



# 0 0 0

(In Your Maintenance Training?)

and doing a fine job setting transferred? Does every day seem like Friday the 13th? Your peak-of-perfection missile crew losing The driver who's just now getting in shape

two key men? That "dream" mechanic getting out?

Despair and gloom!

pill bottle, try a dose of some real Preventive have whomped up specially for your unit. Maintenance medicine the technical services Hold it . . . before you hit the headache-

What is it?

Big words: Technical Assistance.

that makes the tough O, so gentle. Sounds rough, but it's that kind of service

communications it's supposed to when the ments run out, trained men get transferred . . . ing enough men trained right in operating battalion, etc.) is having a rough time keep could provide the firepower, movement and and maintaining all your equipment, Enlistword comes. you know how it is. You're not sure your unit Your unit (company, battery, battle group, Here's what it is and how it works:

to solve its problems, what's next? So, after your unit itself has done all it can

cal support officer—Signal, Ordnance, Chemhelp (thru channels, of course) to the techni-Your unit can pass along the word it needs

SEND NO MONEY:

Transportation. ical, Medical, Engineer, Quartermaster or

help he can give. Let him know your problem. Find out what

And here's what he may come through

a hand in your operation and maintenance his top-notch officers or enlisted men to lend raining. He may shoot over to your outfit some of

Let his civilian maintenance technicians or But here's what he's more likely to do:

they're real whizzes at that kind of work. maintenance representatives do the job. And

and amount of training your men need. They can come right to your unit and help your CO (or his S-3 and S-4) plan the kind

outfit and assist in the actual training themselves as long as you need them. That's not all. They'll stick right with your

They'll "tailor" the training to fit your unit's

of training. In that case, they'd set up a spethe-job" training. Or you may have a lot of needs, new men who'll need several days or weeks You may need only a few hours of "on-

operate and maintain their equipment right Then, your unit would have men trained to

cial school to do the job right.

Easy? Simple?

you need, Sure ... just let your support know what

NOTHING TO CLIP

Issue No. 101

1961 Series

# MAINTENANCE PREVENTIVE MONTHLY

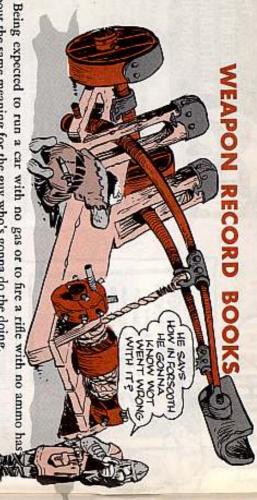
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Track Vehicle Air Cleaners New Publications Supply Manuals for Tool Sets Supply Manuals for Tool Sets Protective Mask MYAL16 Flame Thrower CO, Fre Extinguishers Boats DepARTMENTS Connie Rodd Joe's Dope Question and Answer Contributions Contributions Contributions Connie Rodd's Briefs Contributions Contributio	Micraft  Bird Dog Trainer (TL-19D) Shawnes (H-21) Plastic Bubbles & Windows Wheeled Vehicles 4.24 21/2 ton Stake & Platform Truck M62 Wrecker G749 23/2 ton Truck8 Tracked Vehicles M56 SPAT M48A2 Tank M48A2 Tank M48A2 Tank	Honest John OQ 19-series Aerial Target OQ 19-series Aerial Target MZI Gas Masks MIL Gas Masks Nike Herr XM 441E1 Body Section Truck DA Form 9-series Check Sheets Nike B & C Elevator Radome Ajax IFC Tool Sets Communications Equipment Radio Mountings TRC47 Radio Set 159/U Reels GRC-19 Radio Set	Wespon Record Book Wespon Record Book Wespon Record Book Davey RPC15 Compressor Tank-Mounted Searchlight GRC45 Radio Set: Be Your Own Inspector. Armament MAC4 40 MM Guns A5-cal Pistol	ARTICLES
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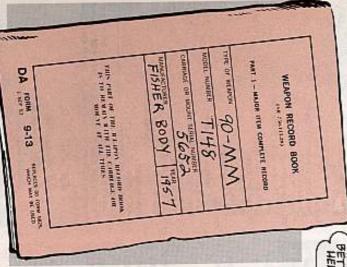
PS Magazine,

Sqt Half-Mash



about the same meaning for the guy who's gonna do the doing.

gets the piece all right, but sometimes you have a few facts on hand to give 'em the lowdown on what might have led to the shootin' iron going on the blink. when your support unit condemns one of your outfit's guns or tubes. Ordnance That's just about the deal faced by the guys who must know what went wrong





in its Weapons Record Books don't tell the gun's full history are trying to make better guns? how can you help the guys who record books back a'tall. So worse when you don't send any 9-13-1). The problem's even (DA Form 9-13 and DA Form It's a sad story when you Here's how:

or guns is condemned, make sure all the facts about it are you let 'er go. Full info should pegged into its books before tabbed unfit for duty. be in 'em when the weapon is When one of your gun tubes

> CANTERBURY WE JES NEVER KEPT OUR enough. The books should give you can spot such as, f'rintube" or "Crack (so many) stance, "Dents (or bulges) in the full scoop about the defects wrong and, if possible, why. words, put down just what's inches long at (so many) inches from breech face." In other Notes that're too brief aren't

BOX IN

DATE

THER RELOW RESULTS OF INSPECTATION, REPARS, ALTERATIONS ACCURATE, CORD.
AUCHANISM, ROSE CORE, CORE.
AUCHANISM, BRECH RING, LTE.

WEAPON DATA RECORD

 And make sure, if your support makes enter their jobs in the books before you take back the weapon so your repairs or does wark on it, that they gun's history is complete.

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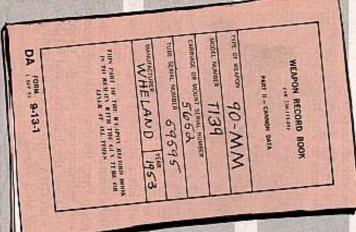
11/21/59

CHRESED AND MEET WITH ONA

3 July 189

Perof final leve bounded and after transfel of Children on But for the impation of the

by Goden Smith



2. Even when a weapon, tube or liner is unfit, busted or slated to be turned in Record Books, piece should be in those two Weapor for salvage, the full scoop about the

3. DA Form 9-13-1 is the record of the gun's tube and liner-it should go is for the record of its carriage or mount. It tags along, too. wherever the gun goes. DA Form 9-13

4. And, just as AR 750-1000-8 says, the on Record Books that get separated that's the place you send those Weap Island, III., ATTN: ORDOW-FM. And Ordnance Weapons Command, Rock books get sent through channels to from their weapons.

ω



Some of the superseded thermometer and case assemblies are still floating around in some Honest John units . . . here's the latest scoop.

If yours is listed under FSN 1055-393-0238, turn it in and tell the man behind the support unit counter you want Thermometer and Case Assembly, FSN 6685-345-6125. He's got word to exchange the assemblies on a one-for-one basis.

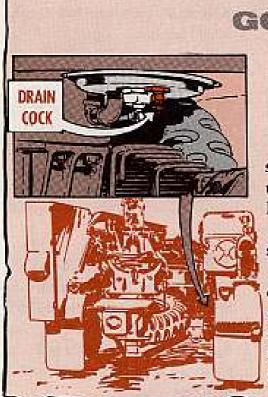
And go by the FSN-not looks. The two assemblies are so much alike . . . they could almost be taken for twins.

# NO GOT GO-NOT-GO?

All Honest John outfits with an M386 launcher need a small, but important, chunk of iron-a GO-NOT-GO gage.

As it says in TM 9-1340-202-12 (Aug 60), before you fire an M31 series rocket from the M386 launcher, you have to take the aft launching shoe plates off the rocket and replace them with aft launching shoe adapters.

And to get the right distance between the adapters, you need the GO-NOT-GO gage like the TM says. You'll find the gage in TM 9-1055-205-20P.





How about it ... have you spotted water and sediment when you opened the drain cock on the bottom of the reservoir for your M405 handling unit?

The stuff has a way of getting into the reservoir—and it sure doesn't belong there.

So make a mental note on your LO to do this once a week: Open the drain cock and drain the water and sediment until you get clean hydraulic oil. Close the drain cock and fill the reservoir with OHA until you hit the right mark on the oil level gage.





Exercise: The thing you hide from when you're the guy who's supposed to do it.

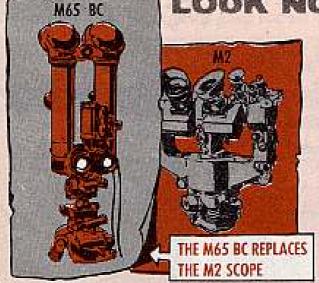
Exercise means work for you-usually. But a guy in an Honest John outfit can do his exercising by hardly lifting a finger. In this case it's his M25 generator set that gets the exercising.

There's no getting around it . . . the generators need to be run twice a week to keep all the parts lubed and the battery charged.

So give it a whirl. Start it electrically and run the generator twice a week for a 20-minute clip. And while you're at it, check the oil level in the air cleaner and crankcase . . . the oil pressure . . . and the DC output-the way it says in your TM.







There's no need to thumb through supply manuals for scoop on your M2 spotting instrument. There's no info for any echelon of maintenance.

That's because the spotting instruments are few and far between.

And so . . . unless your support unit can cannibalize parts to fix your M2, they'll be sending you an M65 BC telescope in its place.

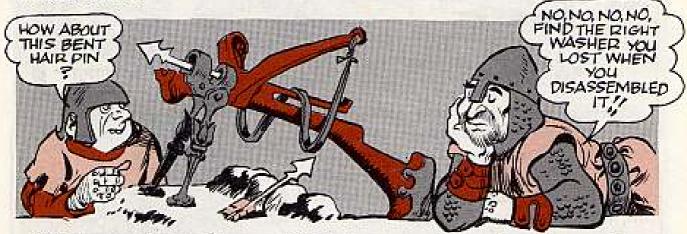
# TENDER SKIN

So maybe it is easier to sit or stand on your Honest John rocket when you cover it with the heating blankets.

But the skin surface can't take that kind of treatment. And it takes only one dent to foul up the ballistics of the rocket enough to make you think your shooting eye is off.

# SOME BAR FACTS

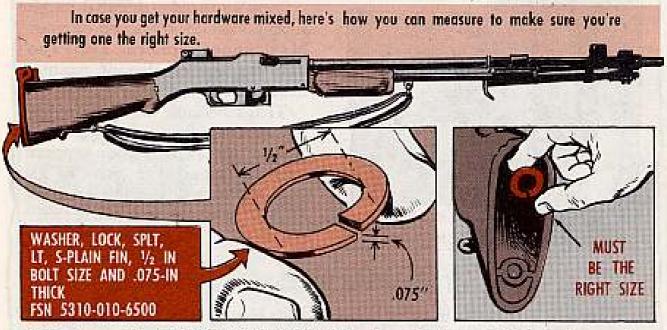
For the want of a washer . . . the BAR was put out of commission. If you have a Browning Automatic Rifle, this dope'll keep you from running into lock washer trouble.



When you disassemble your BAR and get to the point of removing the actuator spring and actuator from the actuator tube, that's when you have to be on the lookout for the lock washer.

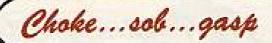
Because the next thing you do is to remove the stock and turn the stock on end Out falls the lock washer. If you aren't Eagle-eye Eric you could lose it then comes the trouble. You can't use just any common-hardware washer to take its place.

That washer has to be a certain diameter and thickness. If you put just any old lock washer that's too thick over the actuator tube you're askin' for trouble. It pounds the inside of the stock and eventually you'll find that it'll change the recoil.



You know that FSN 5310-010-6500 lock washer's a third echelon maintenance item. So if you're going to keep your BAR in operating condition keep your eye on that lock washer and don't try substituting . . . it must be "Washer, lock, splt, lt, S—plain fin, ½-in bolt size and .075-in (75 thousands) THICK."







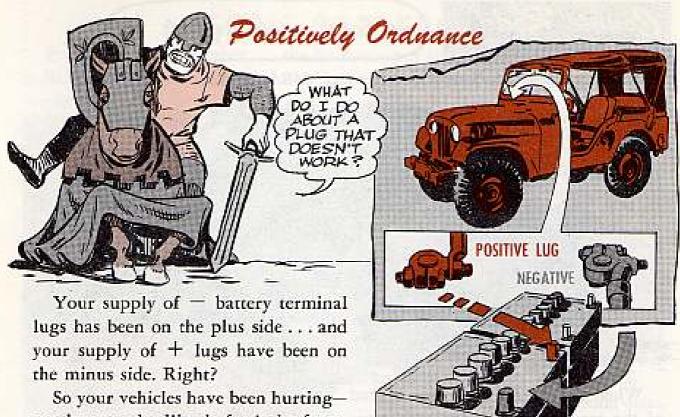
Your hose can be partly clogged even though it looks good from the outside.

Give your hose a feel now and then. If you find a soft spot, take off the hose and see if the inner layers have broken down. If they're broken down, replace the hose. Weak hoses pulsate quite a bit when you speed up and decelerate the engine. This pulsation leads to air leak-

age around or through the hose.

Check the hose to be sure no unfiltered air enters the engine. You can tell air leakage real easy by the piercing sound it makes and you can find the spot that is leaking by feeling for it.

While you are checking hoses, don't forget the hoses that connect the intake manifold sections.



So your vehicles have been hurting maybe even deadlined—for lack of positive lugs. Double right.

But the supply knot that sometimes developed with Ordnance having the negative lugs and Signal the positive ones has been untied. Ordnance began supplying both lugs again in February 1961. They have the negative lug under FSN 5940-549-6582...and the positive one under FSN 5940-502-3729.



Did you hear the one about this hot outfit that had Blue Streaked an item? It wasn't long before they were notified that the item was available for pickup.

It seems it was a Thursday and the next day was a holiday. So what does this outfit do but say it won't be able to pick up the part because the holiday was coming up and that meant a bunch of guys would be off on 72-hour passes.

That might be all right with other kinds of requisitions—but not a Blue Streak. A Blue Streak gets fast action from the start. And it wants to get the same kind of action at the finish—at your end of the supply line.



