

WHERE, OH, WHERE DID YOUR PILL MAN GO?

don't know supply get assigned to repair parts supply jobs. There's been a big squawk in a lotta outfits because so many men who

time getting repair parts to keep your equipment maintained. It could be Maybe you've been wondering why you've been having such a rough just what was said: No trained repair parts PLL supply man.

The solution to this problem could be right there in your own outfit,

or, at most, in the next company or battalion.

"Howzzat?" you say.

by a key number, 76, in their MOS. The ones you're most in-The Army has trained oodles of supply men. You can spot 'em terested in are 76A and 76Y.

SUPPLIAMY AND COM in a jiffy. And, with the backing of your unit's CO (remem-Your unit's personnel clerk can spot any of these MOS ber, bad supply and maintenance sure can hurt his pair parts supply job today. mission), you could very well get a 76-er on that re-

... getting those "76" supply men in supply slots You might call this "Operation Spirit of 76" Give it a try.

ROOM IS A MESS

THIS SUPPLY

SUPPLY MAN WHAT KIND OF

ARE YOU

ANYWAY?

76'S IN THIS GOT ANY

HAVE WE

STIFTING

SOW AW THAT'S



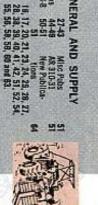


Issue No. 208 1970 Series THE PREVENTIVE MAINTENANCE MONTHLY March

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GROUND MOBILITY 2-19 Tank Primary Fuel Fatter Units Fask Wheel Torque A17C Range Finder

105-MM Howitzer 20-22 M79 Cartridges M107 23 Small Arms Tool Kit FIREPOWER 20-28



GENERAL AND SUPPLY

Hary/HuryCobra 52-58 AIR MOBILITY 52-57 DA Form 12-31 56-57

ONLY ASSIGNED SUPPLY MAN

> I'M ONE YEAH-

HERE

I'M NOT A

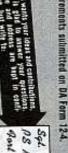
TEMPORARILY

ÁN/PRC-10 CX-4245/G Cable Parts Note Nylon Wrench

VRC-12 Fuse News

Use of fends for printing of this publica-tion has been approved by Headquarters, Department of the Army, 26 February 1968. DISTRIBUTION: In accordance with re-quirements submitted on DA Form 12-4.





08 Magazine. Sqt. Half-Mast. Post Know, Ky

40121

CHECK OUT YOUR TRUCK...

BY THE NUMBERS.

BEFORE OPERATION

Front of Vehicle Checks



DURING + AFTER
OPERATIONS CHECKS

AND SAVE STEPS.

THIS WAY YOU

8

the date and signature.

DAMAGE: At the front of the vehicle, check these items for damage:

a. Fenders: Dents, splits, rust spots, missing or loose nuts and bolts?

b. Grill: Breaks, missing or loose nuts and bolts?

c. Radiator: Leaks? Bent or punctured tubes? Obstructions in the radiator core?

& EVERY BOD

WINS &

BINNOS

WALKAROUND

SEE THE BEAUTHU

WORLD FAMOUS

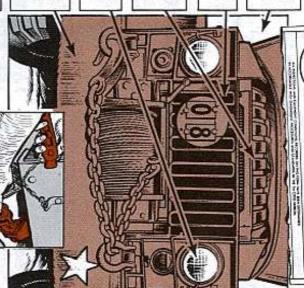
TOUS SOM

d. Lights: Cracked lenses, loose mounting rims? All lights secure?

e. Bumper: Dents, broken welds, loose or missing nuts and bolts? Any spots need painting?

f. Hood: Dents, cracks, missing or loose bolts? Any spots require repair or paint?





g. Airline connections: Dummy couplings in place? Connectors damaged?



oil AND WATER LEVELS: Oil level at the FULL mark? Not overfull? Water in radiator cover the end of tubes? Cracked, loose, or broken water hoses? Loose parts? Broken or leaking fuel or oil lines? Antifreeze recorded on monthly DA Form 2408-1? (For multifuel engine oil check procedure, see PS 205, Page 54, or TB 750-981-3 (Jul 69), Article 3-8.)









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which might have occurred after the vehicle was parked the night before. This should include such items as broken windows, dents, scratches, etc.



connected right.

damage to connections, and see that dummy couplings are in place. If the vehicle is connected to a trailer, make sure all lines are

AIR HOSE CONNECTIONS: Check for any



Inside Cab (1)

should not creep down. If a loss of foot system and it must be corrected soonpressure is noted, there's a leak in the checked and adjusted. pressed. If the space is less than 1/2 pedal travel, the brakes should be and the floorboard when pedal is debetween the bottom of the brake pedal est. Make sure there's plenty of space pedal travel, the brakes should pedal and hold down. The brake peda PEDAL: Depress the brake





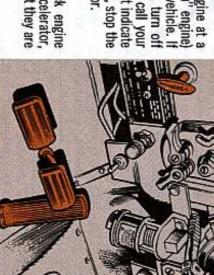
CLUTCH PEDAL ADJUSTMENT: See

travel is the movement of the clutch if there is enough free travel. Free pedal not with the feet by depressing the clutch pedal by hand extremely sensitive and should be made gage. All clutch adjustment checks are creases and the clutch starts to disenpedal downward before pressure in-

Clutch pedal frée travel must be no less than

21/₃-ton (M35A2 etc.) — TM 9-2320-209-20 (Apr 65), para 150a 1½-ton (M715 etc.) — TM 9-2320-244-20 (Oct 68), para 02-4c 3/4-ton (M3781 etc.) - TM 9-8030 (May 55), para 187 -V4-ton (M151A1 etc.) — TM 9-2320-218-20 (Aug 68), para 2-44 10-ton (M125 etc.) — TM 9-2320-206-20 (Apr 66), para 2-69a 5-ton (M54A2 etc.) — TM 9-2320-211-20 (Mar 63), para 158a 11/6 inches 1 1/2 inches ¾ inch 1 inch 2 inches

supervisor. If oil gage does not indicate fast idle (do not "race" or "gun" engine) engine, and call your supervisor. pressure within a few seconds, stop the the engine immediately, and call your you hear any unusual noises, turn of and check under the hood of vehicle.



controls, including the accelerator, throttle, and choke, to see that they are functioning properly. ENGINE CONTROLS: Check engine





ed as follows:

oil pressure does not mean the crankcase is full! Pressure readings may go up or of pressure indicates trouble. Stop the engine and find out what's causing it. down as engine speed is increased or decreased, but a sudden drop or uneven change less than 15 pounds. Pressure indicates engine oil pump is working. But, remember, a. Oil Pressure: Oil pressure - when engine is idling - should register not



AGREE WITH THIS TABLE

 Battery-Generator Indicator: With switch ON (engine not running), needle should register 2/3 up in the yellow panel; with engine running at high idle (about 1,500 RPM), needle should register 2/3 up in the green panel (at the nub).



be registering the RPM of the engine.



This gage should indicate the pressure at which the brakes will operate effectively. (100 to 105 PSI for 2½ and 5 ton trucks. e. Air Brake Pressure (if applicable)



d. Fuel Gage: Fuel gage should reg-ister full if the previous operator did his

last after operation check

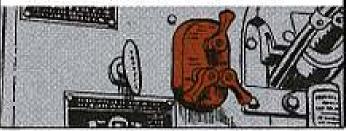
is from 160 to 180 degrees f. Temperature Gage: Normal range





a. Air Pressure Warning Buzzer: This buzzer is a low pressure warning device and will buzz until your operating pressure reaches 65 PSI. Do not move your vehicle until you have operating pressure, and the warning buzzer has stopped.

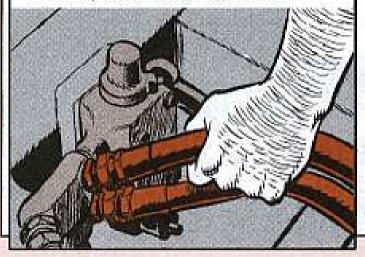
b. Lights: Make sure they're all burning, both high and low beam, and that tail and stop lights are operating.



d. Windshield Wipers: Make sure blades are in good condition and wipers operate.



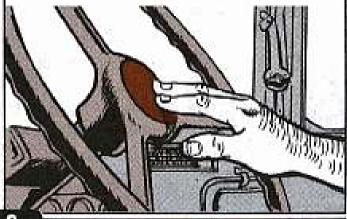
DUMP HOIST (if applicable): Raise and lower the dump body to make sure it will operate. Check for leaks.



c. Mirrors: Make sure the mirrors are not damaged. Adjust for driving.



e. Horn: Make sure it blows.



ACCIDENT REPORT AND IDENTIFICA-TION FORMS: Make sure you have Accident Report and Identification Forms in the glove compartment (Std Form 91 and DD Form 518).



SURE I
KNOW WHERE THE
ACCIDENT REPORT
FORM IS! IT'S
THE GLOVE
COMPARTMEN
I CAN'T FIND



BRAKE ADJUSTMENTS:

sure all wheels are braking equally.

Notice any loss of pressure in the

pedal when you apply the brakes.

Make

DURING OPERATION

There is no set time for making the during operation checks; however, they should be made periodically during the day, as necessary.

While Driving

sharp ear for any unusual noises in the engine, clutch, transmission, transfer case, drive shaft and rear end. An unusual noise is any noise you do not normally hear during operation.

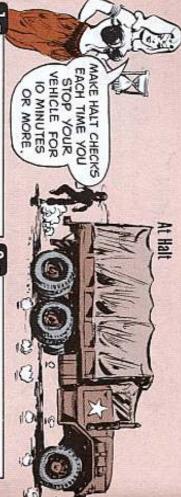
STEERING: Be sure there's not too much free play in your steering, wheel. Notice any hard steering, wheel wobble, or wandering of your vehicle from side to side. If you think something is wrong, stop and check.

CLUTCH ADJUSTMENT:

There should be no slipping or chatter when it starts to engage. Be sure you do not "ride" the clutch. (Keep your foot off that pedal!!)

