



MAINTENANCE S TRAINING

you ready to be a combat soldier. been aimed at one thing-getting you were sworn into the Army has Everything you have done since

training and work you do. P., map reading and all the other weapons care and firing, guard, K. like your physical training, drill, This everything includes things

nance is a part of it—a real impor-It's all training. And mainte-

go with what you've got.) you have today will do the fighting bat-ready . . . so the equipment job tomorrow. (Remember-you It makes your equipment com-

operation once you're in combat... your equipment maintained and in when the chips are down. You'll have the know-how to keep It makes you combat-ready.

your outfit, for your country. (training) pays off-for you, for That's when real maintenance





hade by the Department of the Army for the information intrational maintenance and supply personnel. Distribution to through normal publication chemels. Whithin limits of the property of the property of the property of the tilly, other issues may be obtained direct from U.S. Army write Beard. Attn.: PS Magazine, Fort Xeon, Kentucky,

THE PREVENTIVE MAINTENANCE MONTHLY

laten He. 125 1963 Series

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PS wasts your ideas and contributed or questions. Harnes and addresses ns, and is glad to answer are kept in confidence.

Sql Half Mash





One thing sure-the M79 grenade launcher is nobody's kid brother.

go and can lob a 40-mm grenade from between 54 to 410 yards (50 to 375 agitators instant support fire on the hoof. meters). It joins the M14 rifle and the M60 machine gun to give you gravel This light (5.96 lb) anti-personnel weapon goes where the front-runners

like all equipment—needs regular doses of PM medicine to remain combat ready. The break-open shotgun type launcher is built to stand plenty of gaff, but-

armorer can only replace seven parts-the firing pin, retainer, and spring, two machine screws and two washers-after that, it's up to your support unit. the scoop on the M79. The .20P manual also spells out that your company TM9-1010-205-12 and TM9-1010-205-20P are the pubs that give you all



N

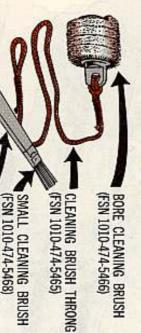




operation. grime, dirt, gummed oil and water are removed before they louse up the Of course, basic care of your weapon calls for making sure things like rust,

and remember not to use anything rougher'n crocus cloth to get rid of rust. So clean and lube the launcher according to the word in TM9-1010-205-12

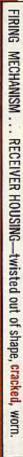
see if anything's busted or missing. Here's your equipment for maintenance. Check 'em and



NOSE Z

(FSN 1005-791-3377 (FSN 4933-474-5467 COMBINATION WRENCH ASSEMBLY LUBRICANT CASE

(FSN 1010-474-5462) SMALL ARMS ACCESSORIES CASE



FIRING PIN-bent, broken, tip burred, worn, missing.





kinked, weak, ends *

burred, worn, missing

burred, stripped, holes

plugged; missing, loose

assembly to keep it tight).

*

worn, bent, miss-TRIGGER-busted,

broken, worn, will not pivot; detent assembly busted, will

not release or lock, missing

TRIGGER GUARD-

twisted,

COCKING LEVER

battered, miss--busted, worn, (use your wrench

burred, missing; dovetall ed, busted off, loose; not blackened; cap screw loose,

FRONT SIGHT_bent, crack-

mount split, worn.

ing, loose.

PAGE 6

REAR SIGHT bent, missRETAINER—threads



HELICAL SPRING-

flattened, split, channels burred, split, missing.

BARREL LATCH LOCKchipped, worn, PIVOT_cracked, BARREL LATCH





chafed, cracked split, bent. LATCH—edges BARREL LOCKING



SAFETY ACTUATOR worn, cracked. -broken, edges



broken, burred, SAFETY-split,

out of shape, missing. SAFETY SPRING—weak





ped, worn.

SWARDING OLD WORN DART'S FOR NEW.:: MAKE SURE THEY FIT!

cracked, chipped, burred, HAMMERbroken, miss-

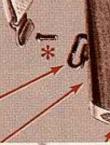




chipped, worn, ed, burred, SEAR—batter-

ing; screws strip-PAD-frayed, bat-RUBBER RECOI ped, loose, busted tered, loose, miss-

splintered, cracked; stockcoat of raw linseed oil) STOCK-dry, (rub in light washers worn, busted retaining screw sheared, loose, missing, burred; receiver retaining screw hole split, stripped, worn;



clamps weak trayed, worn; won't hold, miss-SLING-broken,

missing; screws loose, sheared, worn, twisted, do not move freely,

worn, missing

U



bends, dents; bare powder-fouled, pit-ted, eraded.

A THESE CAN BE DEPLACED BY THE

4RMORER

BARREL—bulges,

FORE END ASSEMBLY

loose, sheared, missing. -dry, splintered; screw



ELEVATING SCREW WHEEL—binds, busted, stripped.

ELEVATION AND WINDAGE SCALES —worn, not clear, hard to see.

SIGHT LOCK sticks, binds, burred, will not release, split, broken.

FRAME BASE split, busted, channels clogged, burred. REAR SIGHT

RETAINER LOCK NUT — stripped, will not lock, worn.

APERTURE
—plugged,
cracked,
worn, not
blackened.

WINDAGE SCREW stripped, burred, worn, hard to turn.

BATTLE SIGHT NOTCH—busted, worn smooth, cracked.

SIGHT BASE SCREW
—loose, stripped,
worn, missing.

SIGHT BASE loose, worn, twisted, broken; screw burred, loose, missing. WINDAGE SCREW KEY —chipped, cracked, word

COCKING ARM twieted

HELICAL SPRINGS weak, worn, kinked, missing. cocking ARM—twisted, broken, bent, cracked; pin and screw loose, sheared, broken, missing. BARREL LOCK-ING LUG—cracked, broken, burred, worn; spring pins sheared, loose, missing.

> EXTRACTOR shaft cracked, worn, broken; lip burred, beatup, worn, missing.

HONEST JOHN

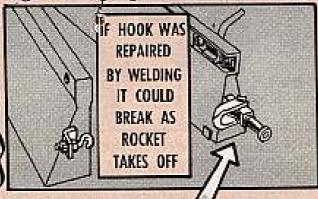
LAUNCHER BEAM AND.

SHOOT AWAY



It doesn't happen very often, but when it does—the M386 Honest John rocket launcher is put out of the launching business.

That's when one or more of the components of the lock for the folding beams poops out as you let go





with a round. And when this happens, the folding beams go to pot mighty soon—like suddenly.

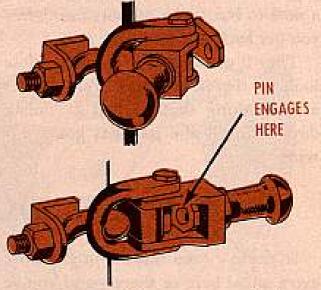
The big troublemaker is usually a part that's been repaired by welding. F'rinstance . . . if the lock hook has been fixed this way, the hook could



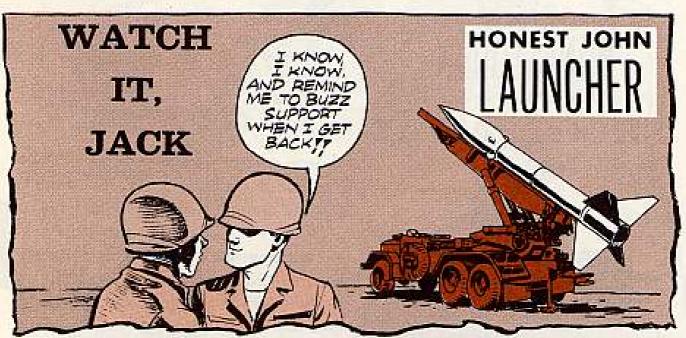
break as the rocket takes off. And this'd send the folding beams into a real flap.

When you come right down to it, any component of the lock group that's been welded makes for a bad deal. And don't let anyone tell you that you can take care of any cracks you spot in the components by calling in the man with his welding equipment. Not on your life. The best place for bad parts is the scrap heap.

You're also buying possible headaches when the locking pin—the one that's part of the knob assembly doesn't engage all the way when you lock the folding beams for firing.



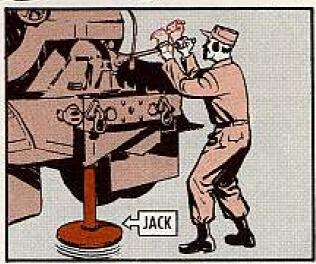
One more thing . . . try to shake the folding beams before you do any firing. If they move, even a little bit, you need to have more tension worked into the lock. It's a job that your support unit can do in no time flat.



OK... so you've finished your firing mission. And you're getting ready to pack up the place with your Honest John equipment.

You start raising one of the stablizer jacks on your M386 launcher and suddenly it pops up about two inches. Right then and there you want to make a note to buzz your support unit when you get back to the battery area.

They'll want to take a long and close look at the jack—'cause the chances are the thing that's called a "nobak device" inside the jack has gone haywire.

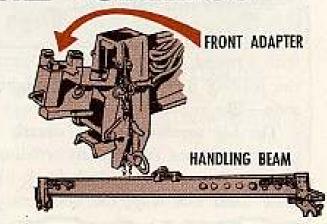


It seems the parts of the device have a way of getting galled and scored. And when this happens, the jack gets the jumps. Even worse, you can't depend on it to do its job of stabilizing.

CAN'T BE DONE - UNLESS

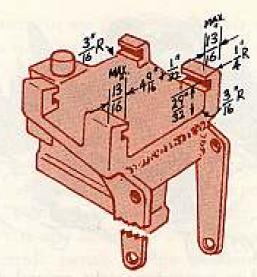
It doesn't take much—just a little extra metal here or there—and you've got yourself an impossible job of trying to move an Honest John XM50 rocket with the handling beam for your M386 rocket launcher.

The troublemaker is the adapter assembly on the handling beam. Some



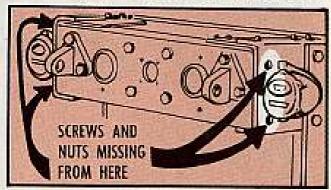
of the assemblies have dimensions that're slightly off—but enough to keep you from putting the beam on the rocket.

If you're up this creek without a paddle, tell your support unit to look over your adapter assembly. If it doesn't measure up to these dimensions, they'll do some machining so that it does.



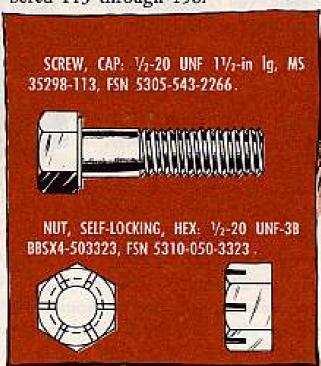
MISSING HARDWARE?

Somewhere . . . there're some M386 Honest John launchers that're minus some mighty important hunks of iron—eight hunks—to be exact.



Those'd be the four cap screws and four nuts that go through the truck frame and cross member at the rear of the vehicle—two of each on each side. And with those screws and nuts missing, you could be heading for a heap of troubles—the bent and twisted frame and cross member kind.

It takes only a quick look to tell if you're missing the hardware. As a clue, the launchers that slipped through without the screws and nuts are serial numbered 113 through 158.





If you're missing the screws and nuts, check the frame and rear cross member before you install 'em. Your support unit may have some straightening out to do first.



And it's as legal as 52 cards in a poker tronic equipment cheats now and again. Any guy who works around elec-

a little far when you cheat the interlock override switches that're put in things ing against parts carrying high voltage. like radar sets to keep you from brush-Trouble is . . . you can carry things And that means fixing the override

HOLLIMS CHEATING OVERRIDE GIVES YOU WHICH LOCK PROTECTION TAKES AWAY

switch-like with a stone-so it stays give is taken away—for as long as you protection the interlock is supposed to advantage of the override like this, the permanently cheated. When you take have the "fix" going for you.

case you touch a "juicy" part. toasted, roasted and then ghosted in shuts off the current so's you don't get cabinets. When you open a cover, say, have inside different covers, doors or with the interlock switches that you the interlock switch takes over and It figures. After all, they're tied in



switch. And if you happen to when you close the cover. when you're done, it'll go in forget to push in the plunger is pull out the plunger on the while you're working, all's you have to do, as you know, If you want current flowing

are taken out of the picture. switch. When you override it. the ones inside the equipment deck is that interlock override The joker in the 53-card

switch inside the cover.