# Only so long

You guys who take care of putting the "Receipts and Expenditures of Large Rockets and Guided Missiles" reports (RCS ORD-30) on to DA form 1527-R know that the job's done monthly. But there's nothing in any AR that tells you how long to hold on to the reports. You can't go wrong if you keep 'em in your battery area as long as they're needed for local purposes. And when you go to get rid of the reports, do it the way it says in AR 380-5—seeing's how they're classified "Confidential."

# Wax on the tracks

Wax, paraffin, technical. That's all you need to call a halt to sticking zipper slides on your Nike-Hercules track radome covers. Hit the slides now and again with wax you can get from Quartermaster. FSN 9160-285-2044 gets you a one-pound cake. And it won't hurt to attach a note to your requisition telling the supply people why you need the wax. It's listed in SM 10-1-C4-1 (Federal Supply Catalog C4-1, FSC Group 91, Sept. 1959).

# New address

Take a listen...you outfits that maintain the OQ 19-series aerial target. You've been sending letters asking for technical help...for answers to supply

thread compound that you can use with

liquid oxygen-nitrogen generating and

charging equipment?

problems, etc., to Raritan Arsenal—but from now on you want to use a new address. That would be . . .

You can get it through regular Engi-

neer repair parts supply channels under

FSN 8030-778-6099.



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Any time you move a M56 SPAT (scrial number 319 or under)—even if it's only an inch—be sure to lock the traverse. Moving a SPAT with an unlocked gun can tear up the traversing

mechanism and break teeth off the top carriage gear ring. To remind you, stencil this on the inside of the windshield frame like TB 9-2350-213-10/1 (12 May 59) says:

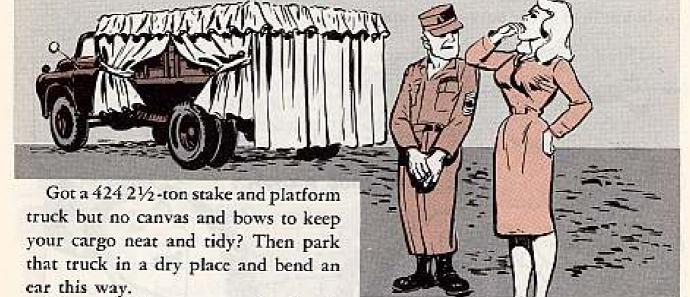
# "WARNING: ENGAGE TRAVERSE LOCK BEFORE MOVING VEHICLE."

Help is on the way from another direction. A new, beefed-up, housing FSN 2520-767-9073 (Ord Part No. 108688-

42) now stocked by your support unit, should end some of this traversing mechanism damage.

BUT STILL, LOCK THE TRAVERSE BEFORE YOU MOVE.

# M424 under cover



The manufacturer normally doesn't make canvas and bows for these vehicles. But it's likely that a supplier can be found in your area who'll make 'em up.

It'll be a local purchase deal, under provisions of SR 715-110-50 (2 Jun 54). So take it up with your Ordnance support. Give 'em a full description of the truck with all dimensions.

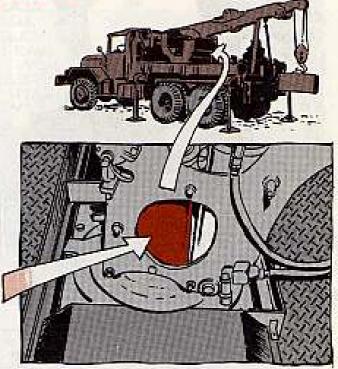


Getting loaded?

So . . . if the M62 wrecker is your vehicle remember:

The truck's not going to tip if you have all four outriggers down and set up the right way...like TM 9-8028 says.

You give the pivot post a break instead of breaking it by going along with the boom weight limits on the safe load chart.



No. DOZERSANI

The M2 Corporal crector may look like nothing can get in its way. Sure . . . it can go most places—that's for sure.

But some guys are forgetting one thing—you don't run that vehicle up or down any more'n a 15 percent slope for long runs. A coupla minutes—OK—but no dice for a steady grind. The electrical circuits aren't built to take it.

Another thing . . . the erector'll be hurting if you try to raise a missile with the erector sitting on anything more'n a 10 percent slope.

# ALAS, MASTER ARMORER... VOUR HELMENT CLEANING SIR PENCIL-SIGT AND OTHER SUCH AND OTHER SUCH INCANTATIONS. Z

moving parts will wear fast from what is known as abrasive action. ... to keep dirt and grit from being drawn into the engine. If not, your engine's vehicles. You've got to keep your main engine's air cleaners in the best condition If you don't breathe, you don't live-right? Same way almost with your track

snafu'd by oil being sucked into the fuel system. If the cleaner's oil level is too high the fuel-air mixture is going to get all

down on the flow of air to your engine's fuel system. cles of dirt as the air passes over the oil. Also, a dirty screen mesh wire will cut If the oil level is too low, the cleaners won't filter out the engine-killing parti-

what to do: So's to keep your air cleaners working for you instead of against you, here's



Most track vehicles have two air cleaners the oil pan.) Lift the oil pan, twist it to wing nuts that hold the metal bar under side. (On some air cleaners, unscrew the from them by unsnapping the latch on the for the main engine—remove the oil pan the right, lower it and take it out.

Remove and wash the 8010-242-2086 (5 its paint thinner, FSN (5-gal) or mineral spir-FSN 6850-264-9038 dry cleaning solvent, filter screens with



# CLEANERS

3. Dip your fingers into the pan and feel for sludge on the botdrain off the top dean oil and sludge as much as 1/e-in deep deaner. If there's a layer of tom. If there is no sludge put wash out the dirt. the pans back on the air

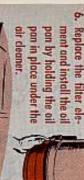


LAYER OF SLUDGE CHECK FOR

4. Wash the pans with or a mineral spirit paint thinner. ing compound solvent solvent. Use dry clean-

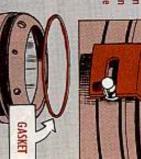
5. Refill each pan until the oil's even with the OIL LEVEL line. It's OK to use used oil. Use OE 30 oil when the temperature range is above + 32 degrees...OE 10 dips from 0 to -65°. when the temperature settles between +40° and -10°...and OES when it

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the top edge of the pan into their slots in the oir cleaner ... Then, slide the clips on



on the side of the air cleaner. of the latch. Snap the latch in place Slip the safety ring over the handle

... and twist the pan to the left until it locks

gaskets

before installing are in place

the oil pan.

air deaner Make sure the

# AIRING THE AUXILIARY

get to the auxiliary engine's air cleaner cleaned. So, if it's necessary ask the gunmay be small, but it still needs to be ner to traverse the turret so that you can If you have a Li'l Joe, its air cleaner

1. Unsnop the on the side two latches of the air

deaner.



2. Unhook the wire hooks OF CUP TOGETHER TO REMOVE pan and remove the oil pan. from the lip of the oi

3. Reach up under the cleaner, squeeze the dip and pull out the filter screens

4. Use your fingers to feel for dirt and grit on the bottom of the oil pan. If there's as much as Ve-in of dirt or grit do not install the oil pan on the air cleaner again until you clean

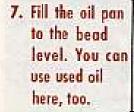




5. Check the filter screen.
If it's clean, put it
back. If it's dirty, clean
it with solvent.

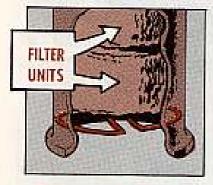


 Glean the oil pan with solvent. If there's no solvent around, use rags.

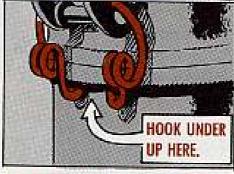








8. Squeeze the clip, push the filter up in place and release the clip.



9. Holding the oil pan in place under the air cleaner, hook the wire hooks under the lip of the pan.



 Snap the latches on to the side of the air cleaner.

# HELPFUL HINTS

Put the same weight oil in your air cleaner as the oil in your engine. In fact, it can be the same oil you drained from the engine when you changed. See your vehicle's LO for the right OE to use.

Regardless of time or mileage . . . you want to change oil when the dirt is as much as 1/s-in deep in your Li'l Joe air cleaner and in your main engine air cleaner. Even if it means doing it more than once a day. Pay special heed to the info in your LO Note 1 about "Desert or Extremely Dusty Operation."

Make darn sure that the filters are seated on their gaskets when they're put back.
This as absolutely the latest official dope and you can rely on it.

# DON'T SNUB YOUR SNUBBERS



That's quite a hunk of iron you got wrapped around you when you're riding in your M48A2 medium tank. Being as heavy as it is there's one thing that rules whether you're going to have a smooth ride or a hard one . . . it's your tank's snubbers.

The snubbers take up the shock that hits your vehicle. So's to stop your stomach from becoming as shook up as a malted milk and to keep hard jolts from snapping torsion bars and other parts of the suspension—here's what you might do to check the snubbers on each side of your M48A2 tank:

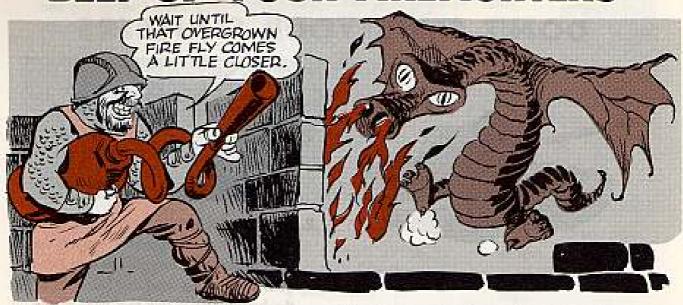
 Check snubbers immediately after a test run of at least 5 miles of high speed operation or 4 miles cross-country.
 Touch a finger lightly to each snubber at the center of the tube to see if it's hotter'n the hull near the snubber. If the snubbers are working right they will be much hotter than the hull.

Caution: To avoid a bad burn, touch the snubbers lightly. They get hot enough to fry eggs, let alone your fingers. Let 'em cool at least 30 minutes before taking a firm hold.

- 2. The front snubbers have four bolts on the top bracket and four on the bottom, the other two snubbers on each side have three bolts on the top bracket and four bolts on the bottom. Make sure that none of the bracket bolts are loose or missing. If a bracket bolt is missing get yourself a new one and bolt it in tight... real tight, about 250 ft-lbs torque.
- 3. Check for cracked mud or shiny metal where the bolt touches the bracket. If the bolt is loose, tighten it with a 1%-in socket and 3%-in drive T-handle.
- Kick or shake each snubber. If the snubber rattles, report it.
- 5. Be sure that there's a cotter pin in the top and bottom mounting pins of each snubber. If a cotter pin is missing or broken, get yourself another one. Then, push it through the mounting pin and spread the ends.



It's best to make these checks after operating cross-country or at every Q services. BEEF UP YOUR FIREFIGHTERS



Gets hotter'n the hinges sometimes on the desert or back in the boondocks. But it can get even hotter there . . . or in a snowbank . . . when your combat vehicle engine catches fire.

Sure . . . you've got fire-fighting gear to put out any blaze that starts. But have

you checked it lately to see if it's fit to fight?

On maneuvers a while back one M48 tank crew got a bit redfaced a coupla ways when they pulled those extinguisher handles and there wasn't even a fizz. Wound up waving down a passing truck to get help. And that tank engine was so well-done it had to go for a complete overhaul.



Seems their fire-fighting gear had lost a lot of CO2... and a lot of weight that hadn't been missed until that fire started.

Here's what you do to keep yourself and your combat vehicles from getting burned . . . one way or t'other:

# Every day-

- Check your fixed fire extinguishers for broken seals. If you find one broken . . . on the remote
  control handle or on the inside control . . . deadline the vehicle until the extinguisher is weighed to
  see if the charge is too low.
- 2. Take a special squint at the inspection tag, DA Form 253, inside its waterproof holder, and the cylinder recharging data card.
- 3. Make sure you've got a spare safety disk and washer (in a waterproof envelope on the cylinder).

  They're not for you to replace, but your support may need 'em in a hurry.

4. Then lay an eye on the mounting brackets and extinguisher controls to see if they're loose. And on the discharge nozzle to see if they're blocked up.



Every quarter—give those fire bottles a daily check . . . plus these extra services . . . if your support or local SOP OK's it:

 Disconnect the control head and pressure lines from the valves on top of the cylinders. Then disconnect the discharge lines.



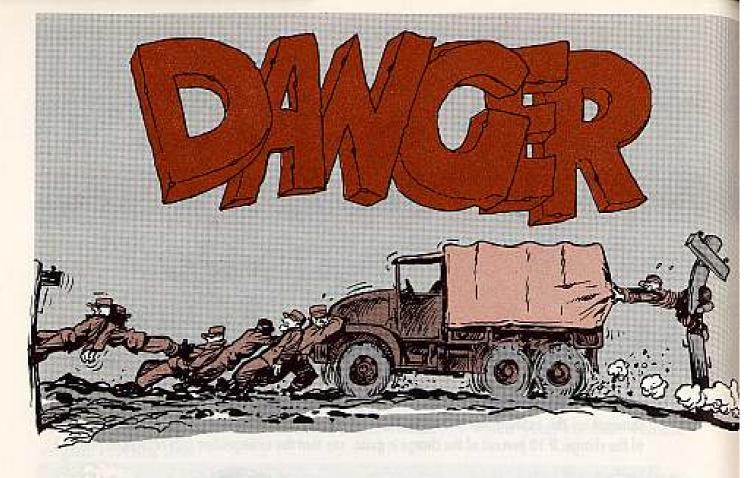
2. Take the extinguisher down from its mounting.

3. Using a common spring scale . . . like FSN 6670-164-0564 (QM) . . . weigh each cylinder separately, and mark the weight and date on DA Form 253. (Weight EMPTY and weight FULL are stamped on the extinguisher valve. Subtract weight EMPTY from weight FULL to get the weight of the charge. If 10 percent of the charge is gone, see that the extinguisher gets recharged pronto.)



- If the safety disk's damaged, ask your support to replace it and the washer. The disk gets replaced only after the extinguisher's completely discharged.
- With the remote control gear removed from all the vehicle's extinguishers, pull the outside discharge handle. If it drags or binds, unfreeze it before you re-install the extinguishers.
- 6. Rewind the cable in the control head, see that the arrows line up, and replace the head.
- 7. Make sure the extinguishers are re-sealed. Use a type made of thin copper wire with lead seal that'll break easy when you give it a quick pull in an emergency.
- 8. Give the portable extinguisher in the crew compartment a check-out, too. Fixed extinguishers only take care of fire in the engine compartment.