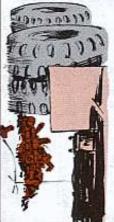
check should be continuous through the day. A casual glance at the dashboard will tell you when your vehicle is operating properly. Instruments to check include oil pressure, bat-gen, tachometer, fuel, air pressure, temperature and speedometer gages.

your engine operates smoothly at all times. Listen for any knocks (valve knock or gas knock). Make sure your engine is hitting on all cylinders and is getting gas properly. Report any malfunction.



with the truck, checking on the ground under the vehicle for any excessive leaks. Take a quick look under the hood for any gas, oil, or water leaks.

3 LOOSE NUTS AND BOLTS: Look under carriage and body mountings for loose or missing nuts and bolts.



TIRES AND WHEELS: Check your dual tires by striking with a lug wrench to be sure they are inflated. Check all wheel lug nuts; make sure they're in place and tight. Remove any rocks you find between dual tires.

halt of the day, and before parking your truck for the night, check and refill to proper level: Crankcase with Oil, Radiator with Water, and Fuel Tank with Fuel. Record fuel and oil on the trip ticket. (DA Form 2408-1).

AFTER OPERATION OOO-EET-OO-AH-AH
TING TANG WALLA

START THE ENGINE: Listen for any unusual noises you may have not noticed during operation. Look at the following safety devices with the engine running:

4

a. Air Pressure Warning Buzzer:
Make sure the air pressure warning
buzzer is operating and cuts out at correct pressure. Do this by bleeding down
the air pressure to below 65 PSI.

5

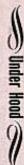


b. Mirrors: Not broken or loose. Adjusted for rear-view vision.

c. Lights: Make sure all lights are in operating condition (check high and low beams), including the tail and stop lights, particularly if the vehicle is to be used that night.

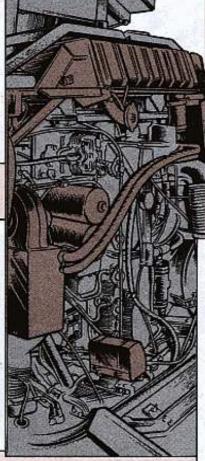
 d. Windshield Wipers: Make sure they operate and rubber on the blades is not damaged.

e. Horn: Make sure it blows!



hood and eyeball the following items:

a. Leaks: Look around the valve cover (on top of the engine for valve-in-head, and side for L-Heads), around the oil filters or lines, and the fuel system



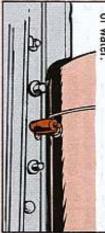
b. Loose Items to Look
For: Vibration in the generator, water pump, fan, and
air cleaner; any loose wiring or mountings.

Check exhaust and intake manifolds for cracks or escaping gas. Same for the cylinder head gasket, to make sure there is no escaping power. Inspect radiator for leaks in the tank, core or connecting hoses. Watch that fan, and keep your fingers attached to your hands.





of water Shut off petcock when air looks clear allow accumulated water to blow out. DRAIN AIR TANK: Open petcock to



metal spots that need painting) DAMAGE: Dents and scratches (bare



6 SPRINGS, and secure mountings. Make sure shock absorbers are mounted properly. Look RODS: Inspect springs for broken leaves SHOCKS AND TORQUE

sure they're secure.

at torque rod ends for wear and make



12

cap. ground and underside of vehicle. LEAKS: Excessive leaks on FUEL TANK: Check for bad gasket on

lug wrench. Make sure all wheel lug single tires and hitting duals with a are correctly inflated by looking at nuts are in place and tight. TIRES AND WHEELS: Make sure tires



bolts, and clean lubrication. Look for excess play, loose nuts and DRIVE SHAFT AND UNIVERSALS:



GOT OUT OF THE KNOW? I JUST TRUCK AND I DON'T

SLAMMED THE

DOOR.

BANG

CRASH

PING

missing bolts? linkage tight? Leaks? Steering arms and STEERING MECHANISM Loose 9

LOOSE OR MISSING

hicle, including body loose or missing bolts and cables, frame, etc., for any **BOLTS:** Look over entire ve-

N ESS O

tors, tailgate, and body DAMAGE: Lights, reflec-

LEAKS: Unusual leaks differentials, and hoist ason the ground, on the rear sembly (dump trucks only).

lings are in place. damaged and dummy coup-Make sure they are not AIR CONNECTIONS:



HOW'S IT

Right Side Same as left side except for . . .

make sure vent holes aren't plugged up. of lubricant is applied to the terminals of the batteries. Make sure a thin coat dirt or condensation that may be on top to prevent corrosion, and be sure bat minal connections loose? Wipe off any inch over the plates (do not overfill). Tertight? Look at filler caps for cracks and tery box cover is put back on right Holddown connections





grill, hood and bumper for dents, rust spots, broken welds, missing bolts and DAMAGE: Look over front fenders,

STEERING LINKAGE: Look for loose tie rod ends and excessive drag link



LEAKS: Unusual leaks on the ground and underside of vehicle.



eyes over all mounting bolts, those on the fender and body, for loose LOOSE NUTS AND BOLTS: Run you including

or missing items.



CV JOINTS: Look for torn or leaking pending on vehicle. boots, or rusty and worn ball joints, de-

REPORT VEHICLE CHECKED AND SECURED: Report to your supervisor that your vehicle has been thoroughly checked, is ready for the following day's operation and has been secured for the night.

CHECK LIST BEFORE OPERATION

FRONT OF VEHICLE

LEFT SIDE

- Tools and Equipment
 Damage
- 3. Leaks
- 4. Oil and Water Level



1. Damage Tires and Wheels Tighten Gas Cap Leaks

Damage Tires and Wheels

Tighten Gas Cap

REAR



IN SEAT

- Brake Pedal Adjustment Clutch Pedal Adjustment (START ENGINE
- Unusual Noises
- 5 Instrument Check Engine Controls
- Oil Pressure Bat-Gen Indicator

Air Hose Connections
 Leaks

1. Damage



- e. Air Brake Pressure Fuel Gage
- f. Temperature Gauge
- 6. Safety Devices
- a. Air Pressure Warning Buzzer Lights
 - - - - d. Windshield Wipers
 - 7. Dump Hoist e. Horn
 - 8. Accident Report and Identification Forms
- 9. Report Vehicle Checked and Ready for Uperation

OPERATION CHECK

Brake Adjustment

4. Unusual Noises

Engine Operation

- Clutch Adjustment
- instruments
- a. Oil Pressure
- c. Tachometer Bat-Gen Indicator
- Fuel Gage
- Temperature Gage Air Brake Pressure
- Speedometer



- 2. Tires and Wheels
- 3. Loose Nuts and Bolts
- 4. Oil, Water, and Fuel (Refill)

AFTER OPERATION CHECK

1. Damage Leaks

1. Start Engine

Lights

Mirrors

Air Pressure Warning Buzzer

- 3. Air Connections
- 4. Loose or Missing Bolts



1. Damage

Under Hood

e. Horn

Windshield Wipers

a. Leaks

Look For Loose Items

- 2. Tires and Wheels
- 3. Springs, Shocks, Torque Rods
- Loose or Missing Bolts 4. Leaks
- 6. Buttary Loosen Gas Cap



Tires and Wheels

Damage Loosen Gas Cap

Drain Air Tank

- 2. Leaks 1. Damage
- Steering Linkage
- 4. Loose Nuts and Balts
- 5. C/V Joints 6. Report Vehic

Loose or Missing Bolts

Steering Mechanism

Looks

Operating Faults

Report Vehicle Checked and Secured



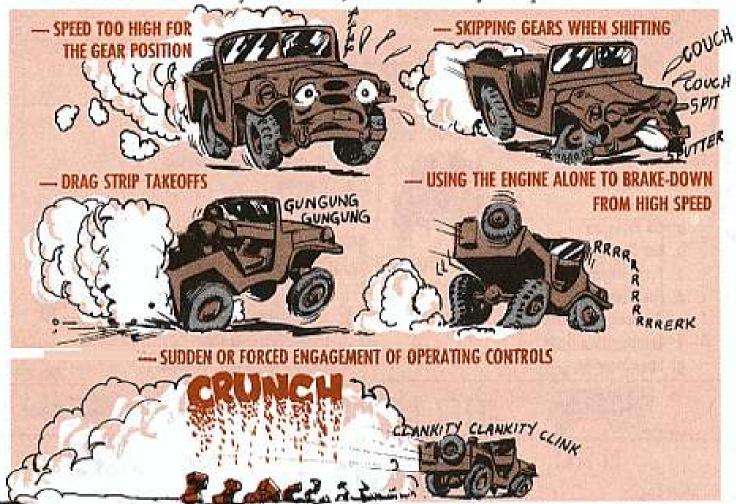
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BELOW 50-MPH FOR M151 4

It's recommended that you keep the top speed for your M151-series 1/4-ton truck under 50-MPH for the first 1,000 miles of operation. This's for proper break-in of drive line components and service brakes.

Whether new or already broken in, never torture your quarter-tonner with:



M113 | M113A1 WEIGHT CLASS

Confused about the weight classification for M113/M113A1 vehicles, including the M577A1? It's 11...like FM 5-36 (May 65) says in Ch 1 (Apr 66), Table IV-1, page AIV-9. TM 9-2300-257-10 will get this new word.



SWITCHIN' TIME



There's a new starter switch for G744-series 5-ton diesel and multifuel trucks and for those G742-series 2-1/2-ton multifuel trucks with the LD 465-1 engine (M35A2 etc.). Ask for Switch, starter, FSN 2920-133-9629 the next time you order one. It replaces Switch, FSN 2920-781-1953.

EXHAUST CLAMP

Have you got the new vertical exhaust stack on your M52A1 truck tractor (or other straight diesel 5-tonner)? The exhaust pipe-to-turbocharger clamp assembly is FSN 2990-972-2605—same as used on the older exhaust system—listed in TM 9-2320-211-20P w/Ch 1 and Ch 2 (Apr 67).