Why should he? He's not going to touch

doesn't bother to pull the plunger on the cover just to look at a chassis . . . and

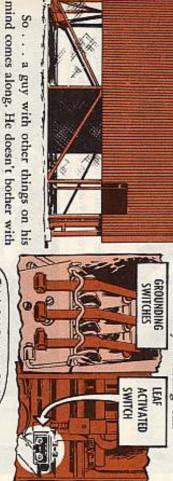
stone in place. cheating for you . . . and then leave the again when you use a stone to do your for time needed. But it's something else This is all right as long as you override

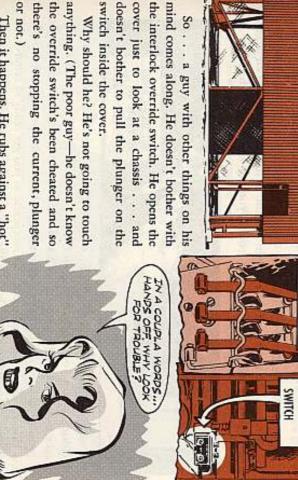
> got stone-happy. battery to see if he can find out who

on. Then you release the override. the equipment and pull the plungerdo it by overriding long enough for if you happen to need to have the power you to get at the interlock switch inside the override-with respect. And you No . . . there's only one way to treat

cheating it. It's a fact. You louse up a stone. the tension the switch is under by override switch by not permanently keeping it closed with something like You also save wear-and-tear on the

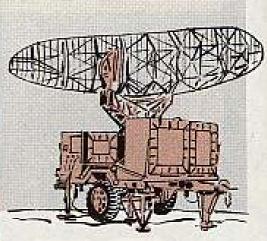
there's no way of closing 'em? that're inside some equipment . . . and grounding switches (ground bars) interlock switches or interlock-type What about those leaf-actuated





part. If he's lucky, he'll get around the Then it happens. He rubs against a "hot"





You have good connections? Not the "I'll take care of you" kind. But the cable variety—the kind you find in any missile and rocket system.

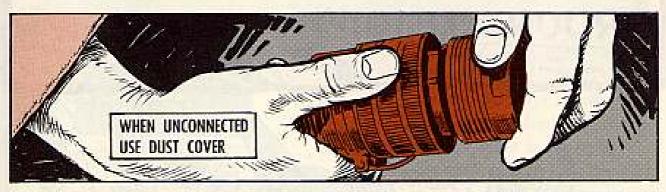
It sure doesn't take much doing to have good connections. F'rinstance . . .



Shove in the connector to make sure you get a good fit—after you've checked the pins close-like to spot any that might be bent. If the connector's on an angle, you could be headed for the brand of trouble you get with crossed threads.



When you remove the connector, take hold of the knurled part—not the shielding, which you might bust. It's also a good idea to lift up on the cable to take its weight off the connector. This lets you remove the connector as straight as possible to keep the pins from getting bent. And it takes pressure off the last few threads of the knurled piece and receptacle as you get ready to remove the connector. Supporting the weight of the cable is also a good deal when you go to connect it.



When the cables're not connected, keep dust covers on their connectors to keep out dust and protect the pins. Use a cover on the receptacle, too.

It also pays to check the connectors after traveling 'cause they can work loose.

And watch yourself when you have more'n one cable to connect on a panel. It doesn't take much to get 'em mixed up.

Another thing . . . if you're supposed to use an insulating compound in the connectors, do it. But use only what you're authorized. And if the word is that the connectors are to be left dry, keep 'em dry.

What about tightening the connectors? How tight do you make 'em?

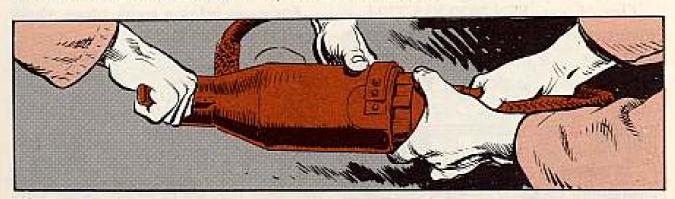
Well . . . they want to be tight enough to satisfy the man who comes around to make an inspection . . . and also to do a job for you. It works out that when you do one, the other happens at the same time.

Anyway . . . here're the things to remember.

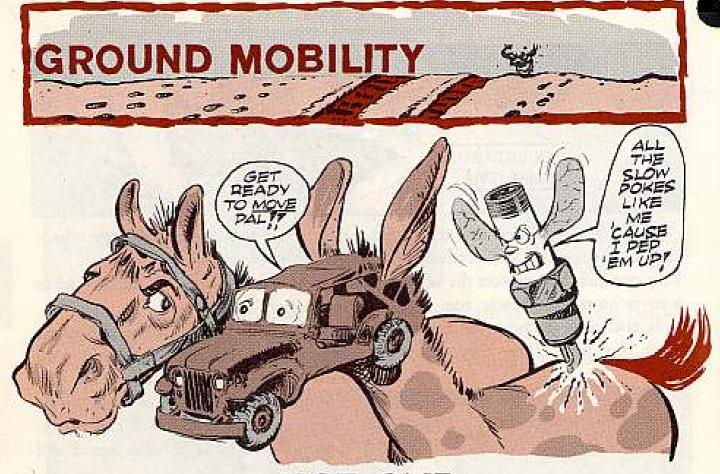
When the man with the clipboard, inspection sheets and pencils hits your battery, he's going to check to see that all cable connectors in or on a major piece of equipment, like a trailer, antenna or missile, are fully seated and hand tight.

And he's going to see if he can break loose by hand the cable connectors that're supposed to be tightened with a wrench. Those'd be the ones between major items and from one area to another.

If he can tighten 'em 1/8-in or more with his mitts, you can figure you've earned yourself a gig. Your best bet, then, is to give the wrench a final tug so the connection is a little better'n hand tight.



Whether those connectors're supposed to be hand tight or wrench tight, just keep hoping that the inspector who comes around to try 'em out didn't grow up on a farm where one of his chores was milking cows.



HOT ONE

Before ordering the spark plugs for your G758-series vehicles, first you want to figure out what use they'll be getting.

Take a glance at TM 9-2300-223-20P (Mar 62), your Consolidated Authorized Organizational Stockage List of Repair Parts for Tank-Automotive Materiel (alias MPLL), and you'll find two plugs listed for these vehicles.

One of 'em, FSN 2920-835-7724, is for normal use. The other, FSN 2920-726-9545, is a much hotter plug. And this one's not yet listed in TM 9-2320-208-20P (Feb 59).

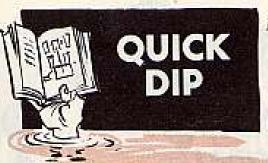


(This hotter plug also is the same one now listed for normal use in the M274 Army Mule.)

So-o-o, if your M38A1 or M38A1C truck or M170 ambulance is seeing a lot of idle operation or is doing beaucoup slow-speed, light-load hauling, the hotter plug is the one you want. But don't forget to switch back when the vehicle returns to normal use.

For more info on spark plugs, check out TM 9-8638 (Dec 56).





Dear Half-Mast,

The lubrication chart in TM9-8024 and LO9-2320-210-10, both on the 2½-ton G749-series truck, says to check the brake master cylinder fluid level every 1,000 miles. What is the right level and how do you check it?

SFC K. L. M.

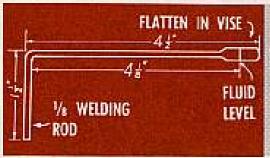
Dear Sergeant K. L. M.,

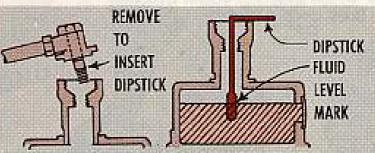
The correct fluid level is 1/2 inch below the pipe-stand.

To check it some outfits have made
themselves a dipstick like this:

Half-Mast

Then they use the dipstick this way:





BRAKE SCREWS NEWS

Sharp-eyed checking and on-time replacement of those brake adjusting screws on your G-749-series 2½-ton vehicles will keep you in business and help you work your way out of a hole, too.

You see, those parts you have in there right now are probably zinc- or cadmium-plated. So, it's best you keep an eye on 'em for rust and replace 'em before they freeze-up on you.

By keeping them replaced before you have to drill 'em out, you'll save trouble and you'll be working your way up to the new stainless steel parts that're being phased into the parts pipeline. Newer brake-adjusting parts will be stainless steel and should help reduce the problem.

HERE'S HOW THEY'LL COME:

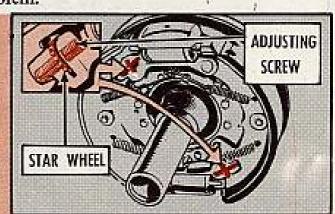
Screw, adjusting,

left-hand thread FSN 2530-770-9150

Screw, adjusting,

right-hand thread FSN 2530-770-9151

Wheel, star..... FSN 2530-770-9149

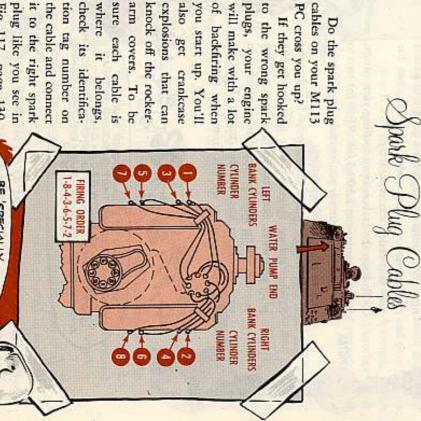


These are currently authorized for some of your G754 trailers.



Make sure the ignition timing like it says in TM9-2300-224-20 (Dec 61) on pages 130-131. Make sure the ignition timing arrow lines up with the 10° mark on the timing plate. A lot of the older M113's were issued with the setting at 16° BTDC. In fact, there may not even be a 10° mark on the ignition timing plate.

If there is no 10° mark, have your support scribe a mark .64 inch down from the 0 mark. Once the mark is scribed—it'll be about half-way between the 5° and the 16° marks—get your timing arrow set on it. This'll stop a lot of trouble,



(PS) MORE

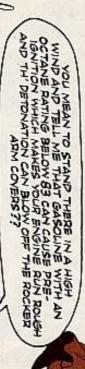
with spark plugs is getting the wrong kind. You need FSN 2920-679-9728. The worst trouble you can have

because it will make your spark plug run too you can get a new one. Don't leave off the gasket hot and you won't get a tight enough seal. If a you're short a gasket, use one from an old plug until you order an equal number of spark plug gaskets. If now you order 'em separately. combination you can order that way, but for new FSN comes through for a plug and gasket gaskets. So, every time you order spark plugs, be sure 1130. The plugs have been coming through without the With each plug you also need a gasker, FSN 2920-314.

run your engine at 2,500-3,000 RPM for two to utes of slow speed operation. five minutes whenever you've racked up 30 min-To keep the carbon from fouling your plugs,

PIGTAIL

out the spring and stretching it or putting in plug gets weak. Some outfits have been pulling two springs to improve the contact. Don't do this unless you get the OK from your support harness spring (pigtail) that goes inside the Your spark plugs might miss because the



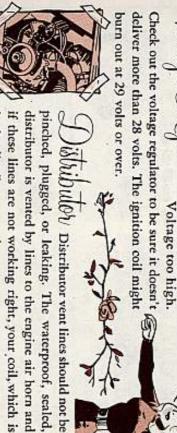
G-3056B or Federal Spec VV-G-76. you are getting should be covered under Mil Spec MILwrong, have your supply people check it out. The fuel out your piston crowns, so if you suspect something is Gasoline with an octane rating under 83 can also burn

)eeu The normal idle speed of 650-700

a long period, he had best step it up to 1,000 RPM. burn off the carbon. So-o-o, if the driver has to idle for the plugs foul up because they don't get hot enough to train all the oil they need for long-time operation. Also, RPM is too slow to give the cylinder bores and valve



S of leaving your ignition switch on for long periods can be switch conks out, your engine might flood. Another result out. It also puts a strain on the fuel interlock switch. If this arcing which pits the distributor points. heats up your ignition coil, shortens its life and may burn long periods without the engine running causes trouble. It anition Switch Leaving the ignition switch on



directions or you get no air flow. You need one tip pointing in the direcboth point the same way you are likely to get a burned out coil. tion of air flow in the horn and one against the direction of flow. If they inside the air horn. The tips of these tubes must be pointed in opposite The vent lines from the distributor to the air horn end in a pair of tubes in the distributor, can burn out.

will work fine. So, like the poet says, make your check by the numbers and your M113

18



tool you need. Asking for a tool by the right nomenclature and FSN will help you get the

2d ECHELON) SET NO. 2, SUPPLEMENTAL, FSN 4940-754-0743. TOOL KIT, AUTOMOTIVE MAINTENANCE, ORGANIZATIONAL: For instance, if you want to order a No. 2 supplemental tool kit you ask for

items in the kit. The line item number is 453910. The SM 9-4-4940-A08 (18 Sep 61) lists the

9254), you would order it from your Quartermaster support unit. responsible for the item. Say you need the blacksmith's apron (FSN 8415-234 if you just need some items in the kit you have to order from the support service If you want the whole kit you order it from your Ordnance support unit, but

for the items in the kit, here's a list for you to go by. To help you with the FSN's, nomenclatures, and support service responsible

sealed elec system, for tracked vehicles, five ADAPTER SET, ENGINE ELECTRICAL TEST: 24 v adapters in mtl bx.

-ADAPTER, ENGINE ELECTRICAL TEST, AR-

FSN 4910-378-2020

FSN 4910-378-2015 MATURE AND OUTPUT CIRCUIT: sgle, size O

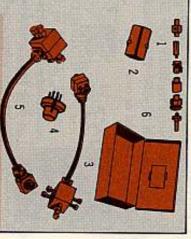
2-ADAPTER, ENGINE ELECTRICAL TEST, RE-FSN 4910-378-2016 VERSING: no. 1, 3-pin

3-ADAPTER, ENGINE ELECTRICAL TEST, GEN-

VERSING: no. 1, 3-pin. 4-ADAPTER, ENGINE ELECTRICAL TEST, RE-

ERATOR CONTROL CIRCUIT: no. 1, 3-pin, six cond. cable to term. block, six terminals. FSN 4910-378-2017

FSN 4910-378-2018



ERATOR CONTROL CIRCUIT: no. 2, 3-pin, four 5-ADAPTER, ENGINE ELECTRICAL TEST, GENcond. cable to term. block, four terminals.