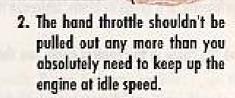
That way, you're ready if ol' smokey starts to blaze.



The automatic transmission of 2½-ton G749 trucks can slip into gear all by itself under certain conditions, just like TB 9-8024-1 (19 Jan 56) says.

To avoid smashing yourself or somebody else when you have to keep the engine running with the truck at a standstill:

 Always put the transfer and transmission in neutral and set the hand brake until you're ready to roll. If you have to let it idle, be sure to throw on the neutral safety lock that MWO ORD G749-W34 put on your truck shift tower 'way back, Don't leave the cab until you turn off the engine. If you need to check the transmission oil level, take the necessary precautions and check the oil like it says in LO 9-2320-210-10 (19 Jan 59).



LOCK

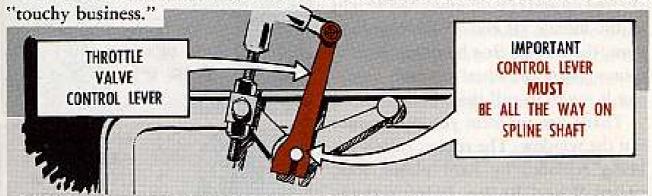
3. Don't let anybody crawl under the vehicle or walk in front of it while the engine is running.



Your life, or anybody's, could "hang in the balance" unless the Hydra-Matic transmission linkages are adjusted, positioned or inspected . . . just so.

A check and look-see at that TB 9-8024-1 is a must for every driver and mechanic on these trucks. Besides telling you to always set your parking brake before the engine is started the TB also says only authorized mechanics'll make with the adjusting and positioning of these links.

The reason a mechanic should be real familiar on this score is because it's really



F'rinstance, say the throttle valve control lever didn't get put into the control valve spline shaft far enough, it'll allow the shift lever to wander off the spline and you'll lose control of the shift range. You'll put your shift lever into neutral, but that's not what you'll get on the shift pattern in the transmission. Guess you see the picture now??? You just might be in a forward gear . . . right?

Follow the TM 9-8024 to a tee when adjusting the linkages—no short cuts. When the throttle valve control lever is put on, make sure it's shoved on until the end of the shaft is flush with the outside surface of the lever, and then tighten up the lever bolt real tight.

Check the pins, levers, yokes, etc., for signs of wear and get new parts pronto if needed. If the splined ends are bad, get support to help out—even if this means deadlining the vehicle.

Making sure the serrations in the levers and the shafts match up and not forcing them into place, is a must.

THEN TIGHTEN
UP LEVER BOLT

All this Dope applies to 2½-ton cargo trucks M135 and M211, dump truck M215, gasoline tank truck M217, shop van truck M220, truck tractor M221, and water tank truck M222.



How about it . . . are those forward rubber-wheel rollers on your Nike-Hercules XM 441E1 body section truck giving you a hard time?

You know . . . the rubber tread gets chewed up and rips off under the weight of the missile aft end. When this happens, the aft roll ring binds against the center part of the wheel assembly—making it tough to roll the missile.

That's one problem you can bounce out the window. The rubber rollers are being replaced by hard plastic jobs, called, Wheel, Roller, Polycurethane thread, FSN 2530-773-6839. See your support unit about putting on the new rollers. It's their job.



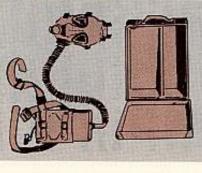


# M21 GAS MASK

Missile-men, and anybody else handling liquid rocket propellants, take a look at TM 3-4240-218-15 (6 July 60), for the story on the M21, the new rocket propellant gas mask.

The new mask's convenient for you when you're operating in an area where there's only a low concentration of fuel vapors.

It doesn't replace your old M15 compressed air breathing apparatus, which you depend on when the air's really foul...but, the M21 will hold up through five-minutes of heavy vapors...so's you can scoot away from big spills or leaks.



# DOUBLE CHECK

CHECKET SECULLA CONTROL OF THE BOOK OF THE STATE STATE

There's nothing to it.

You fill out the DA Form 9-series check sheets on the assembly and maintenance of your Nike-Hercules missile.

Then you sign the "verified by" block ... or have the first guy who passes by do the signing.

There's nothing to it. But that's the wrong way.

When you make the checks, you want another man breathing down your neck. He wants to know what the checks're all about. And, if he's on the ball, he won't do any verifying unless he sees you make every check.

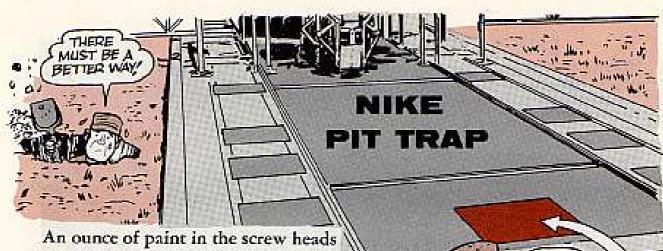
# A SHORT NIKE COMPUTER STORY ...



You know what they say ... never put off 'til today what you should do yesterday.

And that sure goes for your Nike computer over-load checks.

Yet...some guys'll say to themselves, "I'll leave well enough alone." That's bad when things are going along normal-like. But it's real bad when the computer's not predicting right because of a bum part—like a tube—that you could spot in your checks.



An ounce of paint in the screw heads of a Nike B or C elevator access panel could cost you a pound of sweat—because this panel is your only "out" if the elevator conks while you're working under the lowered platform.

Here's the easiest way to whip that safety problem:

Simply replace the original flathead screws with a fresh set of hex-head capscrews. Just ask Ordnance for the needed number of Screw, Cap, hex-head FSN 5305-057-1028.

Even if the hex-heads get paint-coated, it's no sweat to turn 'em out and remove the plate.

# DON'T USE THE MAIL



Whoa . . . stop . . . come to a screeching halt.

You special weapons outfits that wind up with more classified publications than you need . . . don't send 'em back to the AG publications center in St. Louis.

This is bad business 'cause they're classified. And the cost of handling a coupla publications is a lot of times higher'n the pubs themselves—classified material, or no.

If you have less than 10 copies of one publication, get rid of 'em according to the word in AR 380-5. And, if you have 10 or more, let the AG publications center people know. They're at 1655 Woodson Road, St. Louis 14, Missouri. They'll send word on what to do.

And . . . any time an outfit's going to lose its special weapons mission, it wants to get word to the publication center by using section III of DA Form 12-6. That'll stop the flow of special weapons pubs.

A selected list of recent publications of interest to Organizational Maintenance Personnel.

# TECHNICAL MANUALS

TM 1-1H-19C-1 Od.

TM 1-11-19AITID-4-20P Dec

TM 11-20A-4-20P Dec.

TM 1-11-230-4-20P Dec.

TM 3-1040-205-12 Nov Service Unit; Florie Thrower, Truck-Mounted, M4.

TM 3-1040-214-12 Nov Imitant Gas Dispersor, M3:

TM 5-3695-202-15 Nov Sow; Chain Elec 24 In. 1-M., Strunk Med G2F

TM 5-3805-211-10 Nev Grader, Road, Diesel, Lelourneau-Westinghouse Mod 220. TM 5-3820-206-15 Nov Breaker, Poving Pneumatic Mod R-1424.

TM 5-3895-232-25P Nov Kellle, Heating, Bituminous; Mod 750-US.

TM 5-4120-214-25P Dec Air Cond, Med on Mod M109 Van; AC, 208V, 3Ph, 60Cy. TM 9-1055-212-12 Nov 318-MM Rocket Launcher XM-34, Trailer MX-449, and Handling Unit.

TM 9-1055-212-20P Nov 318-mm Rocket Louncher XM-34, Transport Carl XM-449, and Handling Unit.

TM 9-1300-205 Sep Ammenition For Morton.

TM 9-1340-204-20P Oct Ammunision, Rocket, 318-mm, XM-51.

TM 9-2320-204-20P Nov Recovery Vehicle MSI.

TM 9-2320-222-10 Nov Recovery Vehicle M88.

TM 9-2330-238-14 Oct Chessis, Senttrailer & Ton, M-29SA1 and Vans M-447. TM 9-2330-245-24P Dec Chassis Trailer 1/4-Ton, M103A1 and M103A3.

TM 11-1550-200-20P Nov Drone, Surveillance OA-2343/USD-1.

TM 11-5410-205-12P Dec Shelter Elec-

trical Equipment. TM 11-5507, C1, Dec Rolary Converters

PU-134/U, 140, 141, 143 TM 11-5805-242-25P Dec Telephone

Set TA-236/FT.

TM 11-5805-254-15 Nov Telegroph-Telephone AN/TCC-14.

TM 11-5805-275-20P Nov Repealer, Telephone AN/TCC-5 and AN/TCC-22. TM 11-5805-311-12P Nov Amplifier,

Audio Frequency AM-901/G, TM 11-5805-315-12P Nov Chair Relay

TM 11-5805-315-12P Nov Chair Relay Rock, Telephone R5-164/G.

TM 11-5810-216-12P Dec Controller Test Set TSEC/ST-1/ST-1.

TM 11-5815-205-25P Nov Central Office, Teletypewiter AN/MGC-17:

TM 11-5815-238-20P Nov Teletypewriter Sets AN/GGC-3 and AN/GGC-3A. Reperforator-Transmitters Teletype-writer TT-76/GGC, TT-76A/GGC. TM 11-5815-275-20P Nov Focsimile

TM 11-5815-275-20P Nov Forsimile Equipments RC-120, RC-120A & RC-120B TM 11-5820-219-12P Nov Restorers, Palse Form TD-68/F and TD-68A/G.

TM 11-5820-334-10 Nov R:372/URE, TM 11-5820-343-20P Nov Power Supplies PP-1126/U, PP-1127/U & PP-1128/U, TM 11-5820-393-20P Nov Receiver-Radio R:853/URE;

TM 11-5820-395-12P Nov Radio Transmitting Set AN/URT-7C and AN/URT-7D.
TM 11-5820-396-20P Nov Power Supplies PP 327/GRC-9Y, PP 327A/GRC-9Y and PP 3278/GRC-9Y.

TM 11-5826-209-15 Nov Antenno Support A8-461/GL TM 11-5835-207-20P Nov Recorder-Reproducer RD-318/U

TM 11-5835-215-20P Dec Recorder— Sepreducer Sound 8D-31C/U and RD-31D/U.

TM 11-5840-217-20F Nov Rodor Set AN/TPS-25.

TM 11-5895-223-25P Nov Communicotions Operations Control AN/MSC-31,

TM 11-5895-244-20 Oct Test Set Efectranic Circuit Plug-in Unit TS-1209/MSQ. TM 11-5895-246-20F Nov Sucveillance System, Airborne Drane AN/USD-1. TM 11-5895-284-20P Nov Rador, Sur-

TM 11-5895-284-20P Nov Rod: veillonce Set AN/AFS-96,

TM 11-6115-219-15P Nov Generator Set, Cospline Engine, Trailer Mounted #U-248/U.

TM 11-6115-223-15P Nov Cenerator Sél, Gasaline Esgine, Trailer Mounted #U-294/G.

TM 11-615-7225-15P Nov Generator Sel, Gasoline Engine, Trailer Mounted PU-332/G. 2

TM 11-6115-226-13P Nov Generator Set, Gosoline Engine, Trailer Mounted PU-269A/G and PU-269B/G.

1M 11-6130-209-13P Nov Power Sepply, PP.1479/G.

TM 11-6130-210-10 Oct Battery Charger 19-775/U.

TM 11-6130-222-15P Dec Botlery Charder Gen Set, P?-1067/G.

TM 11-6140-202-15 Nov Ballery, Sloroge 88-472/U

TM 11-6615-202-20P No. Automatic Filot AN/ASN/23.

TM 11-6615-205-20 P Det Compass-Controlled Directional GYRO System Type MA-1.

TM 11-6625-214-24 Oct Signal Generator AN/URA-52 and AN/URA-52A.

TM 11-6625-315-20P Nov Test Set Group Roder OA-2228/TPS-25;

TM 11-6625-346-20P Nov Distortion None Level Test Set 15-705/U & TS-705A/U.

TM 11-6625-355-20F Dec Audio Oscillator TS-421/U B TS-421A/U.

TM 11-6625-359-20P Dec Spectrum Analyzer Set AN/UPA-84

TM 11-0625-361-12P Dec Teal Facilities | Kil MK-387/MPM-49;

TM 11-6625-369-12P Nov Indicator, Shording York Ratio AN/USM-37A.

TM 11-6625-396-12F Dec Shaborcope TS-5058/U

TM 11-6625-398-24 Sep Test Set Redor ANJ APM-66.

TM 11-6730-704-10 Oct Projector Set AN/PIP-1

TM \$1-8740-206-20P Nov Drier, Photographic Print PH-679/U.

TM 11-6740-231-25P Nov Printer, Conlect, Photographic EN-12(1)

TM 11-6760-207-20 Nov Mount Aircraft Camera LA-140A.

TM 11-6940-203-12 De: AN/URATI. AN/URATIA .... AN/URATIB

# LUBRICATION ORDERS

LO 3-1040-205-12 Nov Service Unit, Flame Thrower, Trock-Mrd, M4.

LO 5-3805-211-20-1 Nov Grader, Road: Diesel Mold Letoureeou-Westinghouse Med 220.

LO 5-3805-211-20-2 Nov Grader, Road: Diesel Letourneos Westinghouse Mod 220

LO 5-3805-212-20-1 Dec Intrench Mach, Combot: Unit bg Mod 4262. LO 5-3805-212-20-2 Dec Intrench Mach, Combat: Unit Rig Mod 4262.

LO 5-3#05-212-20-3 Dec Intrench Mach, Combat: High Speed; Unit Rig Mod 4262.

LO 5-3805-213-20-1 Nov Loader, Bell Type: Gat Driven, Adams Drive, Letour-neou-Westinghouse Mod 30, Traveloader, LO 3805-213-20-2 Nov Loader, Bell Type: Gas, Letourneau-Westinghouse Mod 30, Traveloader.