So you got a little leak around the outlet opening on the primary fuel filter head of your M60A1 tank . . . or maybe it's on your M60, M48A3 or M103A2 tank or AVBL or M728 CEV.

The thing not to do is try to stop the leak by tightening up real hard on the tapered pipe reducer FSN 4730-542-3253.

What'll happen, you're sure to crack the filter head. Then you've got real trouble.

The way to stop the leak is with a little thread and gasket sealing compound FSN 8030-656-1426. Put it on the threads of the pipe reducer and fuel line and then carefully tighten the connection to anything between 250-280 lb-in torque.

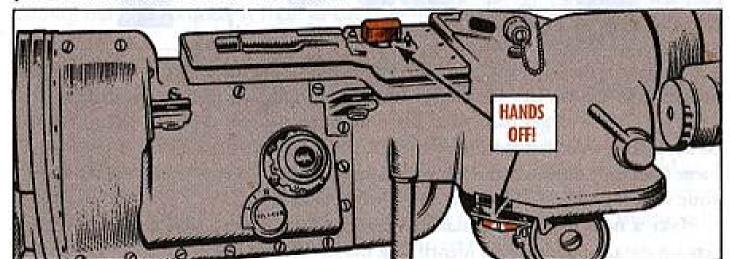


MITC RANGE FINDER REMINDER

Here's a reminder on that M17C range finder in your M60/M60A1 tank: Keep your cotton-pickin' hands off the ICS and halving knobs unless you know what you're doing.

The dope on using 'em right is on page 2-85 of Ch 8, (Sep 69) of your TM 9-2350-215-10.

For routine range finder operation leave the red covers in place, or you'll get your coincidence reticle out of whack.





If your requests for gas particulate filter units for your combat vehicles have been bouncing back, here's why—

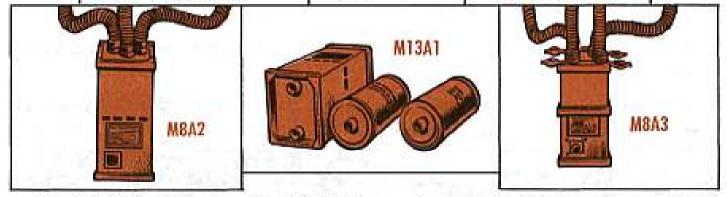
Filter units for CV's are now called installed equipment. The units will eventually be pulled out of your TOE and added to the vehicle's BIIL's.

CV's can get filter units in 1 of 3 ways:

- 1. Installed by MWO at support level
- 2. Installed by the manufacturer
- 3. Installed by depot

Even though your vehicle's TM may already cover PM SOP on a filter unit (like Ch 10, TM 9-2300-224-20, for example), filter units have been OK'd for the following vehicles only.

CV.	FILTER UNIT	BY MWO
M48A2 and M48A2C tanks	M8A2 or M8A3	9-2350-208-30/4
M48A3 tank	M8A2 or M8A3	9-2350-224-50/1
M60A1 tank	M13A1	9-2350-215-30/23
M88 recovery vehicle	MBA3	9-2320-222-30/7



The M551 Sheridan gets the M8A3 filter unit, and the M728 combat engineer vehicle gets the M13A1 filter unit. Both are installed by the manufacturer.

Other CV's will get their filter units installed as their MWO's are published. So keep an eye out for the filter unit OK for your combat vehicles. If your equipment is already authorized a filter unit, and the MWO hasn't been completed, give your support outfit a DA Form 2407 work request.

Make a note somewhere handy—a request for a filter unit must provide exception data. In addition to identifying the MWO, the DA Form 2765-1 must also

.

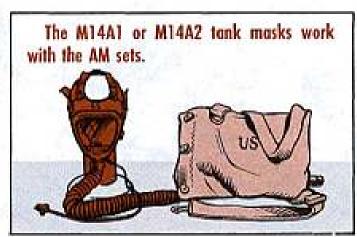
list the nomenclature, model and manufacturer's serial number (not the USA number) for the vehicle concerned.

Remember, once installed the filter unit stays with the vehicle all the way back to rebuild.

THE MASKS

On your requests for masks to go with the filter units installed in your CV's, you must provide exception data as to the vehicle's model number and the type of radio it uses (FM or AM).





The M14A2 mask, however, can be used with the FM radios when its mike is changed like it says in Ch 2, TM 3-4240-223-15, para 38.1. After the mike swap it becomes an M25 mask.

TANK WHEEL TORQUE

Without wheels your track vehicle won't roll.

So why is that news?

Because roadwheels and compensating idler wheels for some tracks are in real short supply.

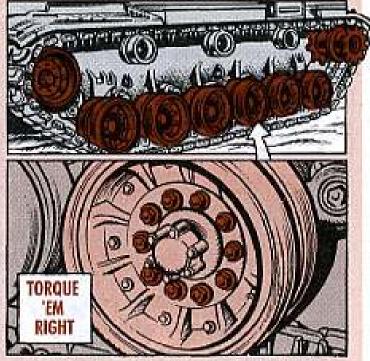
So what can you do about it?

You can get the longest possible life out of your roadwheels and compensating idlers by making sure all wheel retaining nuts are torqued as tight as the TM's say.

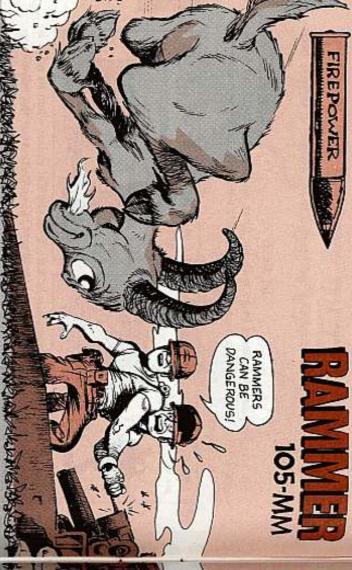
M48, M48A1 and M48A2 tanks — 380 to 420 pound feet torque on wheel retaining nuts.

M48A3 and M60/M60A1 family — 400-420 pound feet torque.

M113/M113A1 family — 150-170 pound feet.



Besides keeping your wheel retaining nuts tight you can help the supply problem by being a wheeler dealer and turning in to supply all unserviceablerepairable wheels on the shortage list for depot rebuild.



You can ram yourself into the next world with the wrong rammer-extractor for your 105-MM howitzer.

It's easy enough to do because at least 6 different wrong models (some of them very dangerous) are now in the field.

With the wrong rammer a tip of the ramming plate can set off the primer.

So, check all the rammers in your outfit and if you've got any that don't shape up, ship 'em out. Here's how you check:

Look for the part number (on the extractor).

Extractor
Howitzer Model Part Number
M101 or M101A1 7306159
M102 or M108 11577644

PLATES



Any rammer that can't pass the part number test should be taken out of service, but even if the part number is right the rammer could still be wrong.

Seems 2 or 3 different models were issued under the same part number. So check both the fulcrum length and the distance between the ramming plates. You have the right rammer only if everything matches up like this . . .

101 or M101A1 102 or M108	Howitzer Model
7306159	Part Number
61/2 inches 63% inches	Fulcrum Length
11/2 inches 11/2 inches	Minimum distance between

HOWITZERS
HOWITZERS

Feen with the right rammer you're still not home free and clear. If it's burred, the state of the sta

Even with the right rammer you're still not home tree and clear. It it's burred bent out of shape or banged up it's dangerous, so turn it in for a new one.

Here're the FSN's and authority for the rammers:

M101 or M101A1 (FSN 4933-730-6159) ______ Ch 5 to 1

M108 (FSN 4933-927-7277)

Ch 5 to TM 9-325
TM 9-1015-234-12
Ch 4 to TM 9-2350-217-10

So now you have the right rammer, and it's in good condition. You could still blow things up by using it upside down.

It's easy to figure out which is upside down and which is right side up. Just put the rammer tool into the breech recess so the rounded edges of the ramming plates will make contact with the cartridge case.

This will happen with the M101 and M101A1 if you put the fulcrum into the breechblock guides in the breech ring with the tips of the extractor pointing to the right.

with the M102 or M108 you position the tool so the extractor tips are pointing straight downwards.





The fulcrum should slide freely in the guides. If you put it in right but it fits so loosely it could tip in the guides it is too worn or damaged to use—so get a new one.

You don't need to use a lot of muscle. If you can't seat the cartridge easily, take it out and put in a new one.



Suppose you need a rammer but you turned in your old one and you don't have the new one yet . . . What to do?

You can sometimes seat a round that won't chamber when you first load it by

using the open end of a fired cartridge case as a rammer.



To get out an unfired round stuck in the chamber, use the bell rammer on the end of the sectional cleaning staff, and gently poke it out.

WARNING: Cartridges, projectiles or fuzes that have been removed from a weapon by ramming are not to be used again. This is because some non-standard condition in the ammunition may have made the ramming necessary and the ramming might have damaged the fuze.

If the round has been fired, poke out the empty cartridge with the cleaning staff without the bell rammer on the end.

These are field expedients to be used only until you get the right rammerextractor.



Dear Half-Mast, Some towed howitzers - like the M101A1 -

have serial numbers on the breechblock and the carriage but none that apply to the complete weapon.

SO WHAT NUMBER DO WE USE ON LOG RECORDS OR ON DA FORM 2407?

Dear Captain J.Z.,

CPT. J. Z. Jr.

For the M101A1 and other howitzers that don't have serial numbers for the complete weapon, use their carriage serial numbers.

The rule in TM 38-750 on use of DA Form 2408-8 control numbers doesn't apply to these howitzers.



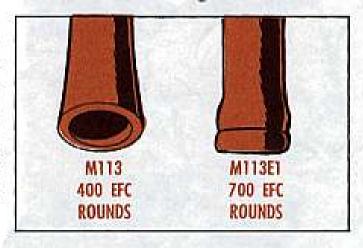
AUTOFRETTAGE TUBES ARE COMING



A new M113E1 autofrettage tube for your M107 175-MM SP gun is the latest round of good news to zero in on gunnery circles these days.