6-BOX, ADAPTER SET: tracked vehicle FSN 4910-604-4149



FSN 8415-234-9254

2

243 cu ft cyl water pumped, ARGON, TECHNICAL



6830-290-4291 (full)

ENG.

dia of center opng. center opng, 6-in od, 2-in 0.014-in dia, 11/8-in w thru BRUSH, WIRE ROTARY WHEEL: crimped S wire



FSN 5130-473-6444

皇

rows, wire. BRUSH, WIRE, SCRATCH: stis-S, ig hdi, 3 x 19

R ac/dc, 115 v, w/ver ABLE: 34-in size, hv-duty DRILL, ELECTRIC, PORT

6¼-in lg brush part, 14-in lg overall clear of block, four rows w, 18 rows ig. 6-in to BRUSH, WIRE, SCRATCH: S wire, curved hdl, rocker rectangular face, 136-in to 134-in lg



FSN

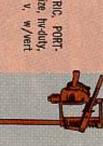
50 ft Ig incl terminations, for general purpose cond w/three no. 12 AWG rubber-insulated CABLE ASSEMBLY, POWER, ELECTRICAL: three use, w/accessories. wires, 600 v working voltage, wire type S0



FSN 6150-682-3460

CHISEL, HALF ROUND NOSE, HAND: 34-in w





21

20

DRILL, TWIST: HSS, stight rd shk, fractional series, two flutes, rh cut. QM



FSN	DIA.	FLUTE LGTH.	O'ALL LGTH.	AMT.
5133-266-9461	33/64-in	4%-in	8-in	J
5133-266-9462	17/ ₃₂ -in	434-in	8-in	1
5133-266-9463	35/64·in	4%-in	844-in	1
5133-266-9464	%s-in	4%-in	8¼-in	2
5133-232-2867	37/64-in	4%-in	834-in	1
5133-233-6455	19/ ₃₂ -in	4%-in	834-in	
5133-266-9465	39/64-in	47/a-in	834-in	Î
5133-266-9466	5%-in	4%-in	834-in	2
5133-233-6395	41/64-in	51/a-in	9-in	1
5133-266-9467	21/32-in	5½-in	9-in	1
5133-232-2868	43/64-in	53%-in	9¼-in	1
5133-266-9468	Wis-in	53/6-in	91/4-in	1
5133-266-9469	45/64-in	55%-in	91/2-in	1
5133-266-9470	²³ / ₃₂ -in	55%-in	9½-in	1
5133-233-6461	47/64-in	57⁄a-in	934-in	1
5133-266-9471	34-in	5%-in	9¾-in	2

ELECTRODE, CUTTING AND WELDING: for 1/4-in to 11/2-in mtl thk, ac/dc, elec arc.



FSN 3439-766-7749

10 ORD



GAGE, GAP SETTING: six blades 0.015-in, 0.018-in, 0.022-in, 0.025-in, 0.030-in, 0.033-in thk, stght folding type feelers, w/o lkg tension device, w/gap adj tool, mtl holder, nine blades, thk ga & 2-in rule grad in ½2-in.



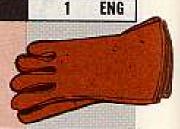
FSN 5210-221-2017

GENERATOR SET, GASO-LINE ENGINE: ac, 60 c, 1.5 kw rating, 120 v line to line, air cooled, manually cranked by rope, skid mtd, 30-in lg x 19-in w x 26-in h, winterized.



FSN 6115-245-2522

GLOVES, LEATHER: men's cowhide work type w/ gauntlet cuff, cotton & wool knit Ind, cream or light gray, large size.



QM

CML

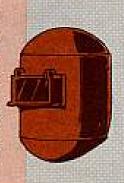
FSN 8415-268-7859

GOGGLES, INDUSTRIAL: ventilated plastic, w/eye cups, adj nose bridge, one clear glass lens ea aperture, not polarized, hardened, rd, 50-mm dia, headband supported, worn over personal spectacles, w/o carrying case.



FSN 4240-269-7912

HELMET, WELDER'S: fbr body, one pc molded or riveted seamed, hinged glass holder, tilting headgear, one unhardened CObs shade 10 filter glass, one hardened & unhardened clear cover glass, 2-in w x 4½-in lg.



FSN 4240-540-0623

2 CML



LENS, HELMET, WELDER'S: filter shade no. 10.



CML

ORD

OM

FSN 4240-276-8940

LIGHT, IGNITION TIMING: three lead type, 4½-v btry reqd, neon bulb element, rect sh-mtl case, 8½-in lg x 3½-in w x 4-in h overall excl wire leads, 48-in lg pos, neg, & h tension leads, spg clip type term.



FSN 6625-255-1449

MEASURE, LIQUID: 8-qt cap., w/flex spout & flow control valve, S, fin. to be water, acid, alcohol, oil, & gasoline resistant.



FSN 7240-255-5996

MITTENS, CLOTH: men's asb work type w/gauntlet cuff, one sheath excl thumb, one, two, three, & four sheathed fingers, napped natural wool, knit Ind.



FSN 8415-266-8843

MULTIMETER: range 0 to 5000 v ac/dc in steps, 0 to 500 ma dc in three steps, 0 to 400000 ohms in two steps, 3% accuracy on dc range, 5% accuracy on ac range, 1000 ohms per v ac/dc range sensitivity, 3½,4-in w x 2½,4-in thk x 5½-in h overall, plastic case, for general purpose use, w/e.





FSN 6625-543-1438

OILER, HAND: 1 pt cap., force feed by int pump, S body 3-in to 4-in dia, 9-in lg flex S spout.



FSN 4930-262-8868

1 QM

TC

spg, w/bracket. stight tips, w/adj stop & 1-in ring size, 0.038-in dia exter fl jaws, 0.087-in to PLIERS, RETAINING RING.

FSN 5120-288-9717

in to 2-in ring size, 0.070-in dia stght tips, PLIERS, RETAINING RING: exter fl jaws, 1.430w/adj stop & spg.

int fl jaws, 0.031-in ring size, 0.022-in dia stght PLIERS, RETAINING RING.

£

FSN 5120-293-0049

FSN 5120-596-8665 tips, w/adj stop & spg. size 2 & type 12, size 3 attachment, type 17, class 2, style A, sizes 2, 3, 6, 8, 9, 10 & 12 adapters ULLER KIT, MECHANICAL: gear & brg. type 7, size 3, w/4½-in, 9½-in, & 16½-in legs, type 11, 웊 FSN 5120-223-7396 cutter, 6-in size. nose, comb. w/ FSN 5120-293-0046

FSN 5120-633-5085 Consisting of: Puller, Mechanical, with 9½-in legs. NF-2, 11/6-in o/a ig. Adapter, Puller: female, 56-18 NF-2 & 56-18 FSN 5120-423-1596

NF-2, 1½ in o/a lg. Adapter, Puller: female; 56-18 NF-2 & 114-12

NF-2, 15% in 0/a lg. Adapter, Puller: female, 56-18 NF-2 & 115-12 FSN 5120-357-5185 呈

Legs, Mechanical Puller: pair; 4½-in long. FSN 5120-357-5186 웊

NF-2, 11/2 in 0/a |g.

Adapter, Puller: female; 56-18 NF-2 & 76-14

FSN 5120-357-5181 NF-2, 11/2 in 0/a lg.

Adapter, Puller: female, 56-18 NF-2 & 34-16

FSN 5120-357-5180

2

FSN 5120-357-5182

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FSN 5120-357-6330

R

FSN 5120-180-1013

FSN 5120:234:765

Adapter, Puller: female: 58-18 NF-2 & 1-14

FSN 5120-490-3749 Legs, Mechanical Puller: pair; 161/2-in long. S

Puller Attachment, Mechanical

ternal; 1 to 9-in spread range, 6-in inside Puller Attachment: mechanical; bearing ex-FSN 5120-355-6220 width, %-18 NF-2 thread size.

Ig. 11%-in width, 2½-in high.

FSN 5120-357-5463

물

FSN 5120-711-6753

hasp & staple, leather suitcase handle, 271/2-in Box, Puller Set: sheet steel, hinged cover, FSN 5120-357-5184 NF-2, 154-in o/a lg.

Adapter, Puller: female; 56-18 NF-2 & 156-12

FSN 5120-357-5183 NF-2, 11/6-in 0/a lg.

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w/adj stop & spg, w/bracket. PLIERS, RETAINING RING: int fl jaws, 1.020-in to 1.370-in ring size, 0.038-in dia stght tips,

PLIERS, RETAINING RING: int fl jaws, 1.750-in FSN 5120-293-0048

FSN 5345-196-1689

T FSN 5345-196-169

36 grit Disk —

I-in sq-drive, hex opng.

물

SOCKET, SOCKET WRENCH: u/o power tools,

24 grit Disk —

stop & spg. to 2-in ring size, 0.070-in dia stght tips, w/adj

全

FSN 5120-293-0045

w/adj stop & spg. PLIERS, RETAINING RING: int fl jaws, 3 in to 3.500-in ring size, 0.090-in dia stght tips,

PLIERS, SLIP JOINT: stght

nection, w/gnd lead, w/three 7-in abrasive attachment plug, w/adpt for two prong condia, hv-duty, ac/dc, 115 v, w/three prong

disks, 24 grit, 36 grit, & 60 grit.

SANDER, DISK, ELECTRIC, PORTABLE: 7-in pad

FSN 5130-221-8017

13/16-in

15/16-in

FSN 5130-293-1411

OPN'G

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FSN 5345-196-1697 60 grit Disk -

£

SCREEN, WELDING: col-

FSN 5130-293-0872

£

FSN 5130-221-8024 FSN 5130-221-8023 FSN 5130-221-802/ FSN 5130-221-8021 FSN 5130-221-8020 FSN 5130-221-8019

111/16-in

17/14-in

136-in

11/2·in

1%-

FSN 5130-618-7786

113/16-10

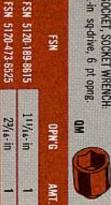
FSN 3431-357-7111

ENG

A GREAT TOOL BUT IS IT BUSHT FOR THE JOB?

w flared tip, 6-in Ig blade. wrench grip, bolster, forged, hv-duty, 1/4-in SCREWDRIVER, FLAT TIP: plastic hdl, w/

SOCKET, SOCKET WRENCH FSN 5120-278-1283 1-in sq-drive, 6 pt oping.





50 deg incl bev taper seat, 36-18NPSH fluid body, 14-18NPSH air,

8

to 60 lb pressure, al

215/14-in FSN 4940-261-8415 60 deg incl bev taper seat. capacitor-resistor. TEST SET, IGNITION COIL

FSN 4910-300-1305 MORE 용

25



24

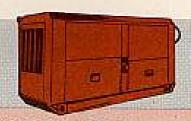
TESTER, INTERNAL COM-BUSTION ENGINE: Unmounted, for testing manifold vacuum & fuel pump pressure, compression & vacuum ga-0 to 8 lb pressure, 0 to 27-in vacuum, w/e carrying case.



FSN 4910-255-8673*

*Component parts are not stocked for issue,

1 ORD



WELDING MACHINE, ARC: Generator; gasoline engine driven single operator; remote control; 300 amp, dc arc; skid mtd; 60 amp at 20 v min, 375 amp at 40 v max current; ac, 115 v, single phase, 60 cycle, 3 kw auxiliary power.

FSN 3431-542-1072

ENG

WELDING SET, ARC, INERT GAS SHIELDED: plastic or mtl Ind gun, eqped for ¾44-in wire, 115 v, •dc, w/accessories.

FSN 3431-691-1415

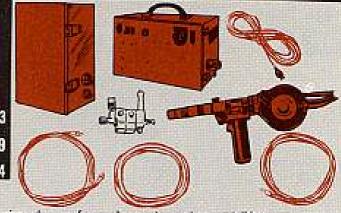
This welding set listed under the family FSN. 3431-691-1415 has the following specific makes and models of Engineer equipment:

Wesco Model SA-111-AC/DC FSN 3431-837-5573

Wesco Model SA-135

FSN 3431-879-9709

Linde Co. Model "Sigmette" FSN 3431-837-5574



The following high mortality parts or accessories show mfrs code, part number and FSN.

Wire, AL., Type 5356, 3/64-in dia,

1 lb spool.

Nozzle, Linde Co (36346) 105Z20

Nozzle, Wasco (88725) 311B703H02 FSN 3431-446-2542

Adapter (88725) 419A003H01

Roll, drive (36346) 48 V 35

Roll, drive (88725) 419A009G-01

FSN 3439-775-6476

FSN 3431-893-3140

FSN 3431-875-7930

FSN 3431-893-3126

FSN 3431-875-7633



WRENCH, OPEN END, BOX: flare nut type, sgleend, 13a-in 12 pt opng.