LO 5-3805-213-20-3 Nov Loader, Roll Type: Letourneou-Westinghouse Mod 30, Traveloader,

LO 3-3803-219-13-1 Dec Looder, Scoop Type: Diesel 21/, Cv Yd Hough Mod H-90M. LO 3-3803-219-13-2 Dec Looder, Scoop Type: Diesel 21/, Cv Yd Hough Mod H-90M. LO 3-3803-225-12-1 Dec Looder, Scoop Type: Gos 3/, Cu Yd Clark Mod SSA-M. LO 3-3803-225-12-2 Dec Looder, Scoop Type: Gos, 3/, Cu Yd Clark Mod SSA-M. LO 3-3803-236-12-1 Dec Spreader, LO 5-3895-236-12-1 Dec Spreader, Conc. Concrete Machinery LTD Mod S-200-250.

LO 5-6115-291-15 Nov Generator Set, Dissel 60 KW, Lunes Inc. Mod 2207.

LO 5-9494-1 May Crane, Crawler Mid, Diesel, 65 T, Manitowac Mod 3700.

LO 9-2320-222-10 Nov Recovery Vehicle, M-88.

LO 5-9494-2 May Crone, Crowler Mid, Diesel, 65 Ton, Manilowoc Mad 3900. LO 10-3930-405-20OctTractor, Wheeled, Warehouse, Army Mad MHE-168.

# FORMS

DA Form 9-90 Nov Herc Weekly Check Sheet

DA Form 9-91 Nov Herc Monthly Check Sheet

DA Form 9-94 Nov Herc Monthly Check Sheet

DA Form 9-100 Oct Doily Check Sheet -(Ajox) Pad.

DA Form 9-101 Oct Ajax Weekly Check Sheet

DA Form 9-112 Nov Herc Monthly Check Sheet

DA Form 9-113 Nov Herc Monthly Check Sheet

DA Form 9-187 Nov Spot Check Sheet, 55-10/11.

Do Ferm 9-188 Nov Spot Check \$\$-10/11 Simulator \$-55.

# MISCELLANEOUS

AR 735-35, C1, Dec. DA Pom 310-4 Nov.

FM 6-40 Nov Field Artillery Connon Cunnery.

MWO 5-3810-202-35/1 (Corrected Copy) Nov Corrier, Crone Shavel, 20 Ton GED Mod MUC.

MWO 5-6115-227-35/1 Dec Generotor Set, Diesel 60 KW, AC, Szekely Mod 501.

MWO ORD Y61-W16 Dec Erector M2: Installing Towed Yehicle Electrical Brake Refease Cable (Carporal II).

SB 11-511 Dec Replenishment Auth. BA-472/U.

SIG 7 & 8-MX-2442/FSG-1 Nov. SIG 7 & 8-OA-1409/FSG-1 Nov.

SIG 7 & 8-DA-1865/PSQ-1 Nov. TB 9-1430-253-20/6 Dec Tracking State Changing Stamping on Plug, Here:

TB 9-2320-211-20/2 Jul Chassis, Truck: 5-Ton, 646, M-39, M-40, M-40C, M-61, M-63, M-63C, M-139, M-139C, M-129D: Truck Cargo: 5-Ton, 646, M-41, M-54, M-15.



Maybe you too have been running into trouble trying to find the latest Supply Manual number for your tool sets. Here's something that should help.

NEW	FSN	TOOL SET
SM 9-4-5180-A01	5180-754-0654	No. 1 Common (2d echelon)
SM 9-4-5180-A17	5180-754-0653	No. 1 Supplemental (2d echelon)
SM 9-4-5180-A20	5180-754-0650	No. 2 Common (2d echelon)
SM 9-4-4940-A08	4940-754-0743	No. 2 Supplemental (2d echelon)
SM 9-4-5180-A03	5180-357-7778	(2d echelon), Set No. 5, oxy-acetylene
SM 9-4-4910-A01	4910-252-0636	Heavy duty fire remover (obsolete)
	4910-754-0651	Set No. 9, Ground anchor (obsolete)
	4910-754-0652	(2d schelon), Set No. 7, Hoist & Towing
	3470-343-8864	Radio controlled aerial target
SM 9-4-5180-A04	5180-034-8470	762-mm rocket, org maint & assembly
SM 9-4-5180-A05*	5180-323-4947	Set A, Army aircraft, org maint
	5180-323-4948	Set A, Supplemental
TOTAL OF THE PARTY	5180-323-4979	Set B
No. Company of the Company	5180-323-5037	Set C
		Guided missile maint: Nike Ajax & Hercules
	5180-545-8641	GM launcher-loading rack Nike Ajax & Hercules C
	4940-047-3750	Demolition equip. set, elec. & nonelectric
	4940-047-3751	Demolition equip. set, nonelectric
SM 9-4-5180-A09	5180-600-2597	318-mm rocket, org maint & assembly
1643 1/11/15/20	110 R300	(Cancelled)
		Medical Equip maint & repair: org maint
SM 9-4-5180-A11	5180-631-9417	Missile shipping container: For aft section of
Committee of the Commit		missile body, M351, Corporal
		Spl weapons: support, U. S. Army Engineers
		Spl weapons: org maint (Nike-Hercules)
SM 9-4-5180-A14	5180-607-3738	Missile ground handling equip: org maint,
W/Downson		Corporal II, guided missile system
		768.20 Armorer's
		421.10 Small arms repairman
		General mechanic's
		442.10, 443.10, 424.10/Artillery repairman
		442.10 Welder's Tool Kit
SM 9-4-3431-A06*	3431-754-0661	442.10 Welder's Tool Kit *Not yet publish
	SM 9-4-5180-A17 SM 9-4-5180-A20 SM 9-4-4940-A08 SM 9-4-5180-A03 SM 9-4-4910-A01 SM 9-4-3470-A01 SM 9-4-5180-A05* SM 9-4-5180-A05*	SM 9-4-5180-A01 5180-754-0654 SM 9-4-5180-A17 5180-754-0653 SM 9-4-5180-A20 5180-754-0650 SM 9-4-4940-A08 4940-754-0743 SM 9-4-5180-A03 5180-357-7778 SM 9-4-4910-A01 4910-252-0636

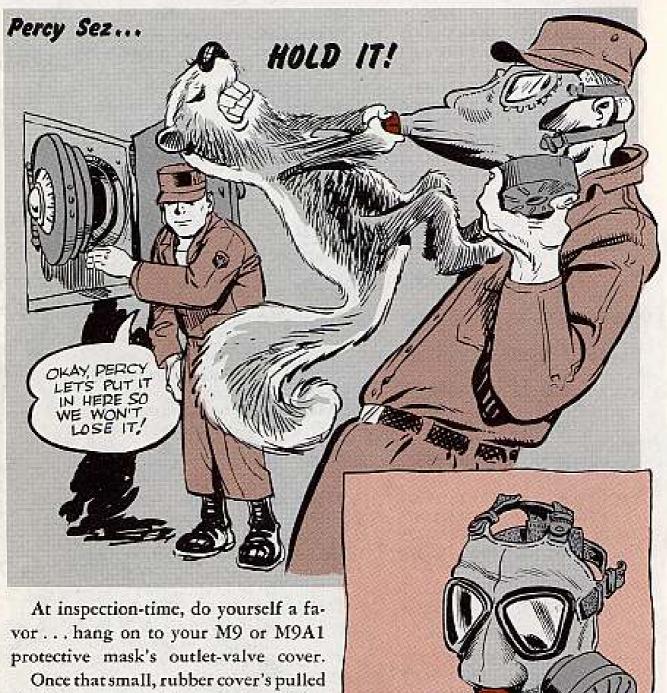






OLD	NEW	FSN	TOOL SET
SM 9-4-5180-J10-7	SM 9-4-5180-A60	5180-754-0643	441.10 Body and fender repair
M 9-4-4910-J10-8	SM 9-4-4910-A57	4910-754-0655	634.10 Fuel & electrical system repair
	SM 9-4-4910-A60	4910-754-0712	Tire rebuilder & inspector
	SM 9-4-4910-A61	4910-754-0713	Vulcanizer's (Obsolete)
SM 9-4-5180-J10-13	SM 9-4-5180-A61	5180-357-7735	301.2 Fire control repairman
SM 9-4-5180-J10-14	SM 9-4-5180-A62	5180-357-7743	403,20 Instrument repairman
M 9-4-5180-J10-15	SM 9-4-5180-A63	5180-754-0731	462.20 Canvas & leather: 462.10 Repairman
	SM 9-4-5180-B17	5180-322-6053	234.1 Fire control, 233.2 Repairman
1	SM 9-4-5180-B18	5180-322-6055	1361 Guided Missile: Corporal
SM 9-4-5180-J10-25	SM 9-4-5180-A64	5180-034-8472	147.2 Rocket self-propelled 👸
	SM 9-4-5180-B19	5180-092-9077	412.10 Gun: (762-mm)
M 9-4-5180-J10-28	SM 9-4-5180-A65	5180-571-1950	433.10 Guided missile: repairman (Nike)
MA 7-4-3100-310-20	3M1 7-4-316U-A63	3100-311-1730	Machinist's
M 9-4-5180-J10-29	SM 9-4-5180-A66	5180-699-3594	141.10 Field artillery mechanic's
			105-mm & 155-mm How.
M 9-4-5180-J10-30	SM 9-4-5180-A67	5180-699-3595	141.10 Field artillery mechanic's
THE PARTY OF THE PARTY		STATE OF THE PARTY	155-mm guns and 8-in How.
M 9-4-5180-J10-31	SM 9-4-5180-A68	5180-699-3601	141.10 Field artillery mechanic's
			8-in guns & 240-mm howitzers
SM 9-4-5180-J10-32	SM 9-4-5180-A69	5180-323-4915	685.10 Electrical repairman's: Army aircraft
SM 9-4-5180-J10-33	SM 9-4-5180-A70	5180-323-4692	671.20 Aircraft mechanic's: 672.20 Gen
SM 9-4-5180-J10-34	SM 9-4-5180-A71	5180-323-4913	688.10 Instrument repairman's:
M 9-4-5180-J10-35	SM 9-4-5180-672	5180-323-4909	Army aircraft 684.10 Propeller & rotor repairman's:
	SIII 2 T S TOU AV E	3100-323-4707	Army aircraft
M 9-4-5180-J10-36	SM 9-4-5180-A73	5180-323-4891	687.10 Hydraulic repairman's: Army aircraft
M 9-4-5180-J10-37	SM 9-4-5180-A74	5180-323-4876	686.10 Air frame repairman's: Army aircraft
M 9-4-5180-J10-38	SM 9-4-5180-A75	5180-323-5114	679.4 Aircraft inspection: 679.5 Technical
M 9-4-5180-J10-39	SM 9-4-5180-A76	5180-323-4944	781.1 Engine & power train repairman's:
			676.10 Army direraft
M 9-4-5180-J10-40	SM 9-4-5180-A77	5180-695-0139	424.10 Turret mechanic's
M 9-4-5180-J10-41	SM 9-4-5180-A78	5180-532-9112	253.10, 254.10, 232.10, 241.10,
	92.0/100.500		242.10, 243.10, 244.10, 251.10,
190	THE PARTY		252.10, 247, 248 Electronic repairman's
M 9-4-5180-J10-43	SM 9-4-5180-A79	5180-611-7923	208 Medical equipment, maintenance & repair
M 9-4-5180-J10-42	SM 9-4-5180-B20	5180-695-0138	192.2 Anti-aircraft artillery: 191.2 Mechanic
M 9-4-5180-J10-44	SM 9-4-5180-B21	5180-545-8642	172 Mechanical assembler, guided missile
M 9-4-5180-J10-45	SM 9-4-5180-B22	5180-545-8643	223.10 Electronic assembler, guided missile
M 9-4-5180-J10-46	SM 9-4-5280-A01	5280-278-9919	Measuring tool set, Machinist's, No. 6
M 9-4-5180-J10-50	SM 9-4-5180-A81	5180-313-3045	355.1 Electrician's: No. 1
M 9-4-5180-J10-51	SM 9-4-5180-A82	5180-545-8645	355.1 Electrician's: No. 2
M 9-4-5180-J10-52 M 9-4-5180-J10-53	SM 9-4-5180-AB3	5180-625-7906	RCAT, Auto pilot control system mechanic
MI 7-4-310U-J1U-33	SM 9-4-5180-A84	5180-625-7907	RCAT, Airframe mechanic
		Will Hall Street	120
1		TOOL	WAR AR
	1	OF THE STITE	

Now, get out a DA Form 17 and order the Tool Set SM you need from your publications section.



Once that small, rubber cover's pulled off, it has a way of wandering off for keeps.

Best way to guard it is to grab it when it's pulled off, and then replace it soon's the valve's been inspected.

Course, you don't have to hold it in your teeth—but you should keep an eye on it, or find a definite spot for it... like slipping it into your mask's carrier... and, always remember to replace it before you pack your mask away.

As you well know, if that cover's lost

you're likely to be left holding the bag with an incomplete, unprotected, protective mask . . . and, that might not be too good. That cover's put there to protect the outlet valve disk.

DON'T LOSE

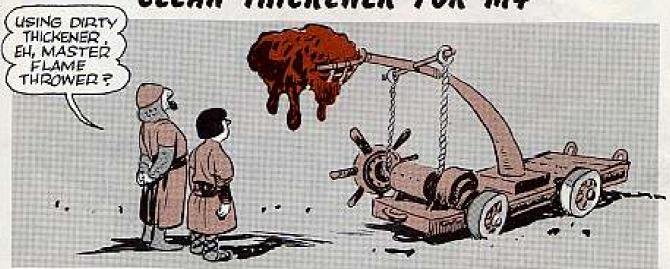
THIS OUTLET

VALVE

COVER

CHECK IT GOOD, DUMP WITH CARE...

# CLEAN THICKENER FOR M4



You're likely to be out of business fast if you use dirty thickener in your M4 service unit. So play it safe. Be extra fussy about the cleanliness of the M1 thick-

ener you pour down the mixing tank.

When you open a container of M1, for example, get rid of the tear strip key immediately. Toss it away, stomp it into the ground, if you have to, just don't let it hang around—it can easily end up in the thickener.

And while you're stirring the dry stuff around to break up lumps, check it carefully for any odd pieces of junk,





like loose, stuff that can fall out of anyone's pockets. Small pieces of metal or wood, nuts, nails and similar junk can get past the 1/4-in mesh screen at the bottom of the vat and foul up the pump but good.

Also make sure that the transfer buckets you use are clean.

Something else that'll help safeguard the service unit from damage of contaminated thickener is to keep the vat screen installed at all times during operation.