This E1 model will almost double interim tube life by letting you reach 700 effective full-charge rounds between trade-ins... compared to 400 EFC rounds on the current M113 tube. So, you don't have to ask for tube changes as often.

You'll only be able to tell the difference by the bell shaped muzzle on the autofrettage tube. But your supply man will know the difference by its FSN: 1025-113-5636 for the complete cannon, including all breech components ... FSN 1025-113-5637 for the tube only.



STICK TO M79 CARTRIDGES

The M79 grenade launcher's not designed to fire pyrotechnic cartridges used in the AN-M8 Very pistol or AN-M9 hand projector. Cartridges AN-M37 thru AN-M58 are .055-inch smaller in diameter than the 40-MM ammo and have no rotating band.

Using other than authorized 40-MM cartridges in the M79 could damage both you and the launcher.



GUNSM

that armorer's tool kit. Here's the story: you're wondering what's happened to Now you see it—now you don't. So

357-7770, LIN W51910 (453995), SC deleted 11 and changed the set to Small 9-196 (Apr 67). The SB added 27 tools, 5180-A19 (Jan 62) was changed by SH 0640, LIN 453650 W31634, SM 10-4 dated April 1969. 4933-95-CL-A07. The latest pub is Arms Repairman Tool Kit, FSN 4933-Armorer's Tool Kit, FSN 5180-754.

SOME CHANGES MADE IN YOUR SMALL ARMS REPAIR KIT

THERE'S BEEN

FSN 4933-357-7770, but if you just need to bring your kit up to date, order the individual items you need. If you need a complete tool kit, order

kit. You get one each unless noted. Here's what you should have in your

ments 1 in x 11/2 in, 1 compartment 41/4 in x BOX, PLASTIC, SMALL PARTS: 16 comparthinged cover 11/2 in, 7% in 18 x 41/2 in w x 11/2 in h, w/



FSN 8115-663-0212

CAPS, VISE JAW: brass face, 21/2 in w jaws

FSN 5120-246-4746

CHISEL COLD, HAND: 36 in w cut, 51/2 in

FSN 5110-242-3457

24

4933-357-7770 Repairman

Hool Wit HUN

Small Arms

DRIFTPIN: sgle taper, 1/4 in largest dia, 4 in Ig

DRIFTPIN: sgle taper, 1/2 in largest dia, 4 in

FSN 5120-239-0036

faces, sgle-cut sm edges, 6 in heel to pt FILE, HAND: American patt, fl type, dble cut sm

cut sin face, sgle-cut sm face, 6 in heel to pt FILE, HAND: American patt, half-rd type, dbli

FSN 5110-241-9149

of largest sec, sgle-cut sm cut, 6 in heel to pt FILE, HAND: American patt, rd type, 1% in dia

sgle-cut handsaw faces and edges, 6 in hee FILE, HAND: American patt, slim toper type

FSN 5110-234-6528



cut, 51/2 in Ig o/a, 12 files, w/case, c/o 1 ea FILE SET, HAND: sw-patt, needle type, No. 0 barrette 5110-249-2886

crossing equaling 5110-166-1207 5110-249-2883

flat 5110-249-2882

half-round 5110-245-4160

joint 5110-239-3276

knife

5110-166-1203

marking 5110-293-1488

round 5110-166-1201

square 5110-239-7597

slitting 5110-239-7609

three square 5110-239-7586

FSN 5110-204-2684

plastic faces, I med and I tough face, 5 oz When exhausted use 5120-900-7871 HAMMER, HAND: 1 in dia screw-in inserted

FSN 5120-293-2208

plastic faces, fbrglass hdl, 11% in lg, % lb wt HAMMER, HAND: 1 in dia screw-in inserted



FSN 5120-900-7871

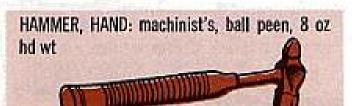
FACE, HAMMER, INSERTED: med plastic

FSN 5120-293-3003

FACE, HAMMER, INSERTED: tough plastic

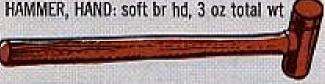
FSN 5120-293-2999





FSN 5120-061-8541

HAMMER, HAND: soft br hd, 3 oz total wt



FSN 5120-242-3908

HANDLE, FILE, WOOD: 1 in dia, 4 in lg o/a small size



FSN 5110-263-0342

HANDLE, FILE, WOOD: 11/2 in dia, 41/2 in Ig o/a med size



FSN 5110-263-0349

HANDLE, SOCKET WRENCH: rvrs rtc palm grip type, 3/4 in drive end, 13/8 in lg o/a



FSN 5120-786-3782

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, 1/6 in w across flats, 13/4 in lg arm

FSN 5120-198-5398

KEY, SOCKET HEAD SCREW: hex type, L-type handle, 3/2 in w across flats, 2 in lg arm

FSN 5120-242-7410

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, 34 in across flats, 23/2 in Ig arm

SN 5120-889-2162

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, 1/4 in w across flats, 21/4 in lg arm

FSN 5120-240-5292

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, 1/2 in w across flats, 21/2 in lg arm

FSN 5120-198-5392

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, % in w across flats, 2% in lg arm

FSN 5120-240-5300

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, ¾6 in w across flats, 3¾ in Ig arm

FSN 5120-240-5274

KEY, SOCKET HEAD SCREW: hex type, L-type hdl, 1/2 in across flats, 11/2 in lg arm

FSN 5120-224-2504

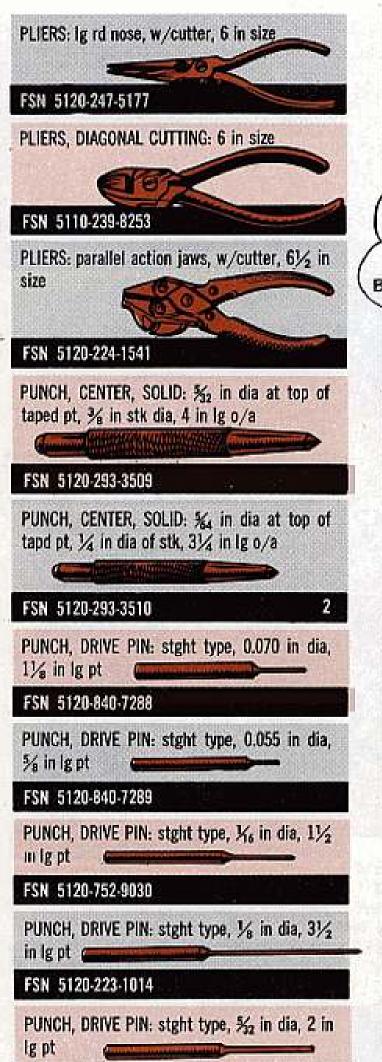
OILER, HAND: 6 oz cap, pressure fed by int pump S body, ni-pltd fin, 11/2 in bottom dia, 6 in Ig spout w/removable tip, w/closure cap attached, w/o holder bracket

FSN, 4930-985-2604

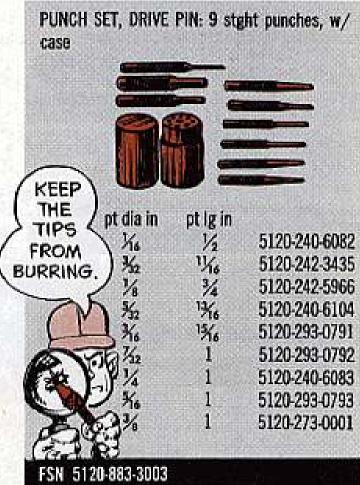
PADLOCK: pin tumbler type, individually keyed, 5,000 key changes, 11/2 in w x 11/4 in h br-bz case, 3/2 in clearance .240 in to .323 in dia brbz shackle, w/clevis, chain, and 2 keys



FSN 5340-682-1508



FSN 5120-752-9031



RASP, HAND: $1\%_6$ in w x $\%_6$ in thk at largest sec, sm cut faces, file cut edges, 12 in heel

to pt

FSN 5110-233-9722

SCREWDRIVER, CROSS TIP: plastic hdl, Phillips No. 1 tip, 3 in lg blade, 3/2 in female sq-drive in end of hdl



FSN 5120-764-8080

SCREWDRIVER, FLAT TIP: plastic hdl, 1/4 in w flared tip, 11/2 in lg blade, 3/8 in female sq-drive in end of hdl

FSN 5120-832-6223

SCREWDRIVER, FLAT TIP: plastic hdl, plain, 1/4 in w flared tip, 4 in Ig blade, 3/8 in female sq-drive in end of hdl

FSN 5120-764-8058

SCREWDRIVER, FLAT TIP: plastic hdl, plain, 3/8 in w flared tip, 8 in lg blade, 3/8 in female sq-drive in end of hdl

FSN 5120-764-8060

SCREWDRIVER, FLAT TIP: plastic hdl, stght sided tip, %4 in w, 5 in lg blade, % in female sq-drive in end of hdl

FSN 5120-010-7913

SCREWDRIVER, FLAT TIP: plastic hdl, 3% in tip w, 5 in lg blade, 3% in female sq-drive in end of hdl

FSN 5120-042-6837

SCREWDRIVER, FLAT TIP: plastic hdl, w/pocket clip, 1/2 in w flared tip, 2 in lg blade

FSN 5120-236-2140

SCREWDRIVER, JEWELER'S SWIVEL KNOB: 0.070 in w tip, w/1 removable blade

FSN 5120-180-0728

STONE, SHARPENING: half-rd, syn, al-oxide, fine grit, 4 in lg x 3/6 in w x 3/6 in thk o/a

FSN 5345-224-6595

STONE, SHARPENING: natural, unmtd, hard grit, sq. 1/4 in thk x 1/4 in w x 3 in lg

FSN 5345-243-6087

STONE, SHARPENING: natural, unmtd, hard grit, rd-edge slip, 4 in lg x 1¾ in w x ½ in thk edge, ¼ in thin edge