FSN 5120-277-2697

OM

1 WRENCH, OPEN END, FIXED: dble-hd type, 15 deg angle, 15/16-in & 111/16-in opngs, 34-in thk hd, 15% in Ig overall.

FSN 5120-449-8141

QM

WRENCH, OPEN END. FIXED: dble-hd type, 45 & 90 deg angles, %16-in opng, 13/64-in thk hd, 61/2-in lg overall.



FSN 5120-449-8138

QM

WRENCH, OPEN END, FIXED: dble-hd type, 15 deg angle, 13%-in & 11/2-in opngs, 7/16-in thk hd, 15½-in lg overall.

FSN 5120-277-2325

QM

WRENCH, OPEN END, FIXED: dble-hd type, 15 deg angle, 1½-in & 1¾-in opngs, ¾-in thk hd, 161/2 in Ig overall.

FSN 5120-277-9818

OM

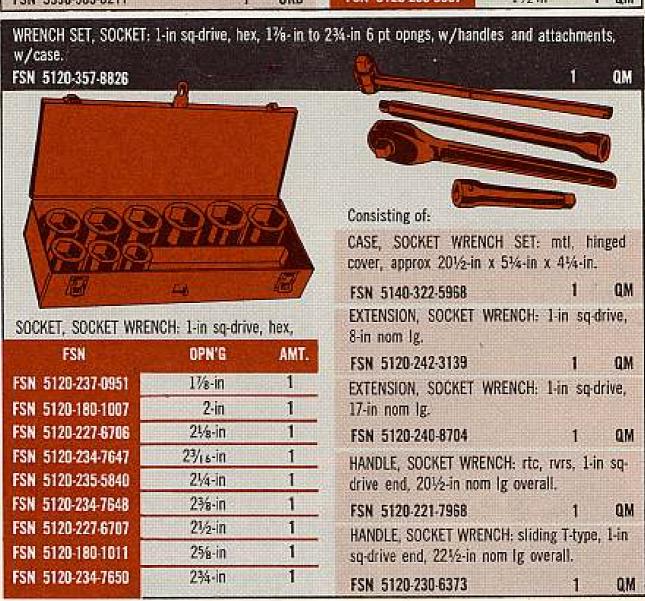
WRENCH, OPEN END, FIXED: dble-hd type, 15 deg angle, 17/18-in & 15/6-in opngs, 41/64-in thk hd, 17-in lg overall.

FSN 5120-277-2326

1 QM



WRENCH, IMPACT, ELECTRIC: 1-in sq-drive, 1-4-in bolt dia cap., ac/dc, 115 v, 60 c, sgle-ph, rvrs. FSN 5130-317-8058 Consisting of: EXTENSION, SOCKET WRENCH: designed for power tools; sq end 1-in, 7-in lg. OM FSN 5130-449-6656 PIN, SOCKET RETAINER. SOCKET SOCKET WRENCH: 1-in sq-drive. FSN 5130-390-5187 1 QM OPN'G FSN AMT. CONNECTOR, PLUG, ELECTRIC. 13/14-in FSN 5130-293-1416 QM FSN 5935-054-3802 SIG 15/16-10 FSN 5130-293-1414 OM PACKING, PREFORMED, "O" ring, 17/18-in QM FSN 5130-596-1155 1¾-in ID, 2½-in OD, ¾16 o /a height. FSN 5130-293-1415 134-in QM FSN 5120-235-5837 13/5-in OM FSN 5330-505-6211 ORD





WRENCH SET, SOCKET: %-in sq-drive, 5/16-in to 34-in 12 pt opngs, w/handles and attachments, w/case. FSN 5120-449-8200 2 QM WHY NOT TAKE AN Y'GOT | Consisting of: HANDLE, SOCKET WRENCH: brace type (speed-BIT, SCREWDRIVER: fl tip, 11/16-in w, 36-in er), 36-in sq-drive, 16-in nom Ig overall. female sq-drive shk, 11/4-in lg overall. FSN 5120-237-4969 QM FSN 5120-243-7332 QM HANDLE SOCKET WRENCH: hinged type, 36in sq-drive, 81/2-in nom lg overall. BOX, SOCKET WRENCH: FSN 5120-240-5396 QM FSN 5120-449-8200 QM HANDLE, SOCKET WRENCH: rtc type, rvrs, 34-CROWFOOT ATTACHMENT, SOCKET WRENCH: in sq-drive, 6-in nom lg overall. nonratcheting open end type, 34-in sq-drive, 1/2-in opng. FSN 5120-240-5364 QM HANDLE, SOCKET WRENCH: sliding T-type, 3/6-FSN 5120-184-8384 QM in sq-drive, 7-in nom lg overall. CROWFOOT ATTACHMENT, SOCKET WRENCH: nonratcheting open-end type, 36-in sq-drive, FSN 5120-241-3143 OM %is-in opng. SOCKET, SOCKET WRENCH: 36-in sq-drive, 12 pt FSN 5120-184-8397 FSN. OPN'G AMT. QM FSN 5120-232-5711 5/16-in EXTENSION, SOCKET WRENCH: 36-in sq-drive, 1 FSN: 5120-227-6702 36-in 1 6-in nom Ig overall. FSN 5120-227-6703 7/16-in 1 FSN 5120-227-8107 OM FSN 5120-237-0977 12-in 1 EXTENSION, SOCKET WRENCH: 36-in sa-drive. FSN 5120-227-6704 1/16-in 1 9-in nom Ig overall. FSN 5120-237-4973 %-in-1 FSN 5120-232-5706 11/16-in FSN 5120-243-1693 QM FSN 5120-227-6705 34-in EXTENSION, SOCKET WRENCH: solid, 3/4-in sq-UNIVERSAL JOINT, SOCKET WRENCH: 3/8-in drive, 18 in nom Ig overall. sq-drive. FSN 5120-273-9205 QM FSN-5120-224-9215 OM



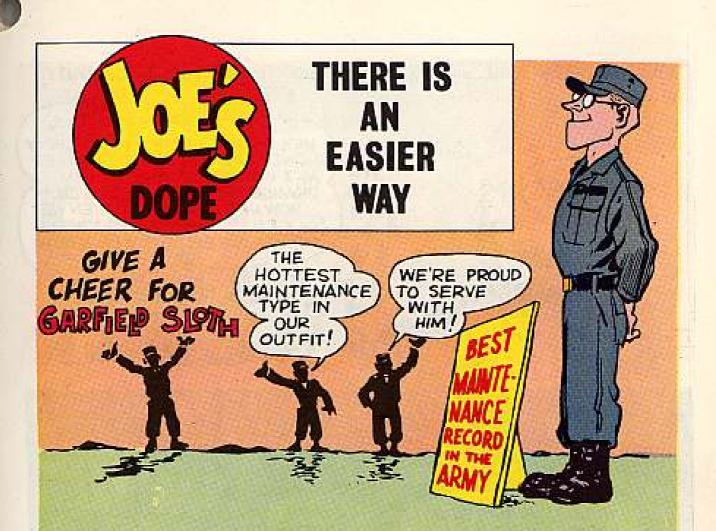


WRENCH, TORQUE: rigid frame end drive style, w/visual dial indicating for mech, %-in male sq-drive, 600 ft-lb cap, w/case.

FSN 5120-221-7983

QM

1



Before you cheer, and while you watch enviously as he basks in the glory of his maintenance achievements . . . remember that Garfield Sloth learned the hard way . . .

It probably started 'way back-but for our purposes, let's pick it up at the start of his military career . . .



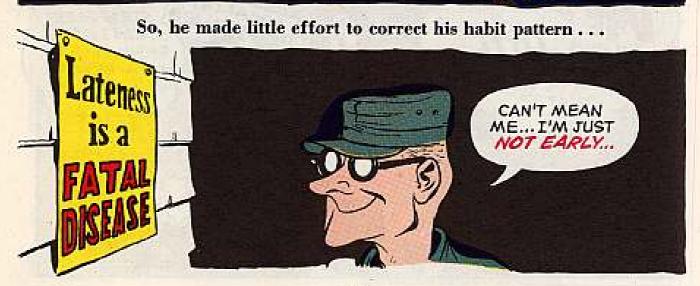
"After all," figured Sloth, as long as I get there eventually, what's the flap??"



He saw no reason why his buddies were so unreasonable about such a little thing...

We'll MISS THE GOOD CHOW AT MESS HALL 1 ONNA COUNTA HIM...

SLOTH!



Sloth's first duty station after graduation from technical school was just what he hoped for-a quiet post.

YOU'RE LATE,

THE OTHER REPLACEMENTS ARRIVED TWO HOURS AGO! SHUCKS, SARGE,...
I MISSED THE TRAIN
BY TWO MINUTES,...
NO SWEAT THO-THERE WAS ANOTHER
TRAIN ALONG IN
TWO HOURS...

NO SWEAT, HE SEZ!! NOW I GOTTA RETYPE ALL MY RECORDS... AND ASSIGNMENTS!!



It was a quiet post . . . until he was there for a while . . .

WE'RE SHORT ON REPLACEMENT PARTS AGAIN, SLOTH... NO SWEAT! I WAS
A LITTLE LATE
LAST MONTH IN MY
PAPERWORK... BUT
THEY'LL GET HERE
EVENTUALLY!

HEY, SMITTY,—
YOU GOT AN
OPENING
POWN THERE
FOR A (ER)
HOT
MAINTENANCE

TYPE?...WE (AHEM,) ARE OVER-LOADED AND...

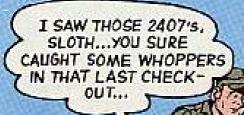


Oes Dope Sheet EVERYBODY WHO HANDLES **EQUIPMENT TAKES** YOUR LIFE

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

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

Now, understand, it is no one's intention to infer that Garfield Sloth is stupid . . . no sir, this man's a good mechanic . . . an able soldier . . .



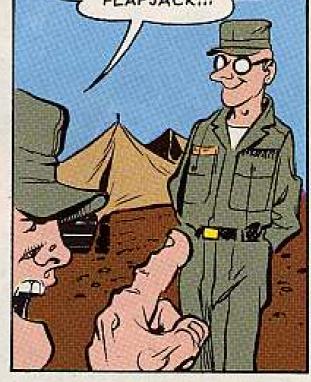
GREAT EAR FOR TUNING UP ENGINES ..

GREAT EYE FOR SPOTTING MALFUNCTIONS



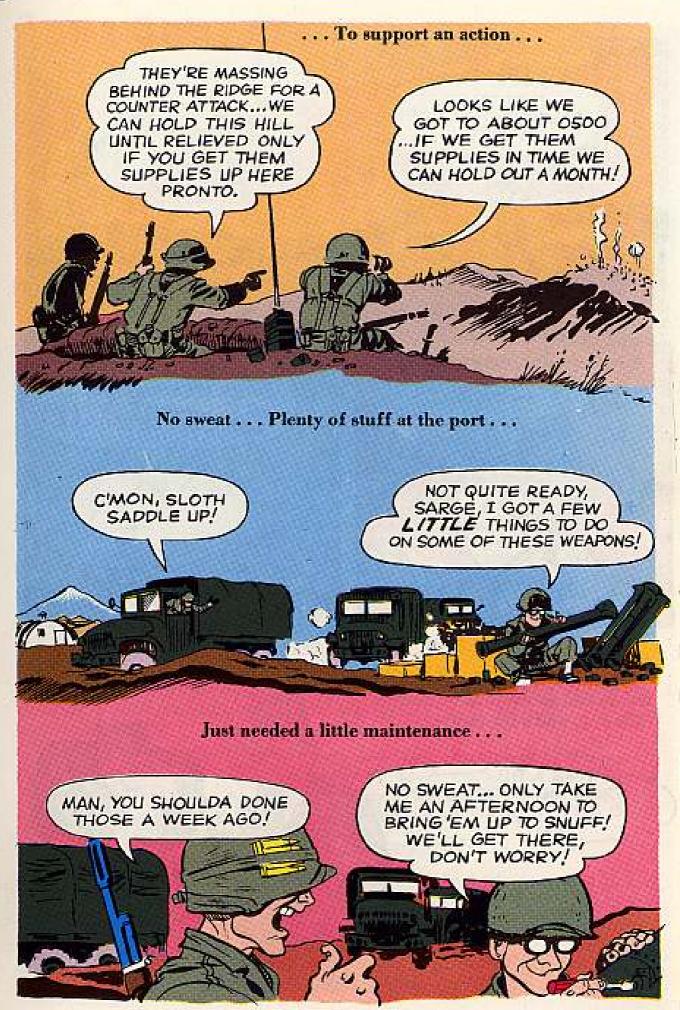


YEAH, IF YOU'D HAVE DONE THIS MAINTENANCE A WEEK AGO WE'D A MADE THE EXERCISE AT OPERATION FLAPJACK...