And when you use oil that's been used before, by all means see that it's strained through a fine mesh strainer before you use it.

27



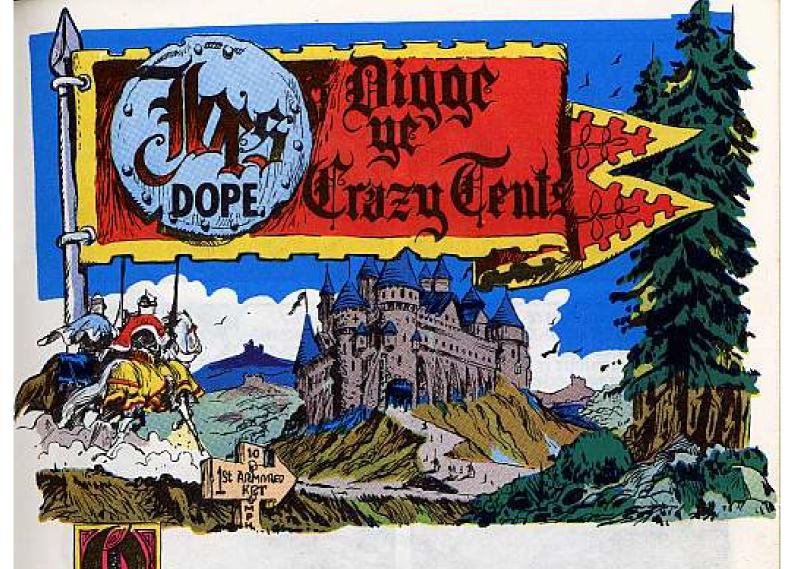
One hundred gallons of fuel, as you know, is equal to 17 seconds of firing time. So, check the firing time indicator, and if you have less than 17 seconds left, add the necessary amount of fuel before you test fire.

Now leaf over to page 43 of TM 3-1040-206-10—para 60 should also refer you to TM 9-7022... the book you need like your right arm when it comes to operation and maintenance of the components in the flame thrower's M48A2 tank hull.

The M7A1-6 MAC (Appendix II) in TM 3-1040-206-20 needs a few more lines of references, like TM 3-1040-206-20P, TM 3-1040-206-30P, TM 3-1040-206-45P, TM 9-2300, TM 9-7022, TM 9-2350-208-20P, TM 9-2350-208-35P.

All of these publications are available now, so start scratchin' around for 'em.

It's a good idea to keep your eyes peeled for any TM Changes or any pubs that will give you new dope on your flame thrower tank.



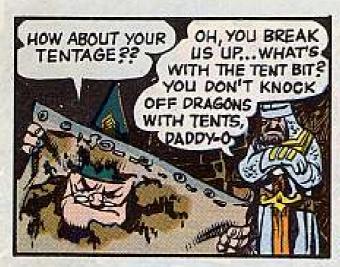
nce upon a time, and all that jazz, there was stationed in Camelot, a real cool line outfit, name of 1st Armored Knights of the Round Table.

Top honcho of this pack was a loaded old cat, name of King Arthur, who, because he had drag up at personnel managed to staff the outfit with some real sharp types.

Besides, they were really ape, and between the Old Man being bugs for shining armor and a pack of crazy cats hot for jousting and dragon-killing scenes, this mob was like murder when it came to mortal combat.





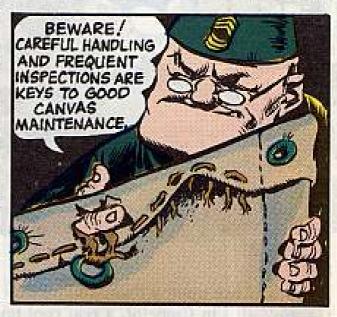




LOOK AT THE CONDITION OF THIS CANVAS!

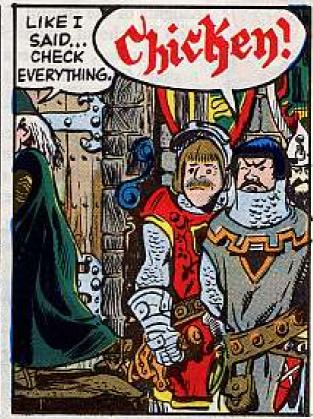
DON'T YOU VARLETS DIG THAT CANVAS IS FOR
THE PROTECTION OF BOTH YOU AND YOUR
EQUIPMENT? WITHOUT IT MAYBE NEXT
STOP ENDSVILLE FOR YOU OR YOUR GEAR.





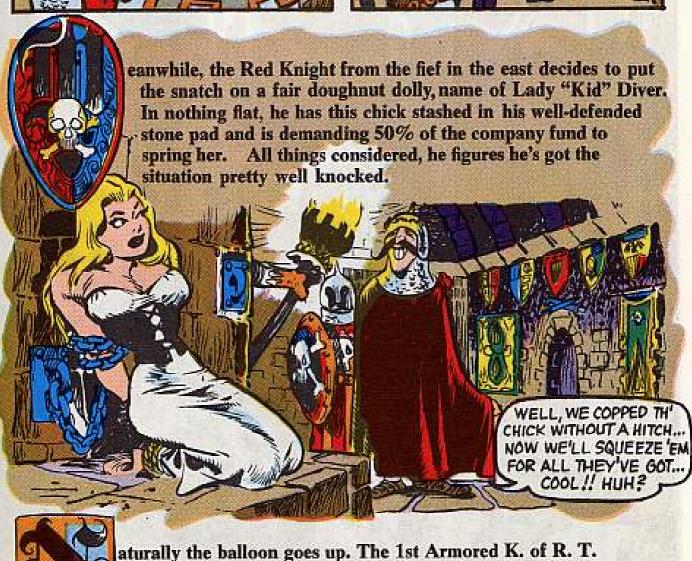




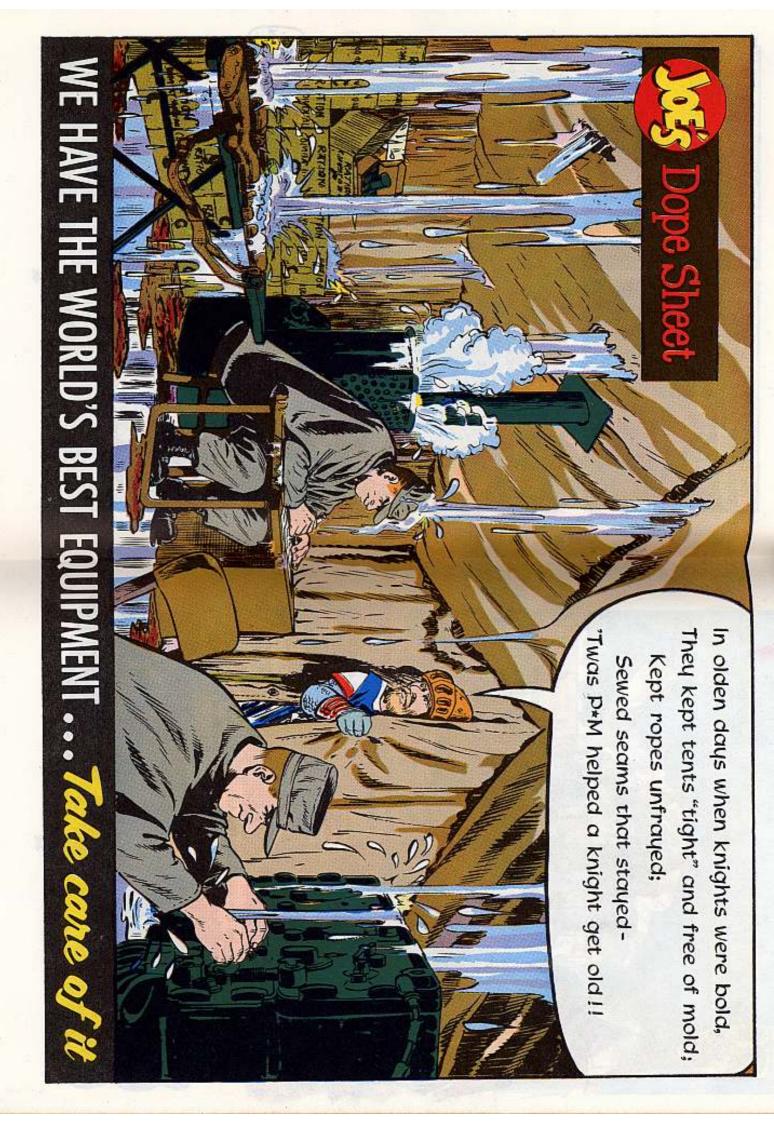


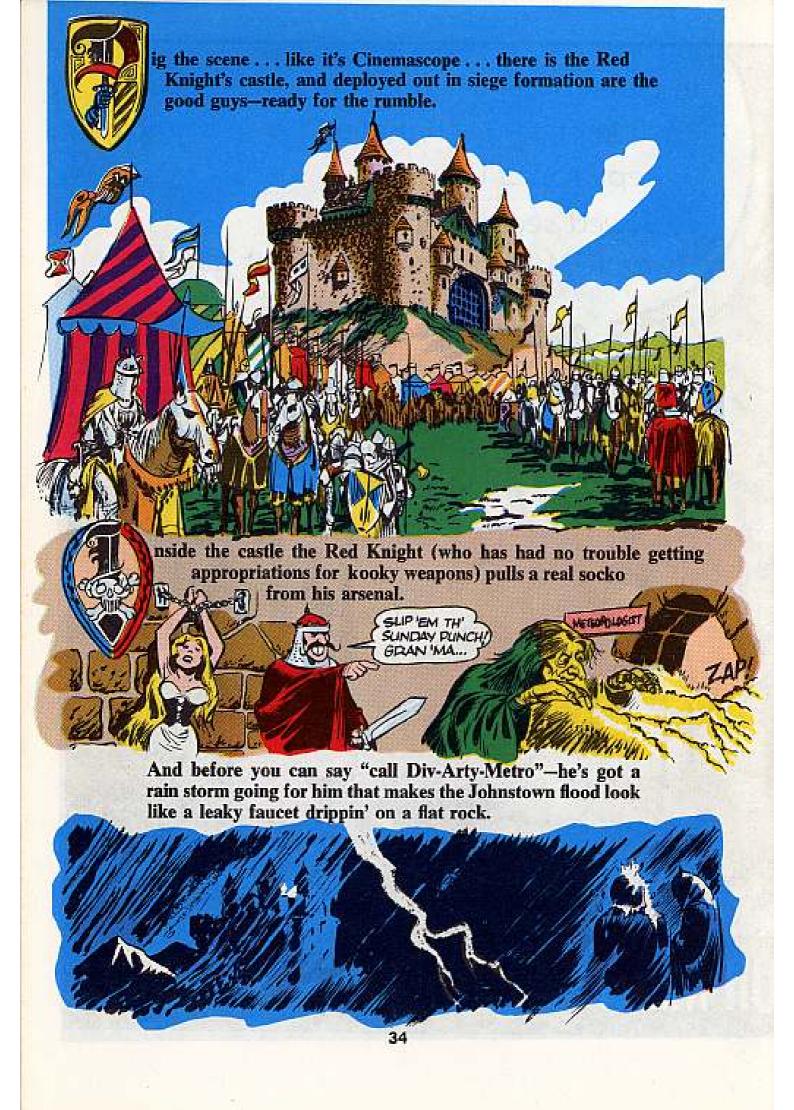




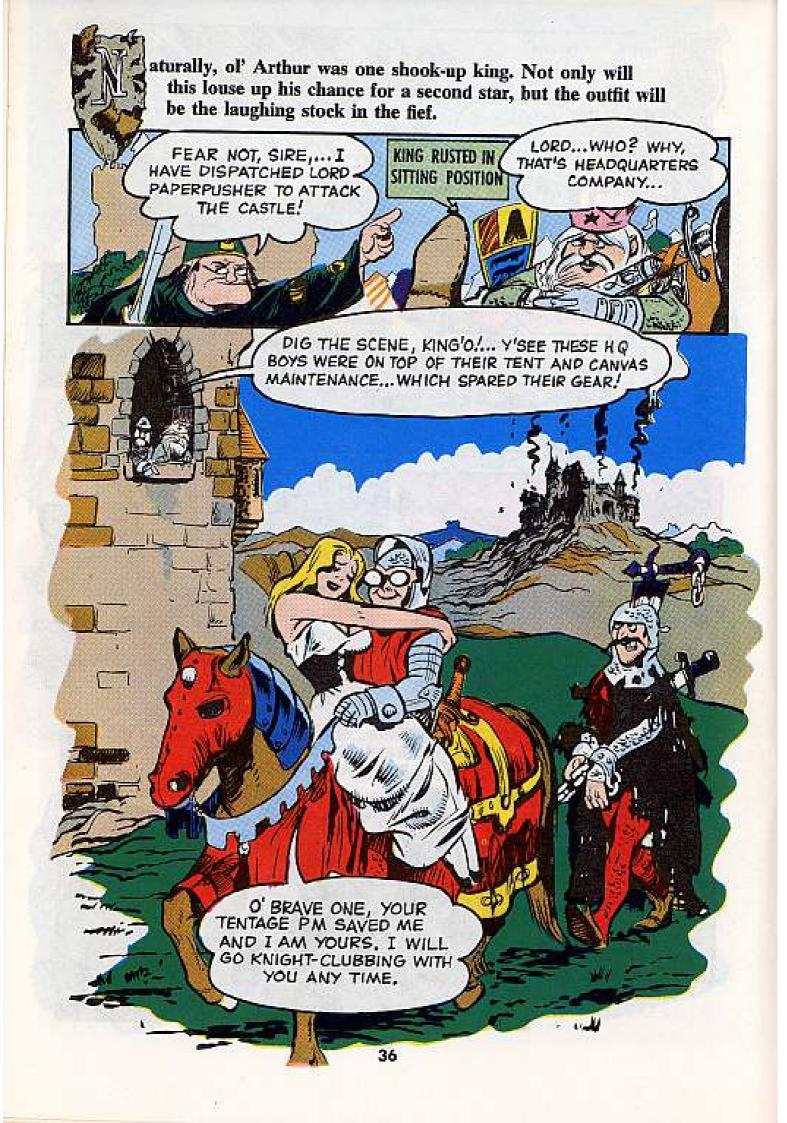














Dear Half-Mast,

Are you sure you gave us the right scoop in Issue 89 on the hydrostatic tests for CO: fire extinguishers?