FSN 5345-243-6086

STONE, SHARPENING: rd, syn, al-oxide or silicon carbide, fine grit,4 in lg x 3/2 in thk

FSN 5345-584-4554

STONE, SHARPENING: sq, syn, al-oxide or silicon carbide, fine grit, 6 in Ig x 3/8 in w x 3/8 in thk

FSN 5345-584-4605

STONE, SHARPENING: tri, syn, al-oxide or silicon carbide, fine grit, 4 in lg x 3/8 in w x 3/8 in thk

FSN 5345-584-4615

TAPE, MEASURING: S, general purpose distance measuring type, $\frac{1}{2}$ in w x 72 in Ig, grad in units of $\frac{1}{2}$ in, $\frac{1}{16}$ in, and 1 in, $\frac{1}{2}$ in increments 1st 6 in upperside, $\frac{1}{16}$ in increments on bal of ribbon, Ih to rh reading, w/case, butt end type, pull-push rewind

FSN 5210-287-3335

TOOL BOX, PORTABLE: S, enmld fin and painted, 16 in Ig x 8½ in w x 10¾ in h o/a excl projections, 5 drawers, w/panel front, Ikg facilities incl. nonintegral lock, 2 additional handles located on sides

FSN 5140-449-6856

VISE, BENCH, CLAMP BASE: stationary base, w/anvil back, 2½ in w jaw, 2¼ in jaw opng

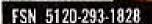


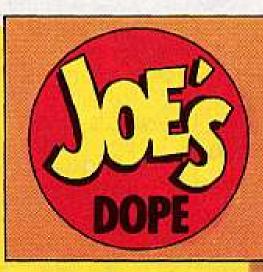
FSN 5120-243-1372

WRENCH, OPEN END, ADJUSTABLE: sgle-hd type, 0 to 1.135 in opng, 10 in lg o/a

FSN 5120-449-8083

WRENCH, OPEN END, FIXED: sgle-hd type, 3/4 in lg o/a





Man, rock to the tale

of Orwell Giggit,

who didn't dig it!

his thirty days,

A short-time troop

Just sweatin' out

flubbin' the dub

THE
BALLAD
OF
ORWELL
GIGGIT

MAN,
I'M SO SHORT
I AIN'T EVEN
GOT TIME FOR
RAPPIN' WITH
A GUY WHO
STUTTERS!

WELL,
GIGGIT,
YOU'D BETTER
MAKE THIS
SCENE.
CONNIE IS
GIVIN' A
SMALL ARMS
LECTURE!

in fifty ways!

Hey! hey! hey!

in fifty ways!

Ooohh, that swingin'

Giggit, that

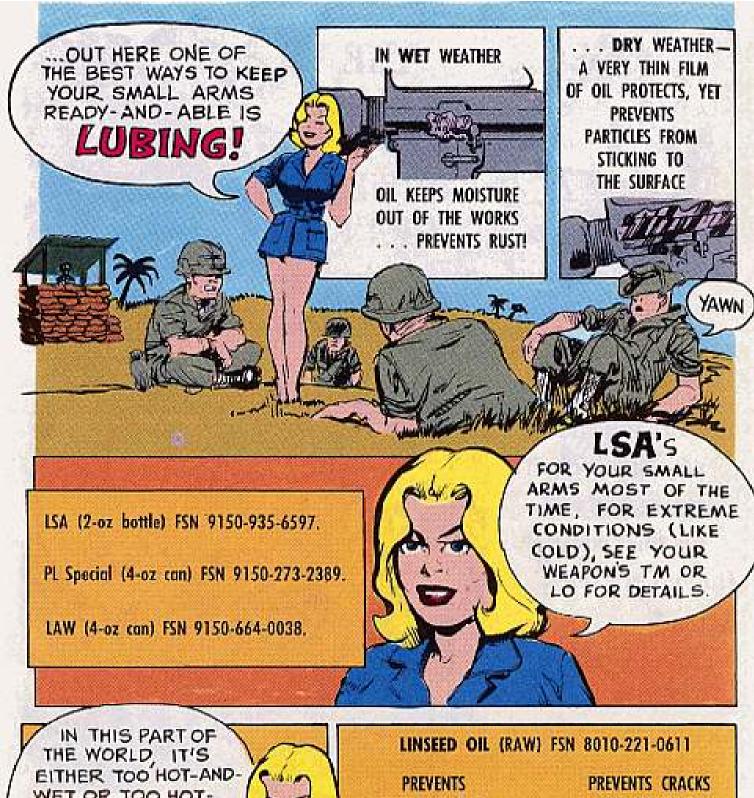
groovy cat...

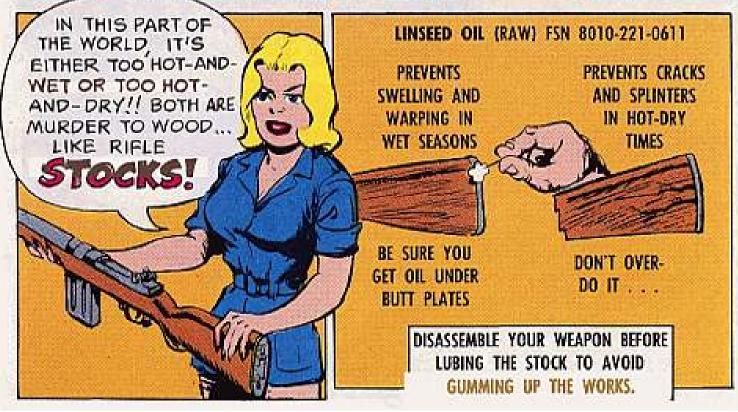
It's 'Deros' this and
 'Retro' that...

For ''goin' home'' is
 his only goal

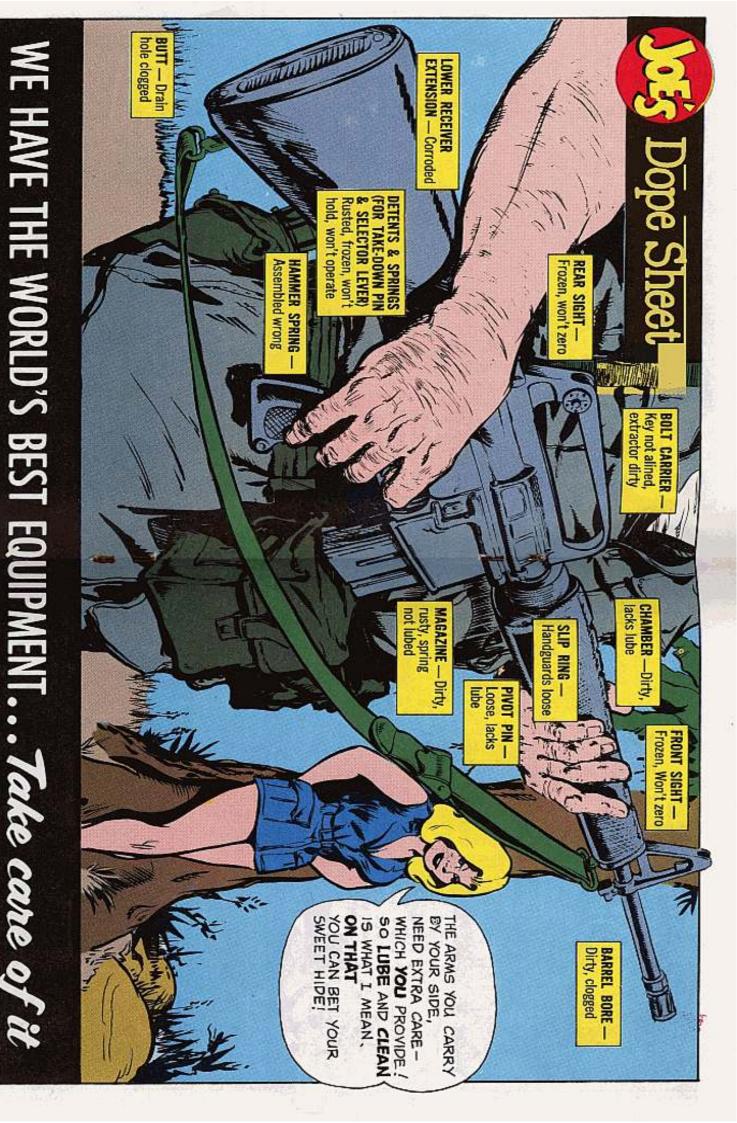
As he saddles up for
 his last patrol...





