chairs. But if they don't find a place to squat, spoiled that way. With vibrations you're playing a



Smog isn't always on the outside.

You ever walk into a building where a welder's torch was stirrin' up so much dust, smoke and poison fumes you could slice the air with a knife? Breathing that inside smog can put you on sick call—for real.

Anybody can come up with a room full of smog. All it takes is some Joe coming up to you with a simple little welding job that he'd like you to rush through. You get the urge to fire-up just to get the guy out of your hair . . . without bothering to turn on the ventilating fans, or open windows and doors, etc. Fumes in any amount just ain't healthy—they gotta go!

But gettin' rid of fumes is only one of the safety precautions you should take before you fire the torch.

CLEAN THE AREA

Take a look around your building!
There should be no flammable material
like cotton waste, oil, scraps of wood or
gasoline in the room. Flying sparks can
set this stuff off before you know it.

Make sure there's no wet-type batteries in sight either . . . the gasses from them can explode and cause a fire.

Hot metal drippings have started give you the memore than one type of fire... you ever For the proteget welders' hot-foot? You know the the area it's a go kind—you're goin' at it hot and heavy a fire resistant so when smoke starts rising from inside area. This will your boot. So you come up with some sible eye injury.

Which is why you always cover your boot tops with your pants lcgs—and never use low quarters.

The best protection a welder can get is to keep covered up as much as possible. TM 9-237 (17 Oct 58), "Welding Theory and Application," will clue you in on the safety equipment that'll give you the most protection.

For the protection of other people in the area it's a good idea to work behind a fire resistant screen or within a closed area. This will guard them from possible eye injury.

If any bystanders have to get into the act make sure they have eye protection. In addition, if you're welding outside, they should stand upwind to your torch to escape any fumes.

If the work's to be done on any type of closed container—such as oil drums, gasoline tanks or old pipe—purging is a must before lighting the torch.

# USE SAFETY EQUIPMENT

Wearing the goggles when you're using the oxy-acetylene tool kit or the welding helmet (with the right lens) with your electric arc set-up will protect your eyes and face from harmful light rays and metal burns.

Leather gloves are also a must.

The leather apron in your tool kit will protect the rest of you . . . it's also a must.



But before actually lightin' up take cylinders.

a good look at the type of metal you're

working with 'cause you might need with weldir
some extra protection. For example if by moving to
you braze, weld, or cut up brass, zinc, every time.

galvanized metal or any metal with lead-based paint, you could be about to breathe some poisonous fumes. So when you work on these, and any other metals that can give off dangerous fumes, he sure you turn on all your air fans to move the fumes outside.

And play it safe at the coffee break or chow time by leaving the work area and washing up. Eating and drinking where there're lingering fumes can give you a dose of lead poisoning. No smoking around your oxy-acetylene outfit either . . . no sense askin' for trouble! Besides, you can inhale poisonus fumes with the cirarette smoke.



Another thing—on your oxygen and acetylene cylinders... they have to be properly located and secured in an upright position with wire or rope. And remember that oil or grease coming in contact with the cylinders, valves, regulators, gages or fittings can give you a mean fire. AR 700-8120-1 (25 Sep 59), with changes, can fill you in on safe handling and use of the cylinders.

Smoke and fumes go hand in hand with welding. You'll stay in the pink by moving that inside smog outside—every time.



Now that you're back from leave, real limber from all that twistin', and rarin' to tackle your maintenance chores, how about giving some special thought to some of the new forms you recently met in TM 38-750, "The Army Equipment Record System and Procedures". For example:

DA FORM 2408-7

BALL-POINT DENOIT OR A

For the present you'll fill out DA

Form 2408-7 (Equipment Transfer
Record) to report the transfer of log
book equipment which is listed in

Appendix III, TM 38-750.

The form's for

use only when selected items are transferred to another organization, to salvage or disposal or when it's turned-in as excess or lost in combat.

That is, when such equipment is transferred between property books, stock records, or other property records.

COPY" goes to your

The "SUPPORT

field maintenance support unit.

Kemember-

when equipment
is loaned or evacuated for repair
and return to user. And, the
form's for use on major items only—
not for components removed from
major items.

The "CONTROL COPY" belongs to your designated intermediate command.

The "LOG BOOK COPY" is the log book's permanent record.

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The "NMP COPY" is for the National agency responsible for the equipment.

# FORGET OLD TRANSFERS

One more thing on the transfer record ... use of the DA Form 2408-7 is mandatory as of the date the new record system went into effect in your area ... you're not to make a 2408-7 on any equipment you transferred, swapped, lost, or gained last year, the year before that, or at any other time before TM 38-750 went to work.

# DA FORM 2408-8

DA Form 2408-8 (Equipment Acceptance Record) — This four-copy form records the status of equipment when it's accepted from the manufacturer. Usually, it'll be completed before the equipment gets to you. However, when you (the user) make out a log book for a piece of equipment, you have to fill the 2408-8 as best you can from information.

records and from its data plates.