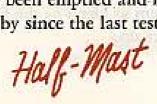
AR 700-8120-1 (25 Sep 59), which covers Safe Handling, Storing, Shipping, Use, and Disposal of Compressed Gas Cylinders, says you give CO<sub>2</sub> cylinders a hydrostatic test every five years—only if they are empty. Otherwise, you empty filled cylinders and hydrostatically test them before refilling if it has been 12 years since they were tested before.

What say you?

Lt B. J. B.

Dear Lt B. J. B.,

At the time the article in PS 89 was set up, the info on the 5-year hydrostatic tests was the straight dope based on AR 700-8120-1 (26 Aug 55). But, right after that the new AR came out superseding the old regs and changing the hydrostatic tests from five to twelve years if the extinguisher has not been discharged. You still have to test the cylinder if it has been emptied and five years have gone by since the last test.







Dear Half-Mast,

How can we clean the track radar radomes at our Nike-Hercules site? They're dirty from'diesel smoke.

Dear Specialist L. P.,

The only way of cleaning the radomes that Ordnance OK's is in TM-9 1430-253-20. And on page 199 it says to use soap and water. You can also use a mild liquid detergent—as long as you follow the directions on the can. It says to do the cleaning once a month-but you can do it more often. If you want to remove the radome so you have it fairly flat for working on, that's all right, too. Don't rub so hard that you batter the radome, tho.

Just don't go fooling around with solvents-carbon tet, turpentine, volatile mineral spirits and the like-you think might make the radomes real white. They might...and also ruin the silicone rubber covering in the process. The same goes with brushes and cleaning powders and pastes made with abrasives. They're too rough.



SP5 L. P.

And don't go fooling around with paint or some other coating to make the radomes real white. That stuff fouls up the radar.

Remember . . . weather, smoke and what-have-you are working on the radomes all the time. You'll never get them as clean as the first day they were put up. Hall-Mast

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#### **GROUNDED GASSER**

Dear Sgt Half-Mast,

What is the regulation way to ground the M131A2 gasoline semi-trailer? I have made a local fix but it's a lot of trouble. There must be an easier way.

Capt T. C.



Dear Capt T. C.,

TB 9-2300-212-20 (21 Jan 59) has the dope on grounding any kind of a gasoline tank vehicle. This TB also has

all the details for rigging a ground line including the FSN's for the needed parts.

# IT'S RIGHT TOOLISH

Dear Half-Mast,

We have a couple of socket head screw key sets in our tool sets for working around equipment in the IFC area at our Nike-Ajax site. You know the keys . . . they have the "L"-shaped handle.

The trouble is, they're not long enough for a lot of jobs we have to do. So,

what's the story on getting longer keys?

Dear Specialist F. L. C.,

Ordnance knows all about your problem.

And, until the long-series key set gets put in your Ord 7 SNL Y4-6, your best best is to pick one up on local purchase. You'll want a set that runs .050-in through \%6-in across the flats and goes under Fed Spec GGG-W-652, Type I, Class B.

SP5 F. L. C.

UNTIL ORD
GETS 'EM, GET
IT THROUGH
LOCAL PURCHASE.



When vehicle engines can be started only once a week, how much running time is needed to keep them in operating condition?

I've recommended at least an hour. This will get the oil hot, evaporate any oil dilution, and re-charge batteries on our wheeled vehicles (1/4-ton through 5-ton), M59 APC's, M48A1 tanks, and M51 VTR's.

What do you think?

#### Dear CWO R. P.,

There's really no answer that'll fit all types of vehicles and weather conditions. Each commander's responsible for making sure his vehicles are in operational condition, so it would seem a local SOP is called for.

Your one-hour running time may be a bit on the high side, depending on how long it takes those engines to reach normal operating temperature.



Under average summer conditions (Stateside, temperate zone weather), 15 minutes of running after the engine is up to operating temperature should be about right. That's usually enough to remove most of the water and fuel dilution from the crankcase, relubricate the engine, and sweep any rust off the cylinder walls and bearings.



In winter, it's likely to take at least 30 minutes, after the engine gets up to operating temperature, to do this job.

When you have the personnel and fuel, it's better to run 'em a little too much 'stead of too little. 'Cause you may be saving the engine from damage that's often caused by things like rust and sticky valves.





Some of the guys at our commo section say certain radio mountings (MT-297/GR, for example) are made out of steel. Others say they're aluminum. What do you say, Sarge?

SFC R. F. M.

Dear SFC R. F. M.,

Both sides are right. Some of those mountings are steel, others aluminum. The aluminum mountings are lighter, rust proof, and require paint mostly for uniformity and camouflage. Easier to maintain.

Steel ones have to be watched for

rust, corrosion, etc., and will always need a zinc chromate primer whenever they get new paint.

A magnet will tell you quick enough which is which since aluminum is not magnetic.

Hall-Mast



#### GAPING GAPS

Dear Sgt Dozer,

We checked out a regulator installed by our field maintenance shop in a Cat-12 8T series grader.

According to TM 5-3805-208-20, this regulator was set right. But something tells me that a gap of 0.038 to 0.043 inch is too big for the cutout relay on this rig. What do you say, Sarge?

M/Sgt R. G.

Dear Sgt R. G.,

I'd say you make a good point. The F-Series voltage regulator that goes on Cat-12 8T Series graders should be set up with a cutout relay gap of only 0.009 to 0.014 inch.



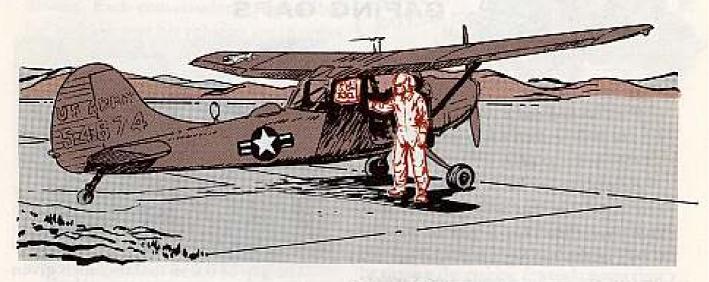
The gap of 0.038 to 0.043 inch given in TM 5-3805-208-20, or the gap of 0.033 to 0.038 inch given in TM 5-3805-208-30 would be OK for the cutout relay in Scries C, D and E regulators—but not for the Series F regulators on your Cat-12 8T series graders.

Sgt Dozer

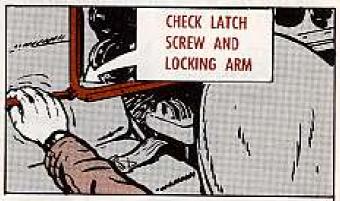


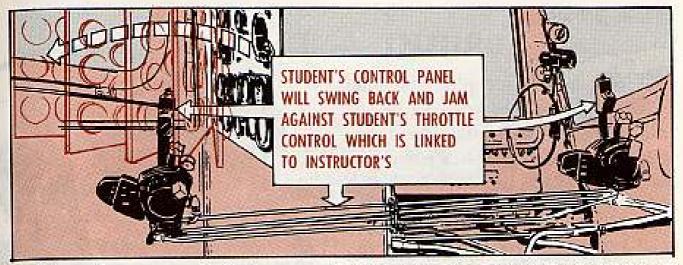
LOCK IT GOOD

No one would be careless enough to ignore the -I and try soloing a Bird Dog trainer (TL-19D) with the student's instrument panel in the stowed position. But a careless preflight can give you the same results.



It only takes an extra second to see that the latch screw on the end of the locking arm is seated all the way down in the right sidewall. Just try to jiggle the arm back and forth a few times to be sure the arm won't pull out in flight.





The only reason you're being so careful about the snugness of the fit is because the two cockpit throttle controls are mechanically linked together.

If the locking arm should jump out in flight, the lower edge of the rear instrument panel could hinge back against the rear cockpit throttle control, jamming both throttle levers.

Which would lead to some interesting in-flight situations for birdmen without three hands.



Dear Half-Mast,

Got a little problem at this field identifying the two stud sizes used for thermocouple terminals in the H-21 (Shawnee) fire detection system. The only place they're listed is TM 1-13F1-4-2 (19 Apr 60), P/N 875479-85224 and 875482-5. But the supply section needs the Federal stock number to order by.

PFC P.T.J.

Dear Private P. T. J.,

Those two P/N's are not in the Army's supply system. Tell your supply section to use FSN 5940-283-5280 (P/N MS 25036-6) for No. 6 stud and FSN 5940-557-4337 (P/N MS 25036-53) for No. 8 stud. Right now there's no way to crosscheck old AF or AN part numbers with the newer MS (military standard) Half-Mast numbers.

BRIGHT AND CLEAR

Plastic bubble canopies and cabin windows deserve the kindest care you can give 'em—that is, if you're a man who likes to see where he's going.

TM 1-1-1A-12 lists FSN 7930-282-8255 and FSN 7930-376-9036 as the only two types of plastic cleaners you're allowed to use. QM supplies 'em. But never—no, never—dip that rag into kerosene, gasoline, mineral spirits, thinners or the like. They'll do such a good job of clouding up plastic the crew'll think that bird's sitting in a constant ground fog.

A mild soap and water treatment will do a fair job in a tactical situation, if the authorized stuff's not around.

Also, anything rougher than a chamois rag, FSN 8330-257-2492 (QM), is guaranteed to scratch plastic, just about as bad as a ring if you forget to take it off. Of course, with no water around,



don't even bother using that rag. Rubbing a dry cloth across plastic sets up an electrostatic charge on the surface which is the greatest little . . . Attracter, Dust: invisible-type . . . you ever saw.

The glass surfaces on some of your aircraft will stand up to a wee bit harder handling, but the safe way is to treat 'em with the same respect as plastic.



We air crewmen and pilots need help fast. How do we get the waterproof air sickness bags some of our passengers (ah, even VIP!) need on occasion? What's the number, and who supplies them?

Dear SP/5 R.C.K.,

The Army Medical Service has just what you need to handle whatever comes up on these flights. It's called: Sack, shipping paper, emesis, 5 lb: 2-ply, adhesive seal and loose wall construction, disposable air sick bags . . . FSN 8105-788-5475,

Half-Mast

SP/5 R.C.K.



As every skipper knows, the real tricky part of handling a vessel comes when you've gotta maneuver in close quarters, like running in a crowded harbor, or docking or undocking.

The larger the vessel the more this is true. And when you get up to vessels that depend on the engineer to start, stop and reverse your engines, you've complicated the job by making a one-man task into a team play.

Consequently, no smart skipper ever depends on a green man, either a helmsman or engineer when working in or out of harbor. Naturally, your men have gotta be trained in mancuvering the vessel, but you give 'em their first crack at it well offshore. A few hours spent running slow ahead, stopping, reversing, and going ahead again out where it doesn't matter will assure you that when you want your engine astern to check your approach to the dock, astern is what you'll get, and right when you ring for it.

Small craft coxswains can practice both picking up a mooring and coming alongside the buoy as though it were the dock until they can handle their craft proficiently. Practice approaches upwind, downwind and crosswind will prepare you for any conditions when actually docking.

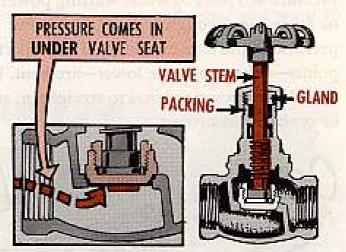
And you won't have to patch and paint your topsides.

## **VALVES IN RIGHT?**

Here's a simple little trick that can save you lots of trouble. When you install or replace a globe valve anywhere in your vessel's piping system, always be sure you put it in so that the pressure comes in under the valve seat.

Why?

So that whenever you close the valve the pressure is sealed away from the valve stem and packing. Then you can repack the valve stem when you have to without looking for another shutoff farther back in the system, or perhaps



having to drain a tank or bleed off air pressure.

Simple, isn't it?



Your compact Davey RPC-15 compressor can do a man-size job of capping missiles. If it's not, chances are it's suffering from one or more of these temporary ailments:

# **SYMPTOM**

#### SERVICE LINE PRESSURE SAGS

Could be caused by:

1. Poorly perforated purifier cartridges.

Seems like the compressor has trouble holding pressure at 3500 PSI while wasting power trying to force air through a brand new, but poorly perforated purifier cartridge. If your perforator points—either upper or lower—are bent, broken or dull, that's your signal to straighten, sharpen or replace 'em pronto.



2. Purifier units not properly assembled and seated.

UPPER

POINTS

First you want to make sure that each O-ring still has enough "give" to do a good sealing job, and is seated right in its groove. When you screw down the head cover, keep on turning until the cover seats tight against the cylinder. Then he sure to back off about 1/12 turn so the O-rings can spring up just enough to give you



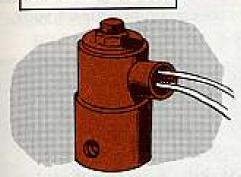
a solid seal.



You can save time and sweat in turning those covers by latching onto a piece of steel about an inch wide and long enough to fit over the studs through a pair of 5/8-in holes. You weld a spare 1-in hex nut in the middle, and you're all set to screw the cover with a ratchet wrench—twice as quick and easy as a pry bar.

# SYMPTOM

#### COMPRESSOR FAILS TO START LOADING



You already have "solenoid valve defective" listed as a probable cause in your pubs—but that's not the whole story.

This solenoid should do its job for a long time if you keep it clean, warm and dry. When you cover the compressor while it's not working, and keep it inside out of dust and rough weather, odds are the solenoid won't let you down.

Your special signal, when the solenoid is sick, is the sound of air escaping down the drain tube when there's no pressure reading on the 2nd and 3rd stage gages.



R

Sometimes you can goose the solenoid back to life by stopping up the drain tube for a few seconds—but you want to replace a weak solenoid quick like a mink.

# SYMPTOM

#### OIL BACKS OUT OF AIR INTAKE

You won't find this signal of faulty operation in your TM for a very good reason. It should never show up.

But if you do see oil backing out of the air intake, don't try to "Doctor" the trouble with home remedies. Call your support unit, and let them locate the stuck valve or leaky O-ring that's making trouble.

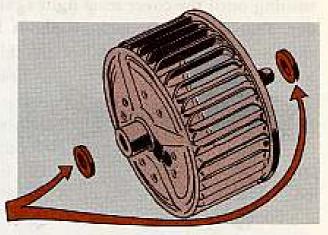


#### COMPRESSOR OVERHEATS

A lagging blower wheel, failing to rev up with the motor and move its fair amount of cooling air, is one more danger signal you can add to the other "probable causes" of overheating listed in your pubs.