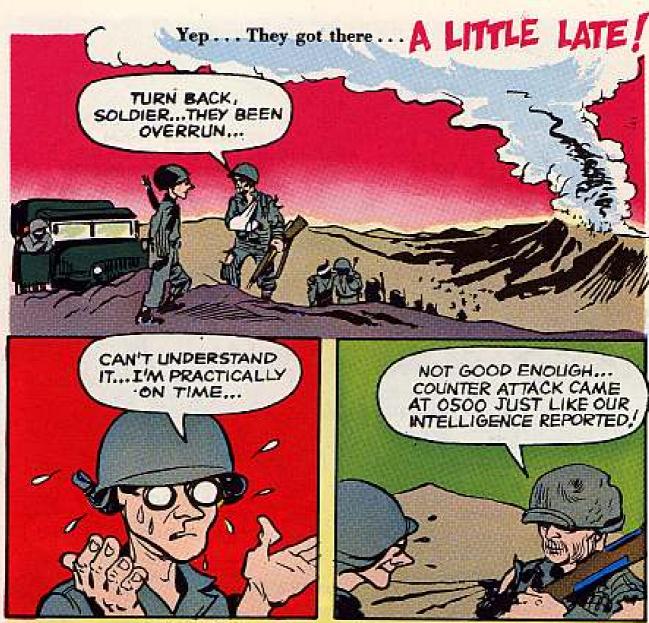


A short time ago Sloth's outfit got hot and shipped out . . .

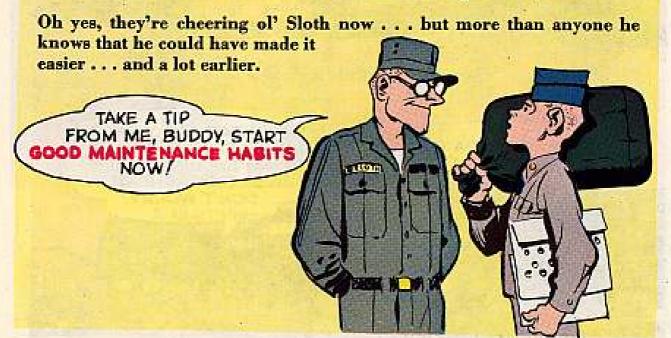








Garfield Sloth was never the same again . . .



A refected list of recent publications of Interest to Organizational Mainter nance Personnel. This is a list compiled from recourt Adjutant General's Distributton Center Bulletler. For complete details see DA Pare 310-4 with latest

TECHNICAL MANUALS

IM 5-2230-202-25P, Nov Adding Machine, Railway Tie, Nordberg Model

TM 5-2410-208-10, Nov Tractor: Full Tracked.

TM 5-3810-202-20P, Nov Corrier, Cross-Shovel

TM 5-4120-202-20P, Nov Mst, Air Cond and Heaters

TM 5-6115-211-20P, Jon LoCrosso, Gen Equip.

TM 5-6125-202-20, Nov Nike Power Gen taulp.

TM 9-1055-201-12P, Dec 3.5 In Rocket Launchers M20A1 and M20A1B1

TM 9-1190-249-20P, Dec Supply Literalure, Redisone XMSS

TM 9-1430-501-20P/1, Nov Hawk, Ground Con Equip

TM 9-1430-502-20P/1, Nov Howk, Ground Con Equip

TM 9-1430-502-20P/2, Dec Hawk, Ground Equip

TM 9-1430-503-209/2, Dec Hawk Ground Equip.

TM 9-1430-511-20P/2, Nov Howk, Graund Equip.

TM 9-1440-250-20P/6, Nov Nike-Hercules, Hercules (Imp).

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TM 9-1440-500-209/2, Dec Hows, Ground Hendling.

TM 9-1550-200-20P/2, Nov Torget Mil. TM 9-2330-235-14-24P, Der Howk,

Oper & Maint. TM 10-1670-209-20, Nov Tiedown

Alsy, Corpo, Air Delivery, TM 10-1670-230-23P, Nov Baskel De-livery, Rocker Equip XM1. TM 11-3895-202-20P, Nov Reel Units

RL-31 - 31-B - 31-C 31-D & 31-E, TM 11-5815-282-20P, Nov Teletype-

writer Set AN/FGC-70X TM 11-5820-214-20P, -35P, Dec Con-verter Sel Sideband CV-157/URR. TM 11-5820-398-20, -20P, Dec Radio

54: AN / PRC-25. TM 11-5820-500-209, Dec Rodio Set

ANTURC-53 TM 11-5841-239-24, Sep Roder Set AN/APH-11

TM 11-5841-240-15P, Dec Recorder Processor Viewer MK-662/UP.

TM 11-6115-231-20P, Nov Cen Sit. PU-404/M, PU-407/M.

TM 11-6625-447-20P, Nov Test Sel, Radio AN/ARMIGS.

TM 11-6623-466-15, Nov Oscilloscope AN/USM-151.

TM 11-6625-489-12, Nov Test Sel, Acluntor and Arming Switch AN/USM-

TM 11-6625-498-20P, Nov Test Set, Eadia Freq Power AN/USM-161. TM 11-6625-504-20P, Nov Indicator, Standing Wave Radio IM-1-66/URT.

TM 11-6665-214-10, Nov Radiocme ters 1M-93/UD, 1M-93A/UD and 1M-147/PD:

MODIFICATION WORK ORDERS MWO 9-1000-209-30/6, Nov 120MM. Recoillass Gan Veh Mt Assy XM131. MWO 9-1220-203-30/6, Nov (Bollistic Computers MIJ) (TJ1) MIJA1 (TJ1E1) Instell Input Shaft Boot. MWO 9-2300-224-20/7, Nov APC M113, Inst Sof tock on Eng Disc Contral Lever

MWO 9-2350-214-20/2, Nov Tank, M103A1, Add CAM (Heat) T153E14 and TAB to Ballistic Computer M14 (T33).

MWO 10-1670-227-20/1, Dec Pilot Chale Cargo Type.

MISCELLANEOUS

AR 245-210, Oct Pecords. DA Cir 40-15, Oct Prevention of Cold Injury.

FM 6-121, Oct Fld Arty Target Acq. LO 9-2330-251-12, Oct Trailer, %

Ton, MS69. SB 5-42, Nov Army Med Serv Adopted

SM 5-4-4610-502, -\$11, Nov Water Purification Set.

5M 10-1-6670, Nov FSC Class 6670 Scales and Balance:

TB MED 78, Nov Use of Needles and Syringes.

TB 34-9-123, Nov Infra-Red Scopes. 18 34-9-125, Nov Rope, Wire, General Purpose.

HALT BEFORE SALT!

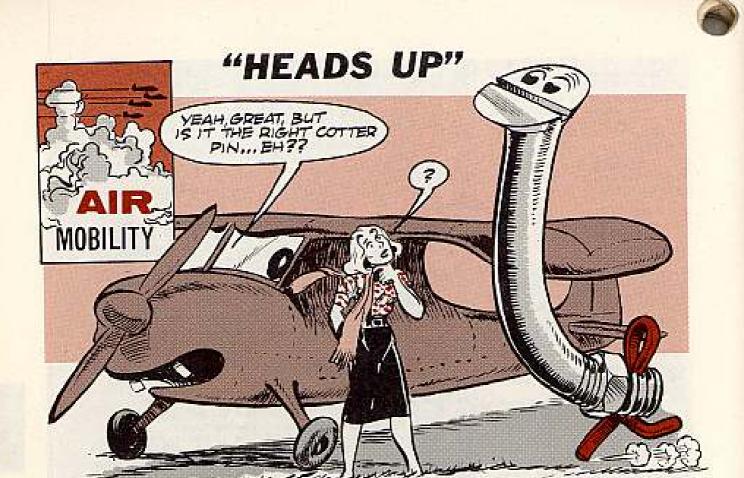
ON FINAL DRIVE COVERS BE SURE TO FOLLOW MWO 9-2300-224-20/10 (27 NOV62) FOR HOW TO PROTECT THEM.

Before you do any salt-water fording with your M113 PC, you want to call a halt and coat its unpainted magnesium-alloy components with corrosion preventive compound (FSN 8030-526-1605). You'll need to coat the differential, transfer case and cooling fan housing. TB 9-2300-224-20/1 (30 Oct 62) tells you how and when, and there are masking precautions you need to watch closely.

You've gotta clean the components thoroughly first with dry cleaning solvent (FSN 6850-336-8170). Be careful to brush the corrosion preventive compound on lightly. (The TB says not over a 0.002-in thick coating, so you'll have to figure some sort of eyeball judgment for the deal.)

THE NEW PB PAGE

DA Form 14-110, Organization (Installation) Property Record, dated 1 Sept 57, went out the window as of 1 March 63. The new form goes by the same name and number, but it's dated 1 March 62. You're not to change your property record over to the new form in one full swoop, tho . . . the new one'll be used as you add new pages to your property book . . . or, as you get the word to swap forms from your supply support outfit.



You see it in photos! You see it in drawings!

You can even read about it in Section VI, Chapter 2 of your TM 55-405-2 (30 Aug 62), "Aircraft Hardware and Materials".

What is it? Why, it's the general shop practice of putting in a pin or bolt in the head up . . . head forward . . . or head in direction of rotation position.

Take one of those flathcad (clevis) bolts—the kind you find along a bird's control cable rigging. This baby is held by a nut and cotter pin.

But is it the right pin? And is it put in the way it should be? That's the rub.

For example, suppose a careless type comes up with a cotter pin that wasn't long enough. And, to top it off, he puts it in the wrong way with the head at the bottom!

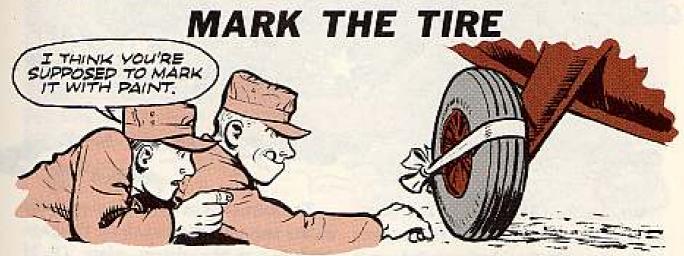
For sure he isn't going to get much of a bend on the cotter pin end that's bent around the clevis bolt nut. Add a little vibration, which can straighten



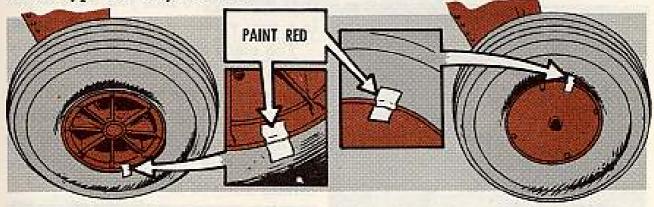
this pin, and she'll drop out . . . followed by the nut which is now free to work loose. Needless to say, if a control cable loses a nut in flight the resultant "crunch" would likely be heard clear back to St. Louis.

'Course a missing pin wouldn't happen to you. Not with the -20P manual handy to give you the right cotter pin so you can bend the end proper-like. TM 55-405-3 (10 May 62), "Maintenance of Aircraft Systems", has some poop on bending the pin... Chapter 2, Section XI, page 59. And with you puttin' the pin in head up—head facing forward—or head in direction of rotation, it won't fall out, even if the end gets broken off.

Just one point on this heads up for hardware business, though. There are exceptions on a bird because of special clearances, design, and such. But no sweat in these cases. They're called out right in the text of your maintenance manual, which, of course, rules for a specific bird.



Can't read a slippin' tire without a guide. That's why you want to redindex the sidewall with the wheel rim and dust cover next time you change a tube-type tire on your bird.



If your bird doesn't have a dust cover—they have a unique way of losing themselves—you might miss spotting a crooked valve stem on your walkaround. And with a dust cover on the wheel, you'd need X-ray vision to spot a damaged valve stem.

But if you miss seeing a big, juicy 1 x 2-in red index mark (one inch long on the tire sidewall and one inch long on the wheel rim or dust cover), you've got eye doctor problems.

If you're interested, the authority is paragraph 124e, page 79, Chapter 3 of TM 55-405-3 (10 May 62) "Maintenance of Aircraft Systems" . . . and the paint is red gloss enamel, Spec MIL-E-7729. A one-pint can should be in your hangar supply room under FSN 8010-821-1484—natch.

STOP THE SPUTTER



When a Bird Dog's (0-1) fuel selector valve handle is turned from a low fuel tank to a full tank the engine needs fuel pronto, without any sputtering around.



She'll get fuel every time as long as the valve is working right. But, like any part that gets a lot of use, the valve comes in for its share of wear as the hours are piled up on the bird.

That's why you make with the feeler gage every third periodic, like TM 55-1510-202-20 says in Chapter 3, on page 4-2 of Change 2 (9 Mar 62).

To make the check you just pull out on the valve handle and shove the gage in between the detent plate (P/N 0616116) and the face of the valve handle (P/N 0616118). If the clearance is over .070 inch you want to put in a new valve—and for good reason.

Too much clearance could have you moving the valve handle to another tank mark on the valve face, with no results. Then you'd have to go fishing for the full tank position until you felt the valve lock in place. No time for fishing allowed here.



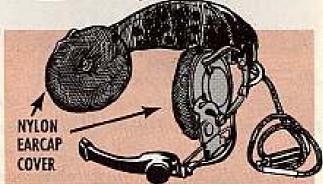
NO EARRINGS NOW



If you birdmen have been having a little trouble keeping the padded cushions of your H-101 ()/U or H-75 ()/AIC headsets clean and dry, no more sweat.