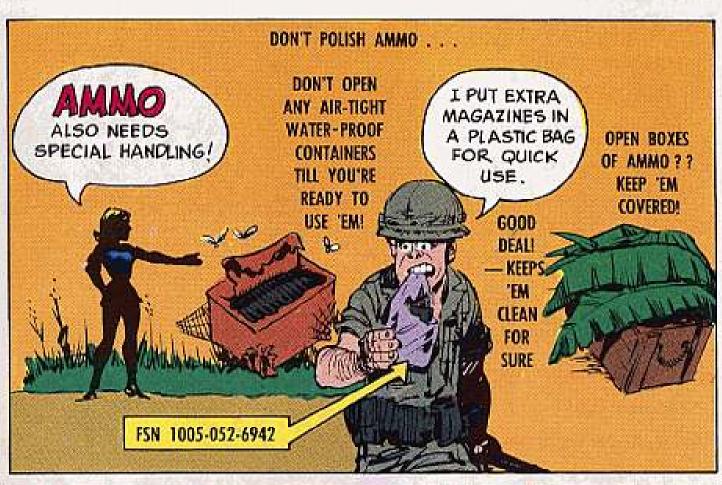












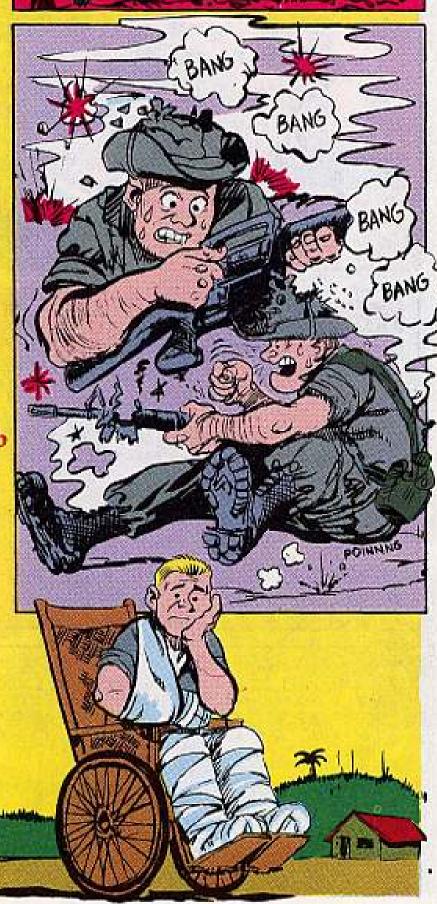


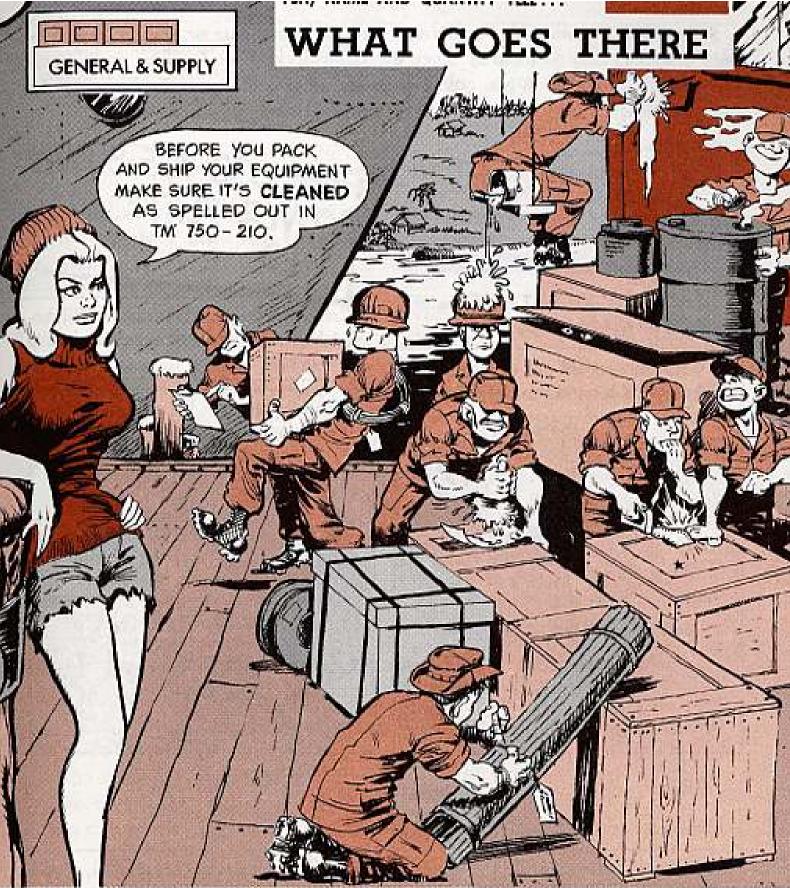




So Orwell Giggit trod the ground on that last patrol from his compound! But, it happened on that hot, wet day they hit an ambush on their way. And the shoot-out that o'course took place found our troop Giggit a sorry case. His weapon froze -- 'twas rust bedecked! The firing pin he'd never checked! The muzzle blocked by caked-up mud! The whole dang piece plumb fouled with crud! Just a coupla weeks of plain neglect was enough to see his deros wrecked! It's six months since Giggit was found he's still short-time but still around!







When equipment, components and parts are on shipping orders and under wraps, each item's got to be identified — no buts about it.

At every check-point in transit somebody needs to know "What goes there?" So . . . mark it before you move it.

If your outfit's involved in a rapid retrograde or deployment/redeployment action — Vietnam or otherwise — you may need a look at the rules in TM's of the 750-series. As issued they're appearing in DA Pam 310-4, and the appendix to TM 750-210 (24 Jul 69) also has a list identifying 'em by types of equipment covered.

Supplies move smoothly—up front and back to repair or storage depots—only if they're easy to identify. Even eyeball-to-lockpin or keyway, some items are hard to recognize. When boxed or inside other containers, they've got to be marked with:

- I. FSN.
- 2. Item name or description.
- Quantity in pack (as used for issue: each, pair, dozen, yard and such).

Mark this info — in 1-2-3 order — on all shipping-out containers, using either a —

Stencil (on containers such as metal, wood and cardboard boxes and cartons).



FSN 2530-705-8039 COVER PLATE

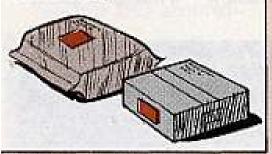
Tag (on bags, bales, bundles or other containers where labels and stencils are hard to apply), or



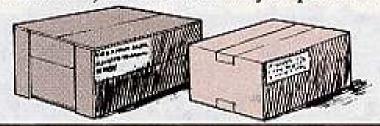
WHAT TO MARK

Identification markings are needed on:

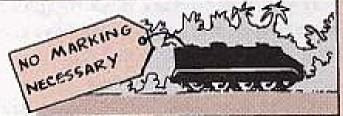
 All bags, cartons and packing envelopes or sacks that go inside shipping containers.



 All shipping containers (fiberboard, wood and re-usable metal) — except CONEX, MIL-VAN and SEAVAN. No outside identification is needed on CONEX, MILVAN and SEAVAN containers—just on the items you put in 'em.

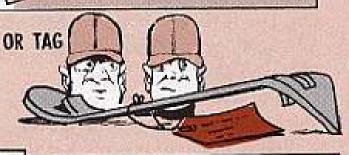


 All unpacked items — except vehicles and other major items that can be readily identified by data plates.



STENCIL, LABEL OR TAG

Use the stencil, label or tag that best fits the container, sticks to it and shows the identity of the item as it moves.



STENCIL with black ink, applied by spray, roller or brush. For slick surfaces like metal or glass, the ink is FSN 7510-191-6030. For porous or grainy surfaces like wood or fiberboard, use FSN 7510-161-0811.

For items shipped unboxed or uncrated, stencil directly on the item. Use gasoline soluble paint, FSN 8010-597-8235 (black) or FSN 8010-597-8238 (white).

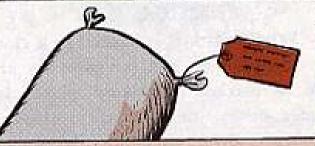
> 2530-705-8039 COVER PLATE 1EA

TAG the item if neither a stencil nor a label will do the trick. Use tag, FSN 8135-238-6917, and attach it to the container with the wire that comes with the tag.

LABEL with any type of paper label, using one of these 2 adhesives: FSN 8040-053-8452 or FSN 8040-656-0814. If the label goes on a package placed inside another container, it needs adhesive only on the underside.

On the other hand, if a label's applied to an outside container adhesive must be used to stick the label to the package and coated over the outside of the label to protect it from the weather.

2530-705-8039 COVER PLATE 1 EA



READY! AIM! MARK!

Before you make any new marks on a container, make sure it's ready for marking.

First, check the old markings—if any. If an item is still packed in the container it came in, you may not need to re-pack and re-mark. But be sure this is so.



If you're re-packing items in an old container, be wary. They may have the same name but a different FSN:

When the old container has any markings that don't apply, paint 'em out. Use lusterless lacquer, FSN 8010-527-3196 or lusterless enamel, FSN 8010-291-0889.

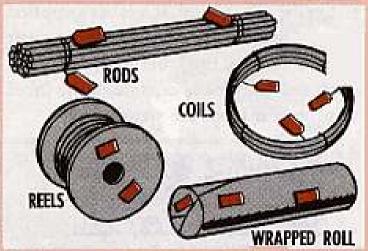
And make sure any surface to be marked has no dirt, oil or grease.

You're ready to mark—but where? There's no fixed rule, but it's best to put the identity on one side, the address on the other.

Markings are better protected on the sides than on bottom or top.

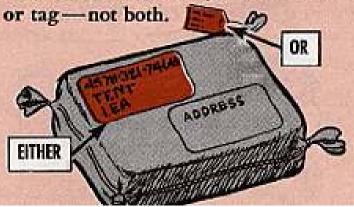


MISCELLANEOUS MARKING



BUNDLED IN CLOTH

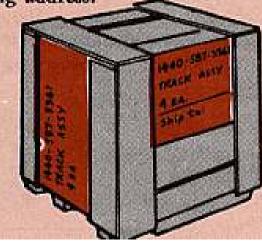
When materiel is packed in a clothcovered bundle, you can cover the area to be marked with sand-colored lacquer, enamel or paint. Then stencil it (after it dries, o'course). Or you can use a plain tag attached to an ear for identification. You only need to stencil or tag—not both.



Miscellaneous unpacked items like rods, coils and reels may need a special word. If there's a suitable spot, stencil or label 'em. If not, attach the identification on 2 plain tags. And put the shipping address on a third tag (DD Form 1387-1) or label (DD Form 1387). These 2 items—tag and label—are specially made for military shipments.

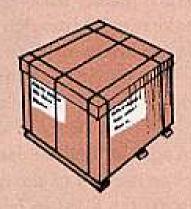
UNSHEATHED CRATES

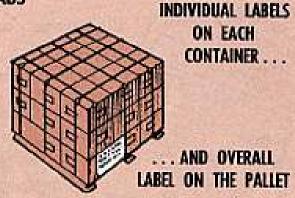
For unsheathed crates, with no available marking space, identity markings can be put on plywood, fiberboard or masonite and nailed to the crate. These boards also can provide space for the shipping address.



PALLETIZED LOADS

Palletized loads made up of a number of items get special treatment. Each individual container on the pallet gets its own identification label—plus address labels for the pallet.





If it's a box-type pallet, with individual containers not visible, identify the group of items with total number on the outside box.