Chances are you'll find damaged or wornout friction discs on the wheel shaft when the blower goofs off on its job.

Takes a little time to pull the end panel and the duct cover to get in there and replace those friction discs. But the



disc deal is a breeze compared with the flap that blows up when you suddenly have a heat-cooked compressor on your hands.

# SYMPTOM

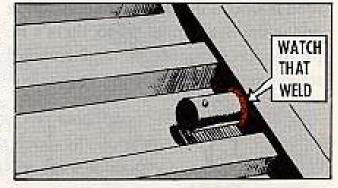
#### FRONT AXLE PIVOTS ON ITSELF

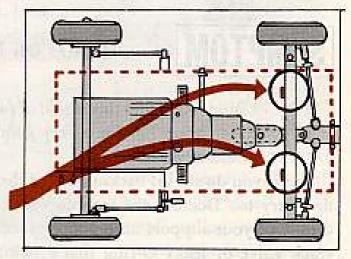
This condition won't cripple your Davey's capacity for compressing air, but it sure lames the frame for towing purposes.

When you troubleshoot this situation, first thing you do is open the door and focus an eyeball on the drawbar trunnion sleeve where it's butt-welded to the frame.

If the weld is broken, you don't horse the Davey around or put any hard pull on the drawbar until the weld is repaired. And if you want to keep this trouble from laming your Davey, here's a coupla things to do before that weld get fractured—

- Adjust the stabilizing plates (sometimes called rubbing plates) so they are just loose enough to allow about 1/4-inch of fore-and-aft play at each front wheel. This leeway lets the front axle "give" on uneven ground without breaking the trunnion weld.
- Regularly lube the stabilizing plates sparingly, like it says in Item 9, LO 5-4310-214-20.







No reason a-tall, for you tankers to operate in the dark when you can use your 18-in shuttered searchlight to throw light on the situation.

Like many another bright eye, if you're good to her—she'll be good to you. When you flick that switch on, it's a mighty fine feeling to see that beam of light cut through the darkness.

Here's a look-see at some gig points that you may run into with your searchlight . . . things that could darken your life.

Minor shortcomings are the ones that won't keep your light from working, but could lead to a major deficiency.

The major ones—and they're in **bold** type — cause extra wear and tear, or make it unsafe to operate.

Make a note of any minor condition that crops up during the operation of the searchlight and take care of it as soon as you stop operating. Call a halt when you come up with a major defect that would damage the equipment if you continued to operate it.

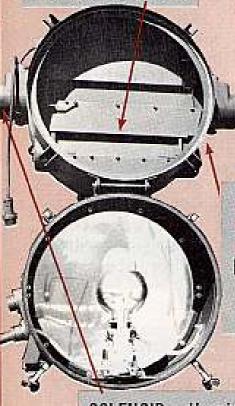
In any event, pass the word along to your section chief if you can't fix the light or don't have the OK to do the job. He'll want to know about it pronto.





## SHUTTER HOUSING ASSEMBLY

SHUTTER — Bent, binds, won't close tightly. Springs weak, broken. Missing or loose nuts and screws.

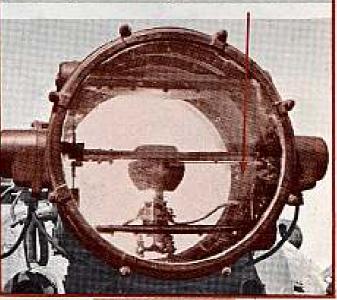


HOUSING— Hinge, pin broken. Nuts, bolts missing, damaged.

SOLENOID — Housing loosely mounted, cracked. Defective solenoid.



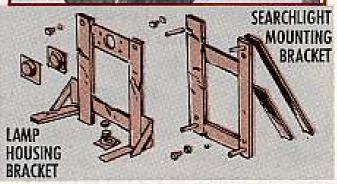
LAMP HOUSING BRACKET — Bent, broken. Cracked, split welds. Mounts worn, cracked. Missing, loose, damaged screws and nuts. LENS—Cracked. Badly scratched. Dirty. Lens retainer cracked, bent, fits loosely. Gaskets chipped, cracked. (The gasket will be destroyed if removed from lens. Remove, replace only as necessary.)



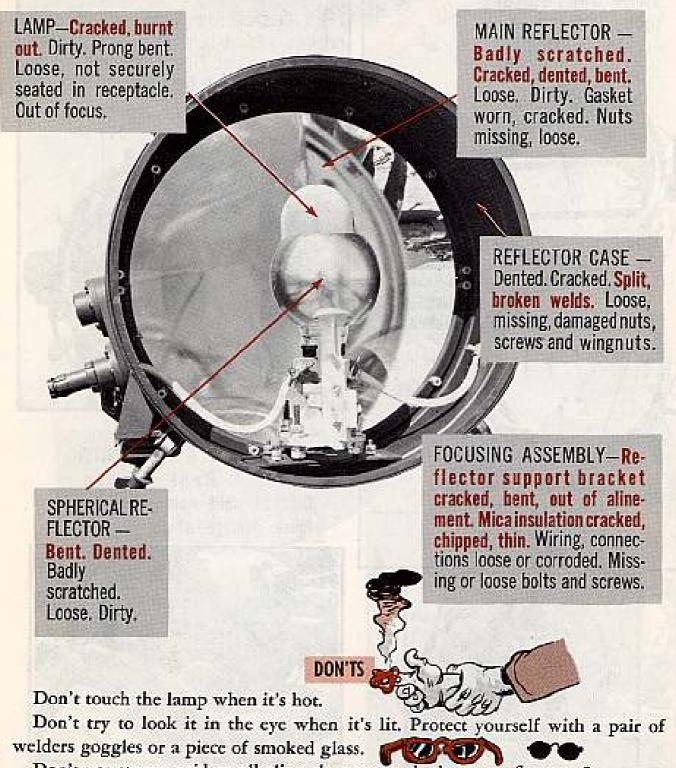
#### **BASE ASSEMBLIES**

SEARCHLIGHT MOUNTING BRACKET — Bent, broken. Cracked, split welds. Missing, loose, damaged studs.





## REFLECTOR CASE ASSEMBLY



Don't use strong acid or alkaline cleaners on the lens or reflectors. Same goes for any type of cleanser that might scratch or damage the glass or polished sufaces. Don't use a circular motion when cleaning or polishing the main reflector.

Use a soft cloth and alcohol, soap and water, or a liquid wax cleaner when you clean the reflector. Stroke the cloth from the center of the reflector out to the edges—not around in a series of circles.

## CONTROL AND ELECTRICAL SYSTEM

SWITCHBOX — Loose mounting. Missing, loose, damaged screws and nuts. Cracked housing. Circuit breaker defective.

POWER RELAY ASSEMBLY — Loosely, improperly mounted. (Can be damaged by gun mount if installed at front of turret too close to gun). Housing cracked, dented. Missing, loose, damaged nuts and screws.

CONTROL SWITCH— Loose mounting. Missing, loose, damaged nuts and screws.

TERMINAL BOXES — Loose mounting. Missing, loose, damaged screws and nuts. Box, cover cracked or damaged.

WIRING — Cracked, frayed insulation. Broken, loose wires. Connections loose, corroded.

#### UNUSUAL CONDITIONS

COLD WEATHER—Snow and ice collected on searchlight, cables, connections. Frost on lamp, lens, and reflectors. Uncovered when not in use.

EXTREME HEAT—Swollen, frayed insulation on cables. Scuffed, chipped paint on housings. Uncovered when not in use.

SALT WATER AREAS — Moisture, dirt collected on searchlight, cables, and connectors. Paint chipped, scuffed. Housing rusty. Uncovered when not in use.

SANDY, DUSTY AREAS—Sand, dust inside light. Lens retainer, eyebolt, shutter shaft covers, connectors loose. Uncovered when not in use.





AN/GRC-46 is built to move with front line units and keep their lines of com-

maintenance on it. Sweeter still is the payoff of that PM later on.

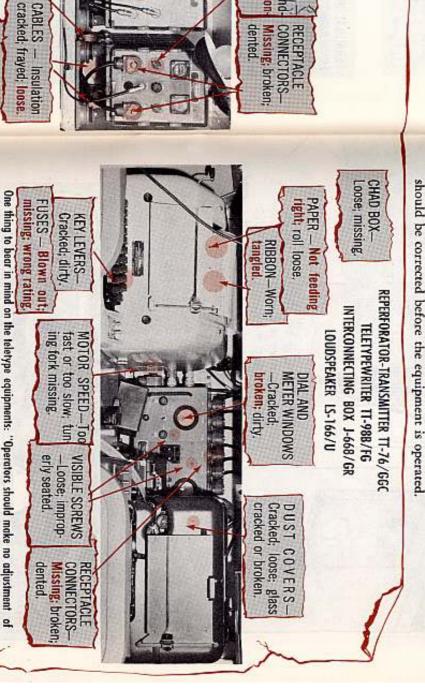
Yet one of the sweet sides of the Angry 46 is the ease of pulling preventive

Like always, the hold faced items represent major trouble spots which

RADIO TRANSMITTER MODULATOR MD-203/GR

munications open and secure. Just about the fastest moving member of the Angry family. Yes, Sir, that

and scene of action.



corroded. BINDING POSTS -Cracked; loose or binding. MOUNTINGS - Bolts loose; locking handles FREQUENCY SHIFT CONVERTER CV-278/GR RADIO TRANSMITTER T-195/GRC-19 RADIO RECEIVER R-392/URR DIAL AND METER WINDOWS— Cracked; broken. FUSES-Missing; wrong rating. ing; fall to make con-**GROUND STRAP** DIALS AND KNOBS -Loose; broken; bind--Loose, not

Scratched; DECALS-PANELS AND

TIONS-Loose; VENT CONNEC-

ioses missing.

connected; dirty

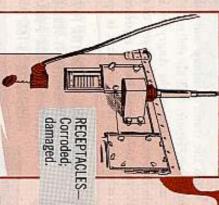
out; tangled WIRING-Dried EXTERNAL

55

equipment. "Tinkering' causes trouble." Strictly a hands-off policy except for the simple checks

needed to keep the gear operational





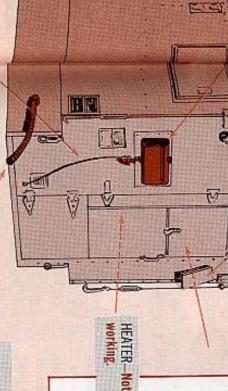
ANTENNA—Ceramic insulator cracked; tie down rope and insulator missing; mounting bracket loose.

ROTARY CONVERTERS

properly.

AIR VENT COVERS — Loose; not operating

FUEL LINE (HEATER)— Damaged; dented; clogged.



HEATER EXHAUST — Clogged; flexible hose not positioned right

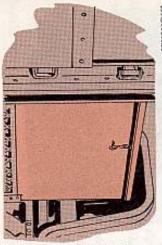


Naturally, the folder hanging underneath the clock is where your DA Form 11-238 goes. Keep your preventive maintenance checks up to the minute and keep the forms for at least two months.

CABLES— Cracked; loose.

MOUNTINGS— Loose; bolts missing.

RECEPTACLES-



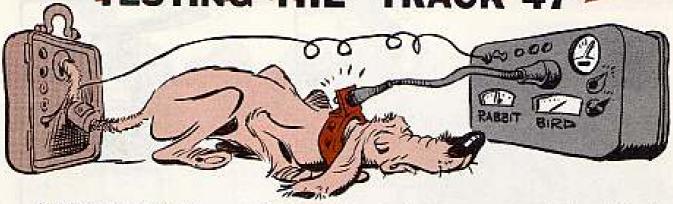
MAINTENANCE
FORMS — Missing;
not properly filled
out.

Pubs, extra paper rolls and ribbons and all that, of course, will be kept handy in the compartment over the heater. Keep that compartment free of anything extra—and keep it latched.

Routine, regular preventive maintenance servicing will make sure that your AN/GRC-46 does exactly what she was built to do—with ease.

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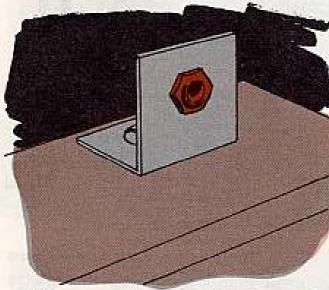
TESTING THE "TRACK 47"



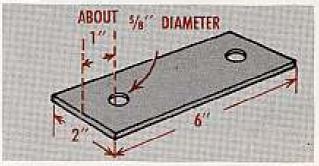
A thin strip of metal . . . a wire or two . . . and some common electronic hardware. Put them together and you have a combination that'll speed up on-thespot testing of any AN/TRC-47 radio set.

The idea is to hook the Track 47 directly to a field telephone, without going through the switchboard. Easy enough to do.

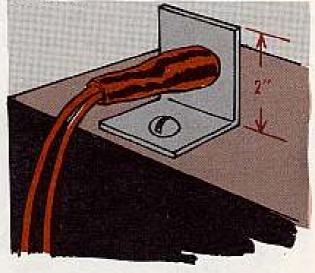
Make one of the world's simplest brackets from a piece of sheet metal 2 inches wide and 6 inches long. Then drill two holes: one to serve as a mounting hole to line up with the holes holding the back cover on, and the other (% in dia.) about an inch from the other end of the bracket.



When you attach the bracket to the case, figure on letting the end with the phone jack stick up about two inches above the top of the case. Also, slide some vinyl tubing or other spaghetti over the phone jack connection to serve as insulation.

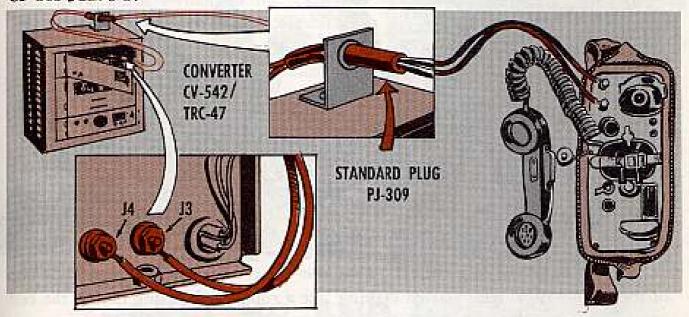


Then mount a standard telephone jack JJ-033 (FSN 5935-192-4729) into that second hole—the one an inch from the end. Follow that up by attaching two leads to the jack, and then secure the bracket to either the left or right side of the back of Case CY-2126/TRCG-47.