The form's salmon-colored copy stays in the log books for keeps, and its other copies are sent out per instructions you'll have from the National agency responsible for the item.

On Engineer items DA Form 2408-8 (like with 2408-7) will be handled per AR 711-541.

Second Separation of the second

Remember, the job of a DA Form 2408-8 is to tell you how the equipment stood when it came from the manufacturer. Any MWO's the equipment gets after it's in service get recorded in the log book's DA Form 2408-5 (Modification Record)...never on the acceptance record.

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Your copy of TM 38-750 may have a couple of scrambled lines on page 27. Take a look at sub-paragraph 25 b (9). It should read:

"(9) Column a-Identify each uncorrected deficiency or shortcoming in column c by the sequence number in the technical manual. When the pertinent technical manual, technical bulletin, or manufacturer's literature does not have printed sequence numbers, enter the page, paragraph, or figure number in this column."

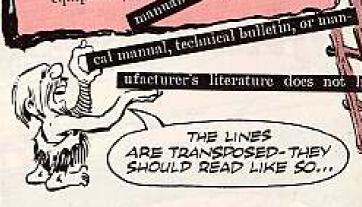
PS 115 gives you this info on filling

out the DA Form 2404, on page 20 . . . in the block in the upper left corner of the page.



Column a—1dentify each uncorrected deficiency or shortcoming in column c by the sequence number in the technical manual. When the pertinent techniufacturer's literature does not have cal manual, technical bulletin, or manprinted sequence numbers, enter the page, paragraph, or figure number in this column.

(10) Column b-For Army aircraft production the condition status symbol the other equipment, enter



# GALVANOM

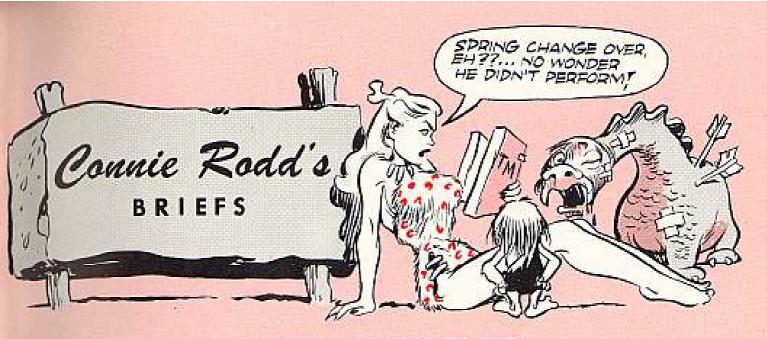


We aren't having much luck finding an FSN for the silver chloride battery that's used with the blasting galvanometer found in the Demolition Equipment Set, Blasting, Electric and Non-Electric. Can you help?

SFC J. R. V.

Dear Sergeant J. R. V.,

Sure can. What you need is Battery, BA-245/U, as called for by paragraph 59 of FM 5-25, "Explosives and Demolitions." The FSN is 6135-128-1632 and you'll find it listed in SM 11-1-6135. Half-Mast



### EQUIPMENT RECORDS PUB

Been looking for PS Issue 115 on the Army's new equipment record system? That issue is long gone, but the dope in it is now out in DA Pamphlet 38-750

(10 Oct 62). That pamphlet is stocked by the Adjutant General Publications Center, 2800 Eastern Blvd., Middle River, Baltimore 20, Md.

### TIGHT BINDER

Come 1 April, you can try again for the Equipment Log Book binder (FSN 7510-889-3494). It's been out of stock for a while, and your recent requests may've been bouncing back. But it's available now. Present stocks will be issued for free until they're exhausted.

# M151 TRUCK ARC WELDER?

You got mobile arc welders installed on some of your M38-series quartertonners? Well, for now hang on to both the welder and the vehicle. Don't trade in the M38 for a new M151. This is on

account of there is no authorized mobile arc welder for the M151 ¼-ton truck. Later the situation might change, but for now only the M38-series quartertonners can mount the welder.

#### THE HEAT-T'S ON

Yup, that's the word for you M60 tankers. A new identification plate (ammo tab) for the M13A1D ballistic computer is now up for grabs. The FSN is 1220-973-3934 and it gets you the ammo tab for HEAT-T, M456... the tab

that replaces T-384E4. This ammo tab is being issued in place of the T-384E4, so save yourself trouble—get it **first** if you're going to apply MWO 9-2350-215-20/8—get it and make the change if the MWO's already applied.

#### RECORD HELP

If you're buried deep in training on the Army's New Equipment Records System (per TM 38-750), then Army Subject Schedule 38-1 (12 Sep 62) is your meat. It'll give you a big boost in setting up your lesson plan.

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