MIXING FSN'S IN A BOX

It's OK to mix FSN's in a shipping container—if it's properly packed and marked.

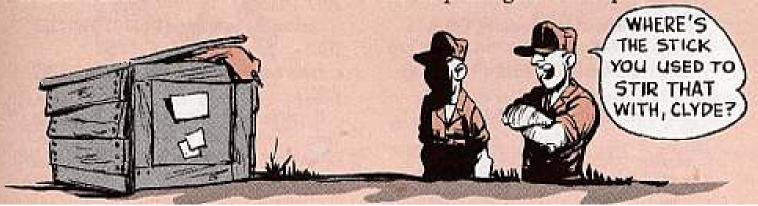
If available, 3 copies of DD Form 1348-1 should be attached to each separate item or container inside the shipping box. Also, each inside item or container should be identified.

Outside, I copy of the DD 1348-1 for each item should be placed in a packing list envelope, FSN 8105-290-4365, and attached to the outside container with a protective cover, FSN 8105-926-2260.

Then the outside container gets marked "CONSOLIDATED PACK" instead of the usual individual item identification.



(If DD 1348-1 is not available, identification of the individual items can be made on plain white paper and included in the packing list envelope.)





BARRELS, TOO

Barrels, drums and pails also get marked (or re-marked) as needed to agree with the contents.





OK HERE

RETROGRADE ADDRESS

Before you attach an address label or tag to cargo going back to "The World," make sure it's completely filled in. All the necessary info should be available-most of it in the message, letter or other directive that told you to move the cargo.

To guard against weather damage and smudge or rub out of the information - overcoat the filled in label (DD tag (DD 1387-1) 1387) or with adhesive.

BEFORE YOU SHIP

Check each outgoing container to make sure:

All old markings that don't apply are OK, HERE painted out.

New markings match the contents in FSN, name and quantity.

Markings (or packing lists) identify contents without need to open the container.

OK, HERE Address tells who sent it, who gets it and any necessary intermediate de-

livery points.

Here's a list of needed marking materials:

Lusterless lacquer (sand-color), FSN 8010-527-3196 (1 Gal).

Lusterless enamel (sand yellow), FSN 8010-291-088? (5 Gal).

Stencil ink, black, FSN 7510-191-6030 (1

Stencil ink, black, FSN-7510-161-0811-()

Gasaline soluble paint, black, FSN 8010-597-8235 (1 Gal).

MARKING MATERIALS

Gasoline soluble paint, white, FSN 8010-597-8238 (1 Gal).

Label adhesive, FSN 8040-053-8452, FSN 8040-656-0814, or FSN 8040-664-7073 (1Gal).

Tags, shipping and stock, FSN 8135-238-6917 (1000).

Packing list envelope, FSN 8105-290-4365 (100).

Protector, packing list, FSN 8105-926-2260 (100).

If you're too far in-country to find these items in supply, with a retrograde date coming up too fast to let you requisition 'em, you can use substitutes.

ACCEPT THESE SUBSTITUTES

Paint (any that contrasts with the container or item) for identification marking. Felt tip pens and grease pencils also may be used.



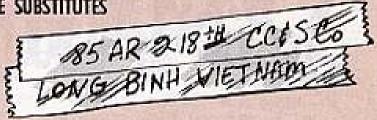
Clear pressure-sensitive tape (nonplaid, that is) is a substitute for adhesive when attaching labels. White or solid color tapes also can provide a place for identification markings with felt tip pen or grease pencil.



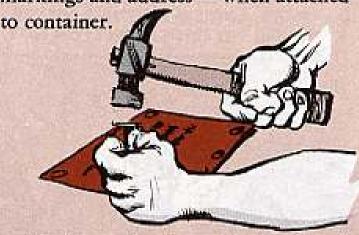
Plain white paper can sub for DD 1348-1 when making packing lists for a "Consolidated Pack." But make sure the identification info is complete.



Pen or pencil can be used to mark labels if protected by clear pressuresensitive tape when no other adhesive is used. (Liquid adhesive might smear 'em.)



Clear (see-through) envelopes may be used as covers for identification markings and address—when attached



Staples and tacks may be used to attach labels or tags to containers—instead of adhesive.

When no stencil brush or roller can be had, a paint brush or wad of cloth dipped in stencil ink or paint can be used for stenciling.

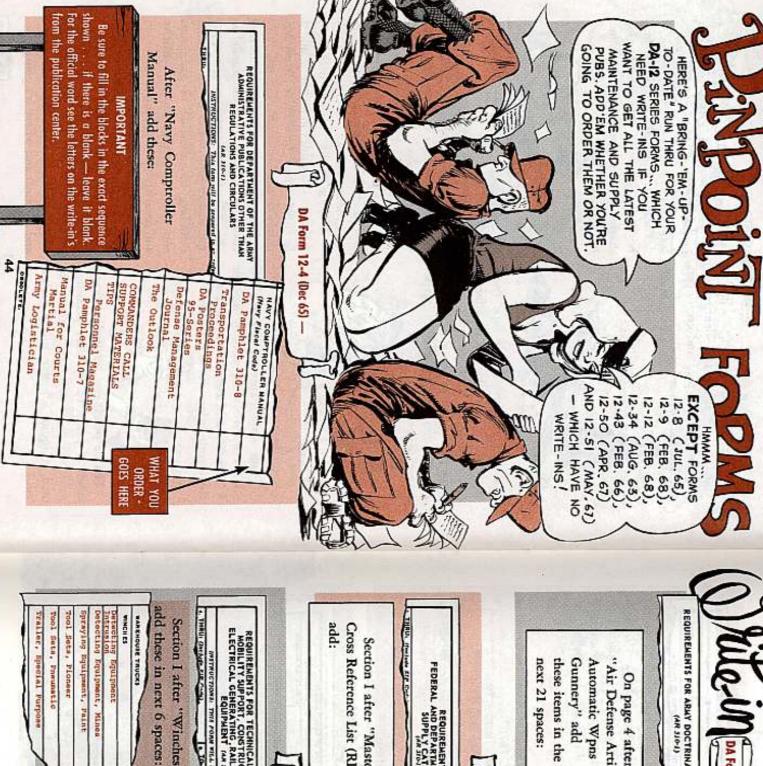
Keep in mind, though, that these make-do substitutes are subs—not to be used when first-choice items are handy or can be ordered in time.

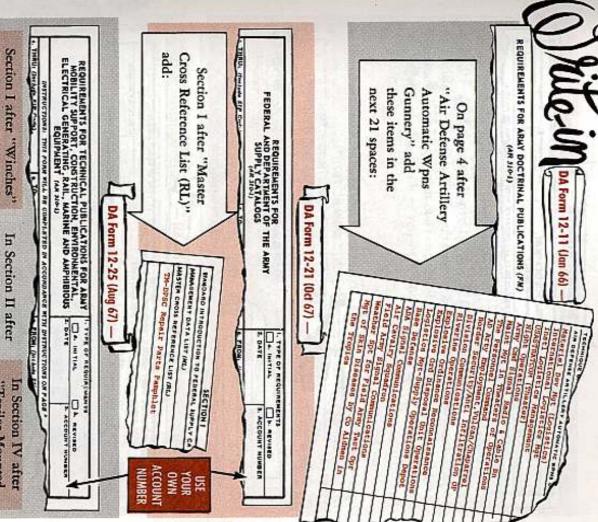
Keep in mind, too, that the markings covered up to now are minimum markings. Some items also may require special-handling marks or precautions, including identification of dangerous materiel (like explosives) or sensitive and security-type equipment.

If you need a full check-out on these, get your mitts on MIL-STD-129, Marking for Shipment and Storage.

The job's better than half done, though, when you can tell at a glance what's inside a carton (by FSN, name and amount) and where it's going.

40







Trailer, Special Purpose

ool Sats, Pasumatic

bol Sets, Pioneer

Paving Dreaker tabilizer, Soil

beteeting Equipment, Mines praying Equipment, Paint

ntrusion Equipment

MHCHES MARKHOUSE TRUCKS

in the next 3 spaces:

Units)" add these items Generator Sets (Power

"Trailer Mounted

in the next 3 spaces:

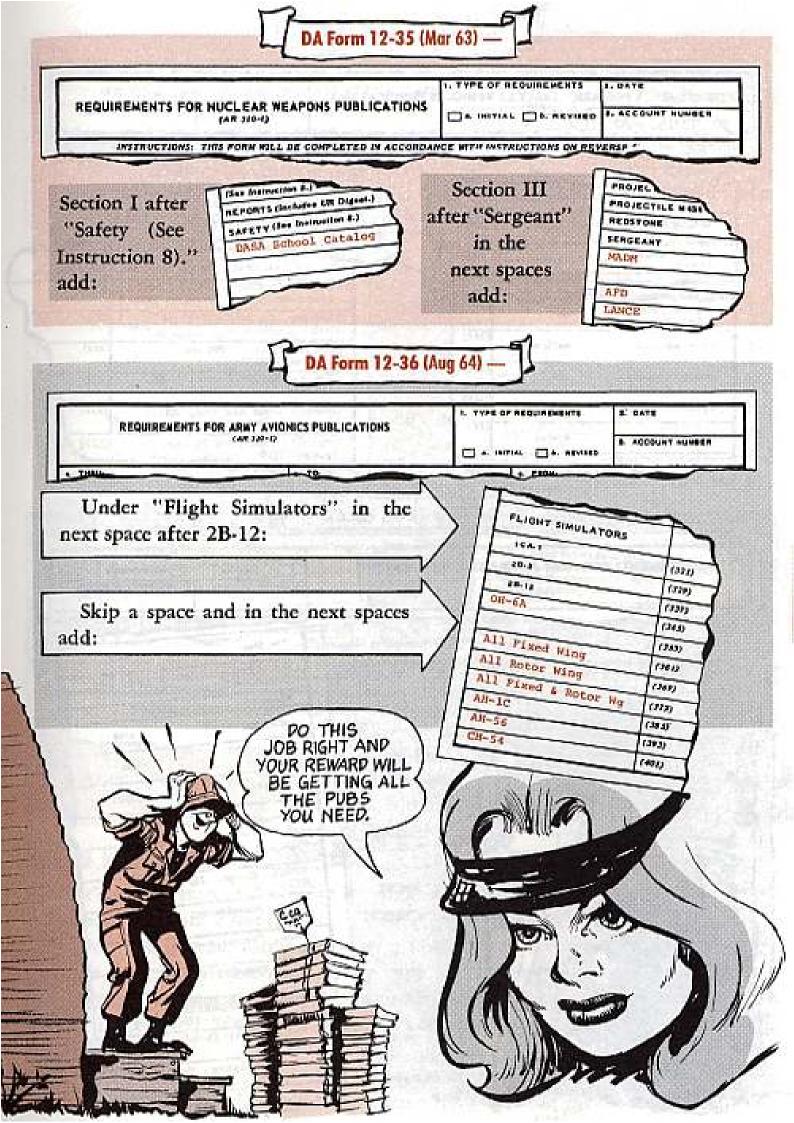
SMITCH DEARS
THAN, ER HOUNTED GENERATOR SE
(Ferry Dales)