Well, maybe a little sweat . . . but no more sweat marks around the ears.

What you need is a coupla nylon earcap covers, FSN 5965-564-1079 (Sig). Some of your H-101's may al-



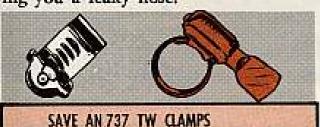
ready have 'em—or been issued with 'em—but they're also being authorized for the H-75's.

"SCRAM, DRIP"

Hear about the little drip who almost started a full-fledged flood when he escaped from a bird hose?

He was joined by other drips, 'cause no matter how many times the AN 737 TW retaining clamps were tightened, a few more drops managed to squeeze out of the system.

You see, these AN 737 TW clamps can only be tightened so much—after which they can become stripped, giving you a leaky hose.



SAVE AN 737 TW CLAMPS FOR AIR, VACUUM AND VENT LINES But just as suddenly as the drips started, they were stopped in their tracks, by a sharp-eyed mech who read TWX TCMAC-ED 07-02059.



STOP DRIP WITH AN 737 TM OR AN 737 RM CLAMP (USED ON FLUID LINES)

He stopped 'em with one of those reliable AN 737 TM or AN 737 RM clamps you use on fluid lines. And he saved the AN 737 TW clamps for use on air, vacuum, and vent lines—even on ground support equipment.

What happened to that hose should happen to all hoses that carry fluid . . . no drip!



Dear Windy Windsock,

Para 5-11 in TM 55-1520-208-20 (Oct 61) says be sure all tools used on the UH-1B engine are chrome plated, since cadmium plating can contaminate the oil system with chips and wear down magnesium parts.

What's the FSN for this recommended tool kit for UH-1 type helicopters and in what SM is it listed?

Dear Sergeant E. J. C.,

Might appear to be a crosswind condition the way the TM reads—but that's because you haven't seen the new TM 55-1520-211-20. The paragraph number has been changed to 4-17-F and now says:

"Be sure tools used on engine are not cadmium plated." SFC E. J. C.

The TM no longer says all tools have to be chrome plated. The reason for the change is simple . . . there ain't none! And there's no such chrome tool set on the way, either!

So you're officially authorized to use the unplated tools you do have. That's all she wrote, Sarge.

Windy Windsock

OP CHECK REPUACEMENTS



You can't take anything for granted around aircraft—not even new or replacement parts. Give any replacement part the ol' operational check before you sign off the job. After all, there have been cases of bum parts getting into the system.

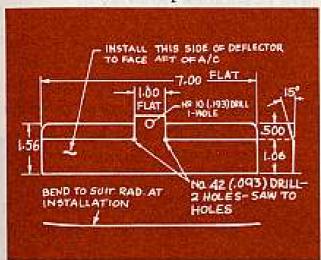


Dear Editor,

Here's a nickel's worth of aluminum that'll keep Bird Dog (O-1) windshields from cracking and crazing.

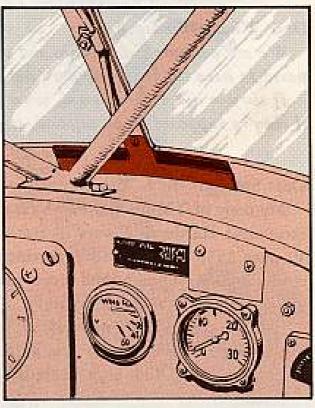
The plate will deflect the defroster heat away from the windshield just enough to keep the windshield from being cracked by the cold air blast outside and the hot air blast inside. The plate won't interfere with the defroster action, either.

You make the plate from 0.035 inch 24S-T 3 aluminum sheet to these dimensions and finish up with a coat of non-reflective black paint.



Then you just install the plate using the existing nut and bolt at the bottom center of your windshield

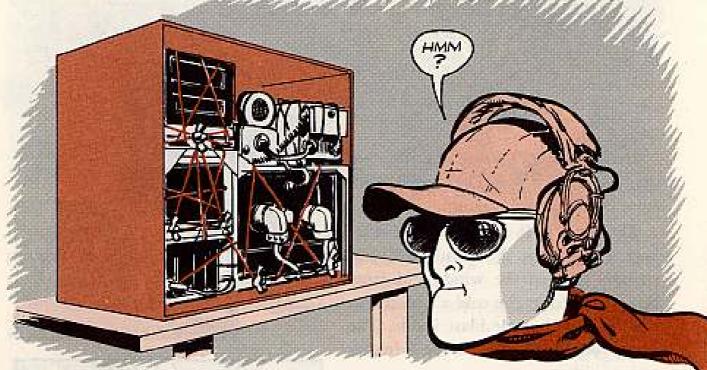




SFC Karl R. Herdenstein, Jr 8th Army, Korea

(Ed Note—Good deal for use in cold climates. Bytheway, a similar fix is now in your UR Digest, TB AVN 23-5-1 (14 May 62), project 61-723(0104), for the Seminole (U-8).

SAFETY IT



Dear Windy Windsock,

We are not sure if the radio and control units in our Army aircraft are supposed to have the snap fasteners and hold-down bolts or screws safetied or not.

If they're not to be safetied, what's the reason for the safety wire holes? And if they're supposed to be safetied, what's the publication requiring it?

SP5 R. L. T.

Dear Specialist R. L. T.,

Structural Hardware," says in section V, para 155, that "all items pertinent to electronic equipment and accessories are safety wired with lock wire. . . ."

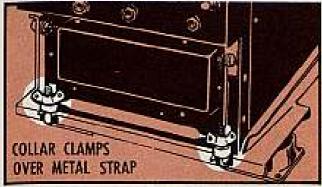
Being a general type manual, the -3 can be used as authority unless a specific equipment TM says something different.

The way it stands now, most of the aircraft TM 55's don't have any instructions on lockwiring radio equipment. But some of the TM 11's on the individual radio and navigation sets do include these instructions. So, in

My copy of TM 55-405-3, "Aircraft these cases, the specific TM 11 is the authority. And since none of the pubs tell you not to lockwire radio equipment, TM 55-405-3 is the across-theboard authority in all other cases.

> Besides, the fact that you've got drilled holes ready and waiting for some safety wire is a hint that's what was intended by the Army, even though a lot of TM writers thought the idea was so obvious they didn't bother to write the requirement down in black and white.

But whether or not the holes are there-or whether a pub says so in writing—the final authority to safety your electronic equipment is your maintenance officer.



One of the reasons to make him decide in favor of lockwiring that equipment is the known fact that every unit mounted in an aircraft is subject to shocks and vibrations in flight. This makes it possible for any type of fastener to back off and fall out—or cock at an angle of stress causing it to shear.

Another reason is that loose mountings can put a strain on cables and their connections, leading to bent connector pins—or pulling cables into positions where they chaff against the component or some part of the aircraft structure.

Windy Windsock



Safety wire, annealed corrosion resistant, steel, spool;

0.032 in.

FSN 9505-554-1421

0.047 in.

equipment in aircraft:

FSN 9505-242-7527

0.063 in.

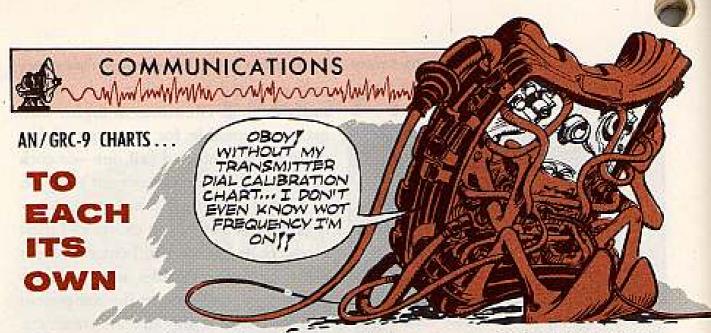
FSN 9505-554-1420

Wire, electrical: copper, bare, No. 25 AWG (for use as breakaway wire) one pound; 0.020 in. FSN 6145-500-0986

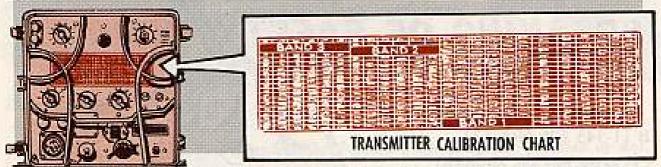
Wire, electrical: copper, bare, (for use as breakaway wire) one pound;

0.020 in.

FSN 6145-129-9314



You can tack a "Going Out of Business" sign on your AN/GRC-9 radio set the minute you lift its transmitter dial calibration chart just to give the set a presentable face.



That chart's as vital to the radio set as the guts that make it run. Without it you have about as much chance of getting the right transmitting frequency as a rabbit has of killing a hawk.

There're no substitutes for the chart designed for your set, so lay off the moonlight requisitioning. An inspector needs only one look to see that the serial number on the chart doesn't match that on the set. Besides, he might ask you to operate on a certain frequency.

The serial number business is a good way for you to check that you have the right chart. And for your good and the good of the set, don't take the chart out unless you're going to replace it the right way. Otherwise, you'll deadline the set almost every time.

Best deal is that as soon as your chart gets torn or discolored, turn it in to higher echelon so that the frequency calibration numbers can be copied onto a new chart. If you can't read the numbers, don't operate on guesswork. Turn it in to higher echelon so the set can be properly recalibrated and charted.

No matter what kind of shape the chart's in don't throw it away until higher echelon can get a look at it.

Do that and you won't have to worry about the inspecting officer when he comes to check the chart's presence, readability and serial number. More important, you'll be able to transmit when you have to.

SHIFTY FREQUENCIES

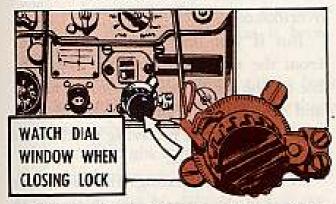
SOB, SOB!

AT LEAST YOU'RE ON
A FREQUENCY! I CAN'T
EVEN STAY ON ANY
FREQUENCY... I'M DRIFTING
ALONG WITH THE TUMBLIN'
TUMBLE YOU-KNOW-WOTS!!

Thinking about trading your AN/ GRC-9 radio set because she changes frequency without any help from you?

You say she won't hold the frequency you selected even when you locked it?

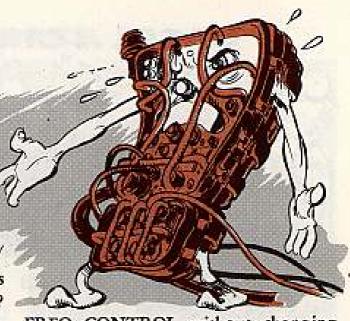
Relax, friend, cause that's the nature of the beast when you're working with the FREQ CONTROL knob—on the transmitter section.



Most of the time a quirk of the switch lock on the knob is causin' your trouble—not you. Fact is you might get the same deal from the TUNING control knob on the receiver section.



The locks are alike, and it's hard to close 'em without turning the knobs. And it's mighty hard to lock the



FREQ CONTROL without changing the frequency setting. 'Bout the only thing you can do is be extra careful with the lock and watch the dial window for any change.

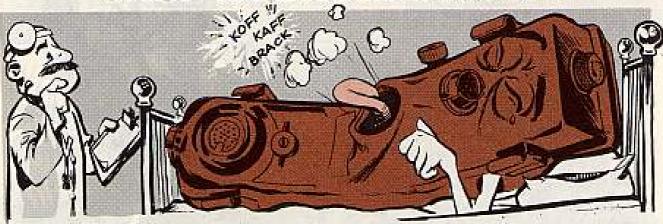
Otherwise, your first clue on a frequency change might come when you pick up a soap opera instead of your net control station.



There's another frequency quirk on the Angry 9 which might get you wondering about the condition of the set, too. Namely, the frequency shift fade when you're using CW.

Again, it's the nature of the beast and nothing to worry about. All she needs is a little patience and she'll put out for you.

GASP...CHOKE...SOB



Imagine for a minute how you'd feel if you were shoved into a small, hot room without air. Whew!

Now take another minute and put yourself in the place of the guts of your AN/PRC-6 radio set. There you're wrapped up tight in the hot little case—without air to breathe or a place to allow the heat to escape. Double whew!!

All right. Now open the door to the room to let air circulate, or open the AIR VALVE ½-turn counterclockwise on the PERK-6. Everything's 1,000



per cent better, right?

Now that that little lesson in horrors and how to avoid them is over, let's talk about the AIR VALVE. Even though there's a caution decal on the radio case, that little valve is tucked down away from everything and is mighty easy to overlook. Fact is, sometimes it's not even on the case it's so overlooked.

But if you forget to open it, heat from the tubes and battery will bubble up the moisture covers over the ear and mouth pieces, among other things. Transmitting and receiving get difficult—if not impossible.

If the valve's missing, dirt and water can get in the set real easy. No need to mention the damage that stuff can do.

Best way to avoid it is to form a real good habit. Each time you pick up your PERK-6 to operate it, give that valve a



flick first thing. When you're through, turn it off.

Make it a reflex action and you'll be on the air a lot longer.

If your set has no valve, you'd better have MWO 11-5820-290-20/1 applied.