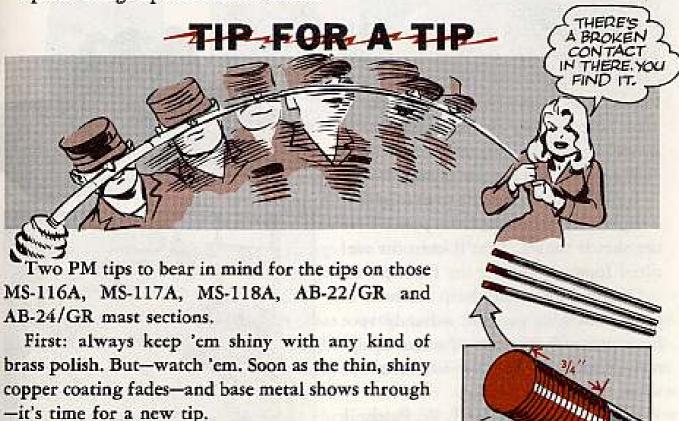


Once the bracket is secure, take the leads from the phone jack and connect them to terminals J3 and J4 of the Converter CV-542/TRC-47.

All that's needed after that is a standard 2-conductor wire—maybe five feet long—with a standard plug PJ-309 (FSN 5935-192-4778) on one end. The other end of the wire, of course, is hooked up with a field telephone such as TA-43/PT or TA-312/PT.



With this simple hookup, a man can pull operational testing and system line up of his TRC-47 without running back and forth 'twixt switchboard and radios. Speeds things up and reduces sweat.



The copper makes the contact—the base metal breaks it.



"Set 'em up in the other alley!" That was the cry for a while every time one of those RL-159/U reels started making like a runaway bowling ball in the bed of our ¾ ton trucks.

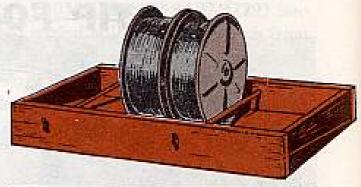
We had knocked knees . . . knocked reels . . . knocked cargo compartments . . and were pretty well knocked up all around. Until we racked up a handy solution to our rolling reels.

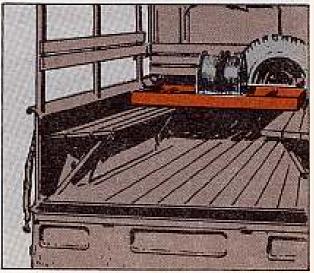
It's a simple rack that secures the RL-159's against the front panel of the cargo compartment. We used scrap lumber and ammo-box rods to make it. Just bolt, screw, or nail together a frame, or rack, that can be laid right across the seats of the rear compartment.

Build it up on one side so as to give it a slight tilt toward the front panel. Like the sketch shows. That'll keep the reel tilted forward against the front panel.

Our racks not only keep the reels in place, but also provide a handy spot for temporary stowage of other equipment, tools, etc. We just lift them out when they aren't needed.

S Sgt F. W. Petchnik 2nd How Bn 8th Arty, A Battery, 7th Inf Div



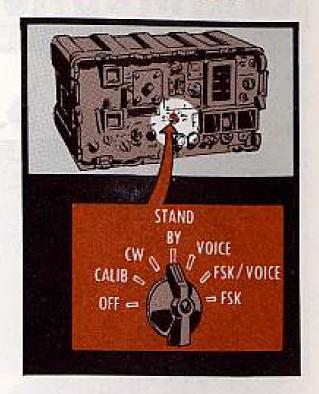


# STAND BY WITH STAND BY

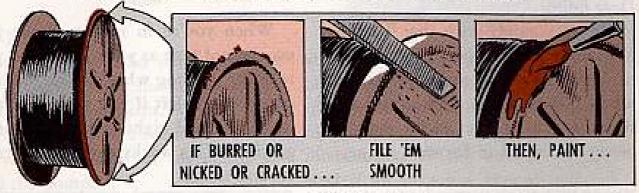
Finished sending? Just standing by now with your AN/GRC-19?

Why not put a finger or two on the Service Selector switch on the T-195 Transmitter and flick 'er to STAND BY?

That'll leave just the tubes heated and the blower motor running. Just standing by, so to speak. Most important, though, it will cut way down on the drain imposed by the radio set on the vehicular battery. And anything that eases the load on the battery adds up to longer and stronger communications.



# REELING AND DEALING



Wire and reels.

They go together like . . . well, Connie Rodd and preventive maintenance!

And when you talk about PM on that kind of wire equipment, such things as nicks, burrs, cracks and rough edges come to mind.

Because any reel worth its wire, has to be checked for anything that might damage the wire during operations. Especially the rim or flange of the reel, which usually bears the brunt of the banging around.

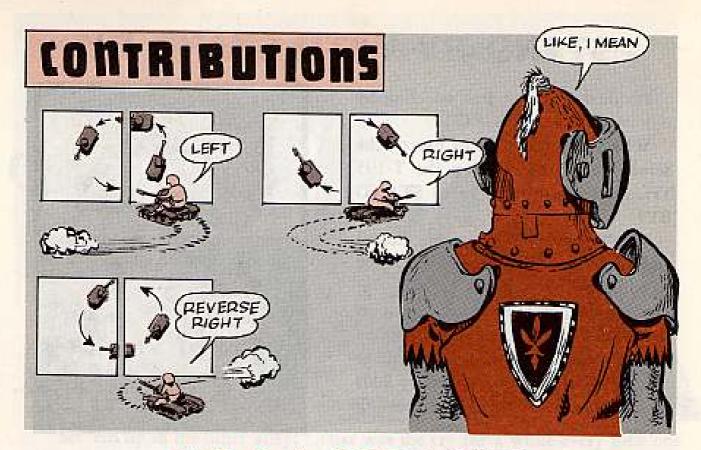
Two PM tips should prevent your

WD-1 wire from snagging or tearing on the reels, or maybe snagging a man's hand.

First, try to handle the reels carefully so's to help reduce any damaging contact.

Second, it only takes a few strokes with a file to smooth off any rough or sharp spots on a rim. Follow that up, of course, with a little touch-up paint.

A little care in handling...a few minutes work with a file... and a few minutes more with a paint brush will keep any reel ready to roll.

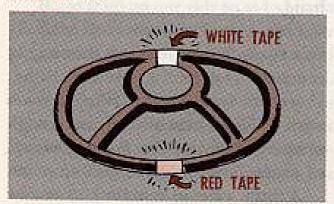


## THIS IS A GOOD STEER

Dear Editor,

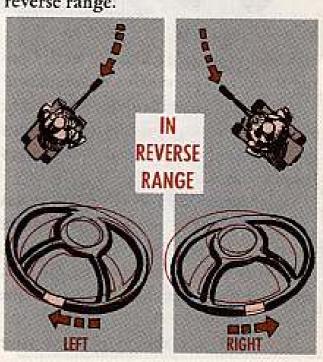
Here's a handy trick that'll tell any M48-series tank driver which way to turn the wheel to make the tank go where he wants it to. This applies to all situations, even the tricky ones like going backward in forward range.

ALL YOU HAVE TO DO IS STICK A PIECE OF WHITE TAPE ON THE FRONT CENTER OF YOUR STEERING WHEEL LIKE SO:



THEN YOU WRAP A PIECE OF RED TAPE AROUND THE WHEEL DIRECTLY OPPOSITE THE WHITE TAPE, AND YOU'VE GOT IT KNOCKED.

When you're in reverse range you use the red tape as your guide and you turn the steering wheel so the red tape moves to the left if you want the tank to go left and right if you want it to go right. This works anytime you're in reverse range.

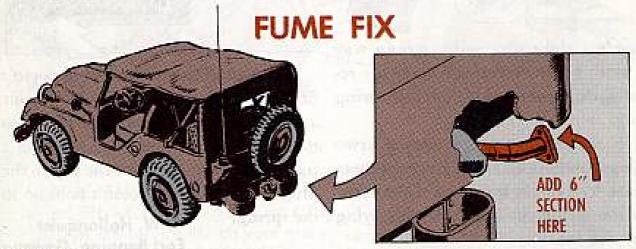




The white tape is your guide for neutral, low, or high. You want the tank to go left, you make the white tape go left. The same with the right.

> SFC Jack Bollard APO 169

(Ed Note-Good idea, but once the driver gets used to it he can take the tapes off entirely and the shape of the wheel will clue him which way to turn. Actually, you should learn to guide by feel even in the daytime so you don't take your eyes off the road or guide.)

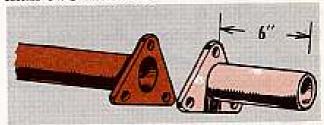


Dear Editor,

Some of our radio operators have been fuming about the fumes comin' from their Jeep exhaust. As you know, the tailpipe ends at a point underneath the vehicle—instead of extending beyond the bumper.

So when the Jeep is standing still—with its radio operating and its engine running—those exhaust fumes start seeping up into the vehicle instead of being thrown out to the side. Hour after hour. You can figure what that could mean to the man operating the radio set.

So our CO gave us the green light to add a short extension to the tailpipe so's to carry the exhaust an inch or two beyond the rear right bumperette. It's nothing more than a six-inch section of pipe held onto the existing tailpipe with the usual three bolts and three nuts used to secure exhaust pipe sections. No modification of the vehicle required. And if an inspector should make exhaust about it, she'll come off in less than two minutes.



The important thing, as we see it, is to keep those deadly fumes away from the vehicle. And our extension does it neat.

SP4 R. M. E.

Fort Hood, Texas

(Ed Note-Looks like you've come up with a quick fix for an exhausting problem. Just as long as your CO says affirmative.)

## ENDS'RE DIFFERENT

Dear Editor,

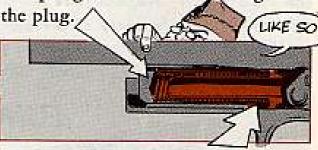
There's nothing in writing so it's easy to see why the man who's supposed to maintain the .45-cal pistol doesn't know



there's a right way and a wrong way to assemble the recoil spring to the recoil spring guide and the recoil spring plug.

If they're assembled wrong, two things can happen when you take them apart. You might lose some of the parts. Or the spring can send the plug flying fast and far.

So the guy who takes the pistol apart should know that the small end of the recoil spring is slipped on the guide. The larger end gets put in the plug and is pushed far enough for the end coil of the spring to hook on to the lug inside



If the small end of the spring doesn't fit tight around the guide, have your armorer-artificer work on the spring so the coil is small enough to give you a tight fit. He can also give the lug in the plug a few taps if it doesn't hold on to the spring.

K. W. Hallonguist Fort Benning, Georgia



Dear Editor,

GET YOUR GEL WELL

BECOMES DISCOLORED

In operating our M42 twin 40-mm guns, we were forever replacing the selica gel containers in the drive controllers. They're a scaled unit and when the desiccant became discolored, we tossed out the entire assembly. But we've found a way to give the desiccant added life.

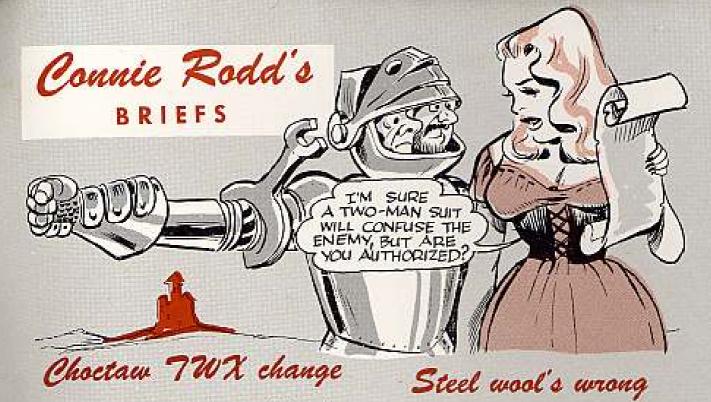
We drill a 1/2-in hole in the top of the container, empty the desiccant and

bake it under a heat lamp until the (dark blue) color returns. Then we pour it back into the container and seal the container with a 1/16-in thick piece of plexiglass. The seal is held by acetate cement.

We find we can use contents and container three times instead of once.

> Armament Section Comb Fld Maint Shop Richmond, Va.

(Ed Note-Watch that heat. The desiccant'll be destroyed if it hits 300° or higher for an hour. So as soon as the desiccant turns dark blue, take it from the heat. Also, if the desiccant doesn't contain much moisture to begin with, you can put the whole container in an oven set at about 150° heat. That saves you the trouble or removing the desiccant.)



If you Choctaw (H-34) wrench benders are confused about following the -6 or TCMAC-EH-34-08-0374 (4 Aug 60)... forget this TWX. It's superseded by TCMAC-EH-34-10-2449 (26 Oct 60), which puts the service life on your main rotor blades, FSN 1560-511-9517 and FSN 1560-511-9522 (both P/N S1615-20100), back in step with the replacement time in your -6. Check the new info!

# Not staked any more

You may have a carbine that doesn't have the gas piston nut staked. It's no goof. It's been found that when the nut's securely seated there's no need for the nut to be staked.

# Look for damage

Next time you're around your Nike-Hercules M442 rocket motor truck, take a long, hard look at the towbar. If you spot any cracks or breaks where the tube assembly is welded to the yoke assembly, buzz your support unit. Your publications don't say anything about using it . . . so don't mess around with steel wool when you clean the electrical parts on your 3.5-in and 4.5-in rocket launchers. The chances are you'll leave some slivers of the stuff behind . . . and that's a right good way to set up things for a short circuit. Stick with dry cleaning solvent or volatile mineral spirits for cleaning any electrical parts. If they don't do the trick, ask your support unit for help.

# Quickway MWO

MWO 5-3810-207-35/1 (12 Sept 60) covers modifications to your Quickway Model M200 crane-shovel. This is an urgent deal and includes the installation of new gas tank, grease fittings in crane houselock shafts, clutch cross shaft and transfer case shift lever, and guard over sending unit of carrier gas tank. Check with your support unit pronto. You'll need the serial number of your rig on the requisition for the MWO kit.

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