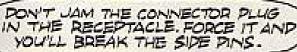
EASY DOES IT

"Quick Disconnect Receptacle" is the way the TM describes one end of Switchbox SA-142 () in Chest Set Group AN/GSA-6 . . . and so be it.

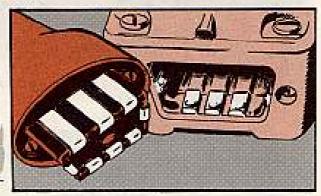
But hold it a second when you're hittin' the other end of the cycle. When makin' the connection, don't jam the

connector plug in the receptacle. Force it and you'll break the side pins . . . which means you're minus one chest set for your Angry 3-8 radios.

Take a second, line up the plug and receptacle, and she'll slip in nice 'n easy.







ROLL CALL

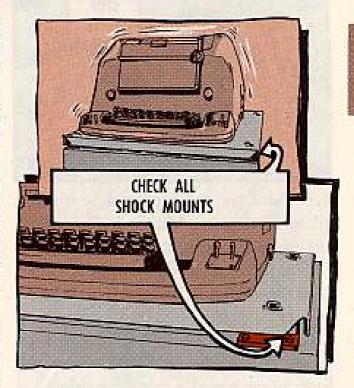
Been having trouble with the teletype equipment of your radio teletypewriter set AN/VRC-29? Has it been slipping out of adjustment more often than it should?

If so, maybe you'd better take a look-see under the teletypewriter mounting plates. While you're rolling your eyeballs there, count the shock mounts.

Sometimes the sets come through without all eight mounts. Fewer than that could give you troubles . . . especially after you've driven your threequarter-tonner over rough ground.

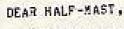
The mounts are not standard supply items so your support unit will have to get them directly from the manufacturer. Have them order Robinson Technical Parts Inc. part number 1202-3A, or equal. (The address is Vibra-Shock Division Robinson Technical Parts Inc., Teterboro Air Terminal, Teterboro, New Jersey.)

The story of how to install 'em is told—with illustrations—in Installation Instructions, FSN 7610-633-9747, for radio set AN/VRC-29.



(a)

NOT FOR STOPPING



HOW ABOUT SETTLING A LITTLE ARGUMENT FOR US ON THESE TELETYPEWRITERS.

SOME PEOPLE SAY THE U-SHAPED "STOP"

PLATE BENEATH THE RIBBON IS SUPPOSED TO .

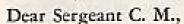
BE SHIMMED SO THAT IT HELPS STOP THE

KEYS WHEN THEYRE PRINTING. OTHERS SAY

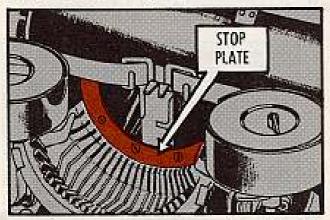
THE TYPE BARS SHOULD NOT TOUCH THE

PLATE AT ANY TIME. WHAT GIVES

SFC C. n.



With one exception, the stop plate on all models of teletypewriters is really not a "stop" plate at all. The



type bars are not supposed to hit this plate. If they are hitting it, have your maintenance support correct it for you.

The only exception is on the TT-4A/TG. On this model the stop plate has a . . . er . . . ahem . . . slight protrusion which acts as a stop for certain type bars. This is the only case where the stop plate actually stops anything.



As a matter of fact, all models except the TT-4A/TG could get along very well without that plate at all. Which is mighty convenient because there're none in the supply system for replacements.

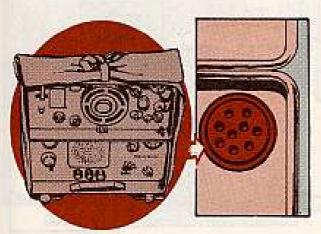
Hall-Mast



Your AN/GRR-5 radio receiving set works easy on AC or DC juice, but only when you use the right cable for the right juice. Otherwise . . . PSFT!!! Real gone fuse.

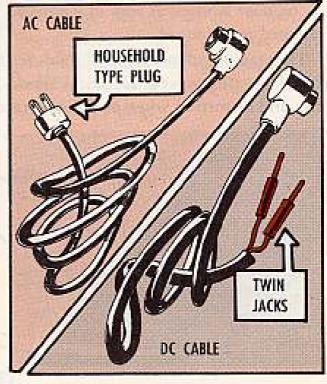
F'rinstance — never, never rig the set's DC cable with a standard male plug—so's you can use said cable with AC current. It'll pop a fuse every time — and put your set out of business every time.

Best thing to do when your AC cable (power cable assembly CX1358/U) gets lost or otherwise messed up is order a new one. Snipping those lugs off a DC cable to give it a try at AC won't work, even tho the connectors for the AC and DC cables fit the same POWER INPUT receptacle (J103) of the PP-308/URR power supply.



The reason the fuse blows so fast and regular is that the connector pins are wired for either DC or AC... not both. And as anybody knows, you'd have a hard time mistaking one cable for the other, since the DC's a lot thicker.

Change 1 (Aug 54) to TM 11-295 (Aug 52) calls for power cable assembly CX1359A/U for the GRR-5's with serial numbers from 1 thru 4928 of Order No. 15166-Phila-52-01. Sets with other serial numbers get the CX 1359/U cables.





Dear Private J. M. M.,

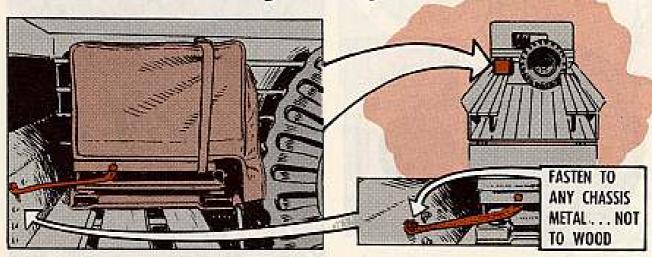
Electrical detonator caps used in blasting operations can be set off by RF (radio-frequency) energy—the kind of energy that comes from radio transmitters. So it makes good sense to turn off the transmitters when you're in an area where they're being used.

Half-Mast

GROUND IT RIGHT

There's one little item you should pay heed to when you've got a radio set on or near a wooden seat in a vehicle. Make sure the radio's ground is not fastened to the wood.

The radio ground strap should be fastened to the vehicle's metal body—that'll help to prevent electrical shock, static, low volume, intermittent operation and distortion when sending or receiving.



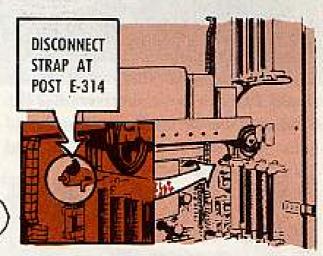
OFF FOR SSB - ON FOR CW

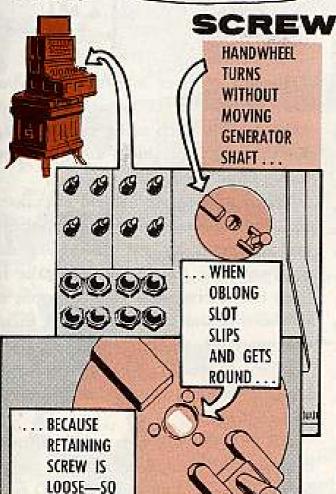


The chances are your AN/FRT-22 or -26 transmitting set has been modified by MWO 11-5800-200-30/3 (14 Nov 60). That's the one that provided for single sideband operations and did away with the need for the RF Amplifier AM-1366/G.

Well, there's a little something you've got to do before you operate on SSB. You disconnect the strap at terminal post E-314 on the power supply assembly PP-1088/FRT-26. This will keep the resistors in the filter network from shorting out.







KEEP SCREW

TIGHT

It can't be loose if you wanna' have juice.

Nutshell fashion, that sums up the handwheel retaining screw on the G-42/PT Hand Ringing Generator Set.

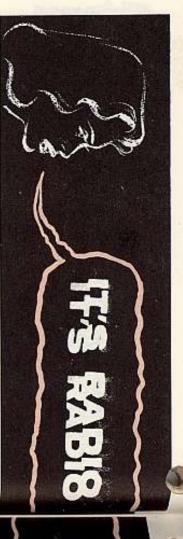
If you wanna' have your TA-43/PT Telephone Set or SB-86/P Switch-board workin' up to par, you gotta' have that handwheel screw tight.

Ol' G-42 won't zing if ya' don't screw that thing.

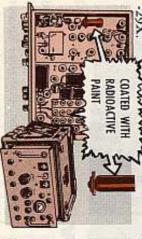
When the screw gets loose that oblong slot in the center of the handwheel is gonna' slip, and get round . . . and the handwheel starts turning without moving the generator shaft.

Result: Your set heads back to the shop for a replacement hand-crank assembly . . . and you're out of business.

All because of a little ol' loose screw....



That's the latest word on the Tube Shield E325 in radio receivers R-220/ URR and R-644/URR, components of radio receiving sets AN/URR-29 and 29X.



"Handle with extreme care" is the atchword!

The shield, coated with radioactive paint, got through without an appropriate warning. There is no serious hazard when it's left mounted in the receiver, but caution is the order of the day when the set is being serviced.

During servicing, the painted shield and the type OB2 tube should be replaced with an ordinary shield, FSN 5960-295-7652, and improved tube, type OB2WA, FSN 5960-262-3763. The OB2WA also is radioactive but not dangerous when handled like TB-ORD 648 and TB SIG 225 tell you to.

Be sure to use rubber gloves when (27 Jul 56) and p taking out the tube and shield. After of TB SIG 225 (6 handling the tube and shield the gloves you break a tube.

should be checked with an AN/PDR-27 radiac set for contamination. If the gloves are contaminated they should be put in a container with the tube and shield for disposal.



If your receiver is located so you don't sit close to the lower right-hand side, you can keep using the set. But don't take off the shield until you get orders from your CO.

When the tube and shield are taken out, don't get careless and leave them just anywhere. Be real careful and do not break the tube when you take it from the receiver—or when you put it in the disposal container. Store them in a marked container with as little handling as possible. Safeguard the container to prevent unauthorized removal or handling.

AR 755-380 will give you details on disposing of them. Get to know paras 5 and 7, pages 2 to 5 of TB ORD 648 (27 Jul 56) and para 5, pages 1 and 2 of TB SIG 225 (6 Apr 62) just in case

from radio receivers R-220/URR and/or R-644/URR." "Tubes, FSN 5960-166-7648, and Tube Shields, FSN 5960-280-4711, removed Another important point-identify the removed shields and tubes like so: List the quantity and, depending on your location, report them to-



Chemical will advise you what to do after that.

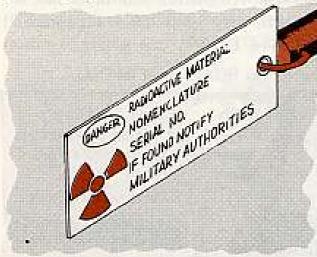
The shield (E325) covers the OB2 voltage regulator tube (V323), illustrated in Fig 15, TM 11-882.



LOOP WIRE THROUGH HOLE IN INERT END OF ROD.

GOT ANY ... MX-1083 OR MX-1083B (RADIOACTIVE TEST SAMPLES)

All MX-1083 and MX-1083B radioactive test samples which have the metal identification tags need a quick check. Some of 'em have been losing their ID tags 'cause the tag's D-rings weren't put on proper-like.



If you have any of these test samples with loose or faulty D-rings, best report them to your Chemical support outfit . . . their D-rings are to be replaced with home-made wire loops.

A piece of brass or copper wire, the same gauge as the original D-rings, and long enough to make a loop about 3/4 inch in diameter, will do the trick. One end of the wire will go through the test sample and the tag, and then the

wire ends will either be soldered or twisted together.

USE BRASS OR

COPPER WIRE,

If the wire ends are twisted together, all excess wire has to be clipped off and the twisted end should be bent parallel with the loop.

NOTE: If you have any of these test samples which have lost their metal identification tags, be sure to do like it says in TB Cml 54 (Mar 60) and let your Chemical officer know about 'em so he can get rid of 'em through proper radioactive waste disposal procedures.

Later production MX-1083 and MX-1083B won't come with identification tags... their identification will be either stamped or engraved right on the inert end of the rod.

WHAT GOES WHERE?

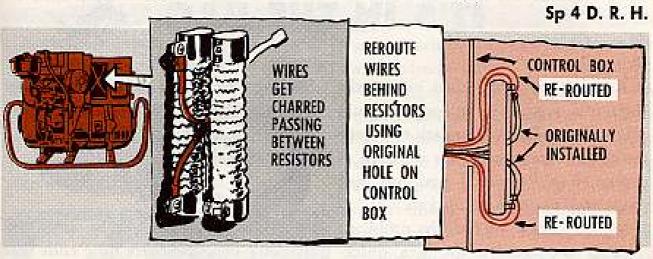
There are gas-particulate filter units and then there are gas-particulate filter units. Some are designed for hospitals, some are for shelter, and then you have the ones that go into combat vehicles.

One filter unit is not designed to fit all combat vehicles. So, before you ask for one, better be sure it's the right one.



Dear Sgt Half-Mast,

We have one of those new Leland Model LOE-660 2 KW 12-volt DC generators, and it works fine except for one problem. The lead wires from the resistors into the control box get charred where they pass between the resistors. Would we be open for a gig if we re-route those lead wires away from the heat?



Dear Specialist D. R. H.,

As long as you don't modify the equipment in some way like making more holes in the control box, nobody can gig you for re-routing those lead wires.

Looking at that Leland generator from this side of the street, it looks as though the coolest route for those lead wires would be (1) up, back, and down from the top connections and (2) down, back and up from the bottom connections.

This way you can still pass all four leads into the control box through the original hole. Half-Mast



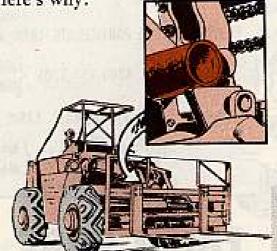
NIX ON RIDIN' HIGH!

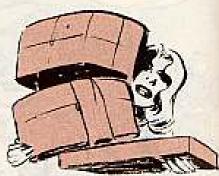
Hear tell some guys think it's best to rest the stiff leg mounting points on the boom assembly when they're toting big loads with their MR-100 rough terrain forklift. They think this takes the strain off the hydraulic system.

But not good a-tall! Here's why:

1. The jarring of the load'll damage the mounting points so bad you'll have trouble assembling the stiff legs when you go to change over to crane operation.

2. If you lose the load, it'll fall that much further.





 The load could block your vision—depending on what you're carrying.

So, always play this load-carrying bit by the book. Never lift the forks more'n necessary . . . say, 12 to 18 inches off the ground.

And let the accumulator do its job of taking the shock off'n the hydraulic system, like it says in Para 86 of TM 10-3930-223-20 (Feb 61).

IT'S IN THE BAG



Dear Editor,

Keeping sand and dust out of the hydraulic system of a rough terrain MHE when you have to park the crane attachment practically on a beach is pretty rough—even if you use dust plugs like you're supposed to.

So, here's how we lick the problem:

After we remove the five quickdisconnect couplers, we dip the hose ends and dust covers in a can of clean hydraulic oil to rinse off the sand and dust. Then we get rid of this oil.

Next, we wipe all five good and dry with a clean rag and install the dust plugs, like it says in Para 15r of TM 10-3930-218-10 (Jun 61).

Lastly, to make the cheese more

binding, we put small plastic bags



(the kind you can get in any food market) over the three hose ends that stay with the crane attachment and seal 'em with masking tape.

> SP4 J. D. Pepin Fort Hancock, N. J.

(ED NOTE: Good, I'm sure other outfits operating in beach, desert or dustblown areas will latch onto this idea quick.)



BEFORE ANYBODY
BREAKS OUT IN A SWEAT
REPLACING MATCHED V-BELTS
ON COMPRESSORS, OR OTHER
BELT-DRIVEN EQUIPMENT,
IT'S ALWAYS SMART TO
MAKE SURE YOUR "MATCHED"
SET 15 THE REAL MCCOV.
FIRST, YOU WANT ONLY ONE
MAKE, OR BRAND NAME IN
A SET.

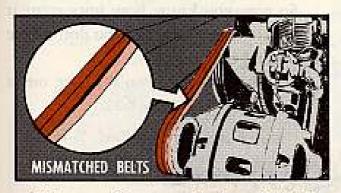
49 49 49 49 49 49 49 49 49

Each manufacturer has his own way of making the V-belt. Mixing different brands—even if there's only a hair-line of difference—is like borrowing trouble.

NEXT, YOU WANT ONLY ONE STOCK NUMBER IN A SETT

A manufacturer may put out two V-belts that look alike—but sometimes they're built for different purposes. Check the numbers on the belts on your rig against the numbers in the -P manual and on the new belts to make sure they're right. Never accept substitutes, and always replace the complete set.

Finally, you want only one "matching number" in a set.



The manufacturer checks each V-belt for finished length. You'll find the matching number—50 or maybe 49 or



GOT A

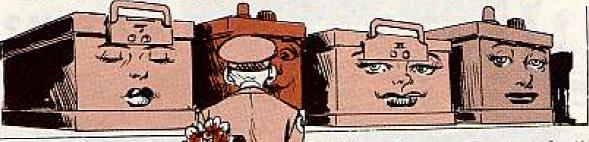
51, f'rinstance—stamped on the belt.
And your V-belt set should all wear the same matching number and come from the same manufacturer.

The spread between numbers may be only 1/32-in for one manufacturer, or as much as ½s-in for another. That's why your V-belts should all be of the same matching number and from the same manufacturer.

In longer sets, 8 feet and over, you could get satisfactory performance from a combination of almost-matching numbers—like 50 and 51, or 48 and 49. But never use belts with different numbers in a set unless they come from the same manufacturer, and even then you'd put 'em together in a set only in an emergency.

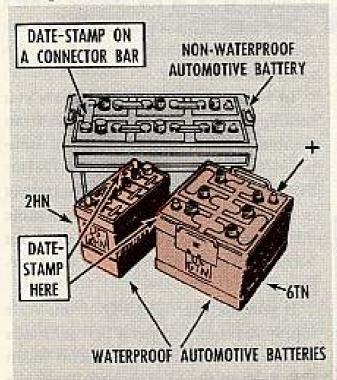
If you use the right FSN from your supply manual, but get a belt set that's not matched or doesn't fit, send in an EIR. Include the FSN of the belt set, the number and date of the supply pub, the equipment the set was ordered for, and details on what's wrong with the belts.

YOUR BATTERY'S DATE LINE



Not one of those beautiful dolls you may have in the palm of your hand, but the dating is done onto the lead-acid type batteries before they're put into actual use in your Army equipment.

In the case of a dry-charged battery, the minute you give the battery life by adding electrolyte, you need to datestamp it. Stands to reason that unless



you're going to put it into actual use, it'd be kept in a dry-charged state . . . right on the shelf.

Wanta know what started all this date-stamping business?

The poop's all spelled out in TM9-6140-200-15 (Jul 58), with Change 1, (15 Jan 62) adding its two-cents' worth. Just flip the pages over to para 34D, on page 36.

Mebbee it's SOP to your unit right now for you issuers (or installers) to date 'em when they go out. Makes for a lotta sense 'cause it's the only way for your CO to possibly tell if the battery lived a normal life . . . or not.

Any time a battery's been handled gently, kept clean, and the electrolyte level's been kept above the plates, and yet it goes to pot real soon (say 18 months), then it's time to get an EIR (DA Form 2407) on its way.

Once the EIR reaches the design guys

—with the date-stamp facts—it really
means something. It may even be the
makings of a new and better battery.

So now you know how important it is to date-stamp 'cm, but you don't have the metal die stamps.

OK, here's what you'll order outta FSC C6-4-SL (31 May 62):

Die Set Metal Stamping, Hand; 1/4-in size, 0-8 digits (reverse the 6 digit for the 9), FSN 5110-289-0003.

To order the letter "S" just cite . . . Die Set, Metal Stamping, Hand; 1/4-in size, FSN 5110-289-0007. By having a date-stamp on your batteries, it's easier to establish an average life expectancy. Once you know this, it can become a good guide on whether a battery should be put on a line to be charged—or not. If it doesn't read good and the age is against it, it's useless to waste the time and energy to try charging it. Just one more thought. If you feel an EIR is justified, be sure to jot down all the info you can that may give the designers a good clue on why the battery poops out so soon.

Remember, your battery is the heart of your equipment, and the tender loving care you give her will make it stay young longer.



Dear Half-Mast,

Our M43 and M43B1 ¾-ton ambulance trucks have litters FSN 6530-783-8010 (Medic) but the canvas on some of the litters is in had shape. Can we get just the canvas for the litter as a separate item?

We tried to repair one litter with bulk tent canvas but the canvas was too beavy and besides it stunk so bad from the fungus repellent that the smell alone would probably kill the patient so we had to give up on that.

Can you give us the FSN so we can order the canvas for the litters as a separate item?

S Sgt D. T.







You know they're a part of the M23 colorimetric carbon monoxide detector kit, FSN 6665-618-1482, or colorimetric carbon monoxide detector kit, FSN 6665-283-0654, or maybe the one that's used on the M3 mobile chemical laboratory—the colorimetric carbon monoxide detector kit, FSN 6665-368-6789.

You have to get rid of the C-3 carbon monoxide indicating tubes in these kits in two years. That's two years from date of manufacture and not two years from the date they're issued to you.

The latest mil spec on the tubes says the packages and outside shipping containers will have the expiration date on them. Just in case you might have some of the tubes that were manufactured under the old mil spec, then you go by the date of manufacture.



In case you have indicating tubes that are more than two years old, turn 'em in and get newer ones that still have some of their two-year life left.

E THE



When it's time to test brush tension on your Nike tac power generators and converters-where would you find a proper tension gage?

On page 25 of your TM 5-1450-201-20P (Sep 61), you'll find a gage of the proper description. If it's already on hand, there's no sweat.

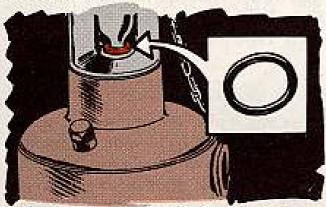
But hear this-you have to requisition it. It's not an initial-issue item.

The FSN is now 6635-449-3750. And it's QM, so your requisition should be submitted to your support who'll bring it down from Columbus General Depot, Columbus, Ohio.



Your new M11 portable decon's easy to operate once you get the hang of it.

There's one thing to keep in mind and that is to lift the handle slowly. Why? So you won't pop an O-ring. You see, there's a little O-ring that fits around the neck of the cartridge. It's to stop any leaks.



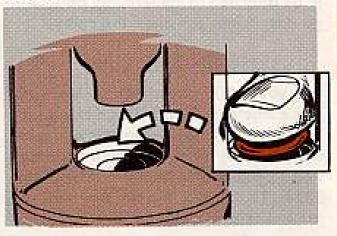
Naturally, if that O-ring isn't there, then the bottle's going to leak.

So-easy does it when you lift the handle.





But, if that O-ring does pop out, put it back in place with your finger. Don't use anything sharp on it or you'll ruin it.





ONE AND THE SAME

You say you're straining the old eyeballs looking for a pub on the Jeta, 10 KW, Model MG-1018 gas generator, FSN 6115-768-5299! Put away that eyedropper and latch on to the TM 5-6115-204-series pubs. Although they're listed for the John Reiner model you also use them for the Jeta job. Revised "P" manuals are in process and should show that the only difference between the two is the name plate.

STOP THOSE SHORTS

You been having Honest John rocket firing failures because of firing cable shorts between the launcher beam receptacle panel housing and the cover? It's been happening on the M289, M386 and M33 launchers. The reason: The firing cable insulation is stripped too far or the insulation is battered when the panel cover is closed. The answer: Strip the insulation just enough for the cable to be attached to the terminal posts. And go easy when you close the cover.

RING THIS BULL

If your 4000-pound Minnie-Mo ware-house tractor's like a bull in a china shop 'cause it can be started up while in gear, shackle it by using the switch kit provided by URGENT MWO 10-3930-407-20/1 (11 Jul 62). The kit rigs it so you can only start it in neutral.

USE OHA

Hold the phone. The latest scoop is that you use OHA (Mil-H-5606) instead of OHC (Mil-H-6083) in the hydraulic system of your Hawk loader. OHA is the same stuff that's used in the missile . . . so now there won't be any chance of a mixup.

PS POOP

PS Magazine can help you in lots of ways. It can even give you some points on your Command Maintenance Management Inspections. AR 750-8 (21 Aug 62) on CMMI's pinpoints this on Page 21. Under Suggested Improvements it has, "PS Magazine not readily available to operators and maintenance personnel." Remember the old saying, a suggested improvement today will keep tomorrow's gigs away. 'Nuff said? Be sure your outfit orders enough copies of PS on DA Form 12-4.

REAL STUCK-UP

As you know, Change 4 (2 Oct 61) to AR746-2300-1 (11 Mar 60) authorized the use of vinyl-type pressure-sensitive decals that you can apply direct to your vehicles and equipment. Now comes TB Ord 1044 (8 Oct 62) to spell out the whole works—FSN's, how to apply and remove, etc. Get hold of a copy on the double.

DE CODE IT

Could be you've caught it.

The action and failure code charts on back of DA Forms 2407, 2407-1 and 2408-3-1, and in Appendix 1 of TM 38-750, list **torn** under code 647 and also under 947. The duplication is a misprint . . . the right code for torn is 947.

HONEST JOHN CHANGE

MWO 9-1055-209-30/2 (21 May 59) puts a rectifier in the electrical starting circuit of the M25 engine generator on a coupla pieces of Honest John equipment. Tell your support unit there's been some changes. The rectifier wants to go on other H-J equipment—like the M405 handling unit, the M386 rocket louncher and the M78A1 heating and tie-down kit. The rectifier is needed on all the M25's to prevent damage to your test equipment if the battery polarity is accidentally reversed.

INFORMATION? CHEEZ

You say you don't know your reamer from a prick punch? Man, get the broad view! Read TM 9-243 (Sep 60). With fingertip poop it's loaded . . . the use and care of hand and measuring tools . . . conversion charts to fit every problem . . . a regular book of knowledge!



Would You Stake Your Life on

the Condition of Your Equipment?