stillty Pack, Electric Mil Senerator Test Equipment

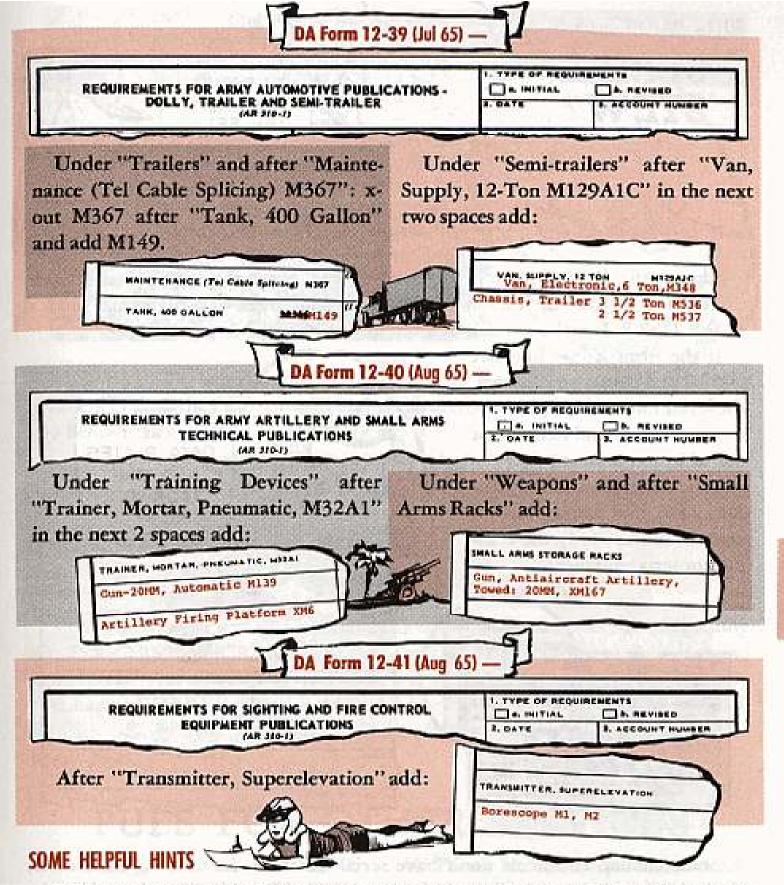
The Education Purs

"Tractors, Wheeled-HEAVY" add these

DA Form 12-31 (Feb 66) —			
REQUIREMENTS FOR ARMY AVIATION PUBLICATIONS For over of this form, see AR 316-1; the properties opency is the Adjutent Germent.		DATE	A ACCOUNT NUMBER
If you have the form that's printed up to date. The form printed in red in 13 Jan 69, and only 2 have been add dated Feb 66, you add these: (it'll be the numbers in parentheses; and ac number):	ncludes all wr ed since then, e easier to ad	l have an ea ite-in items : If you still l d these writ	sy job to bring this authorized through nave the black form tein's if you follow
(33) UH-1C Rotor Wing. (37) AH-1G Rotor Wing. (81) OH-6A. (85) CH-54A. (89) U-21A. ALL FIXED WING ROTOR WING UH-1C	(127) 7.62-MA (131) 40-MM (183) 7.62-MA (187) 7.62-MA (191) Mount, I (195) 7.62-MA (199) 30-MM ((203) 7.62-MA	A MG, XM27E1. Grenade Launch A MG, High Rate A Automatic Gur Multiarmament A Gun, XM41. Gun, XM30.	renade Launcher XM28
DA Form 12-32 (Feb 65) —			
REQUIREMENTS FOR ARMY MISSILE, ROCKET A FIRE DISTRIBUTION SYSTEMS PUBLIC		I. TYPE OF REQUIS A INSTIAL 2. DATE	A. ACCOUNT HUMBER
Section II after "Target Missiles in the next 5 spaces: Target Missiles Target Missiles	ACTOR AND CONTROL OF THE PARTY OF	e after "A	In the next (N/TSQ-51"



DA Form 12-37 (Jul 65) . TYPE OF REQUIREMENTS REQUIREMENTS FOR ARMY TRACKED YEHICLES PUBLICATIONS MITTAL D. HEVISED L DATE I. ACCOUNT NUMBER THIS PART IS PRINTED ON SOME FORMS- IF NOT TO ALL CARRIER, CARGO, TRACKED, & TON (165) ME40, ME40C1 YOUR FORMS ARMORED RECORMAISSANCE XMASS (169) (201) CEZZO COMBAT ENGINEER TIME DEM, XM1631 VEHICLE Gun, Antiaircraft Artillery, SP: Trainer, Conduct-of-Fire, XH35 (205) (Launcher, XM41 & Target, XM42) (177) BULLDOZER, TANK MOUNTING Trainer, Conduct-of-Fire 209) (181) COMMAND POST METT, METTA 1 (213) Tank, Combat: 152MM Gan Launcher, M60A1E2 (145) DRIVER TRAINER Tank Bridge Launcher, AVLB (217) (IAP) FLAME THROWER M132; M132A1 Chassis 20MM AAA Gun, XM741 (221)(193) MIZZAL MORTAR, DI-MM 225 Trainer, Sheridan Weapon System XH40 197. MICH, MICHAE MORTAR, 197-MM DA Form 12-38 (Jul 65) - TYPE OF REQUIREMENTS REQUIREMENTS FOR ARMY AUTOMOTIVE PUBLICATIONS -TRUCKS A INITIAL A MEVINED LOATE ACCOUNT NUMBER (AR 310-1) Von, Shap £220 Van, Expansible, 5 Ton, 6x6, M291A2/M291A2C/M291A2D After "TRUCKS, VAN SHOP M220" add: Freekers -CHAME Under LIGHT MAG "Wreckers" LIGHT Medez after HEDIUM 'Medium See. MEDIUM M543" Truck, Cargo: 14-ton, 4x4, in next Truck, Ambulance: 14-ton, 4x4, spaces: Truck, Cargo; 5-ton, 0x8, Truck, Tractor; S-ton, 8x8, Truck, Van Expansible, 5-ton, 8x8, M791 Truck, Cargo: 14-ton, 6x6, Truck, Ambulance: Frontline, 14-ton, 6x6, M792



It's wise to start at the top of the blank space when you're adding those items because some are 2 lines long.

Once you get your forms up to date it's easier to add those write-in items as they come in or at least keep one master copy of all forms up to date.

Pencil the dates after the DA Form numbers on page 37 of your DA Pamphlet 310-10 (Feb 69). It's easy to erase and add new dates as the old forms are made obsolete.

When you receive your write-in notices from the Publications Center, make sure you send them back within the time limit specified on the form.



Some outfits are making a sloppy "serial stew" out of their equipment records. They fail to cross-check serial numbers with equipment data plates and block 4 of DA 2408-8. It makes a mish-mash of all their records.

If the form is one like DA 2408-7 and covers an end item, the serial number needed is the number for the end item—not one of its components.

When the form is one like DA 2410 and covers only a component, use only the component serial number.



(Some commo end items don't have serial numbers. In these unusual cases, pluck the "control number" from the upper left of DA 2408-8 and put it in the serial number block, too. This becomes the end item serial number from now on — for DA 2408-8 and all other records.)

To make sure you're not in a serial number stew:

- Check the end item data plate and make sure the serial number there matches the one in block 4 of DA 2408-8 (or block 3 of DA 2409 if you have that instead of a -8).
- Next time you make out any other form (like DA 2408-7 or DA 2407, f'rinstance) for the end item, make sure the number in the serial number block matches the one in block 4 of DA 2408-8 (or block 3 of DA 2409).

 Next time you make out a form that covers only a component (like DA 2410, DA 2408-19 and some DA 2408-16's for aircraft), check the serial number against the serial number for the component.

Major blocks that need a checkout are:

BI 1, DA 2408-4.

Bl 2, DA 2407, DA 2408-10, DA 2408-15, DA 2408-17.

Bl 3, DA 2408-5, DA 2408-12, DA 2408-13, DA 2408-14, DA 2408-18 and DA 2409.

Bl 4, DA 2410, DA 2408-7, DA 2408-8, DA 2408-16 and DA 2408-19.

BI 10, DA 2402.

Bl 16, DA 2407 for multiple items.



Make sure those serial numbers come from the right data plate and match the numbers as shown on DA 2408-8, and no inspector can cook up a stew that'll put you behind the 8-ball.

SKIN DECON PAD



Yep. The skin wiping pad in your M13 decontaminating and reimpregnating kit, FSN 4230-907-4828, should fit over three fat, gloved fingers—like it shows in fig 6, TB 3-4230-207-10 (Mar 66). But, if the pad in your M13 kit circles only two fingers, don't bust it trying for a 3-finger loop...you've got a short pad. But, it's OK. Just use your pad like it says in the TB. Later kits will provide 3-finger pads.

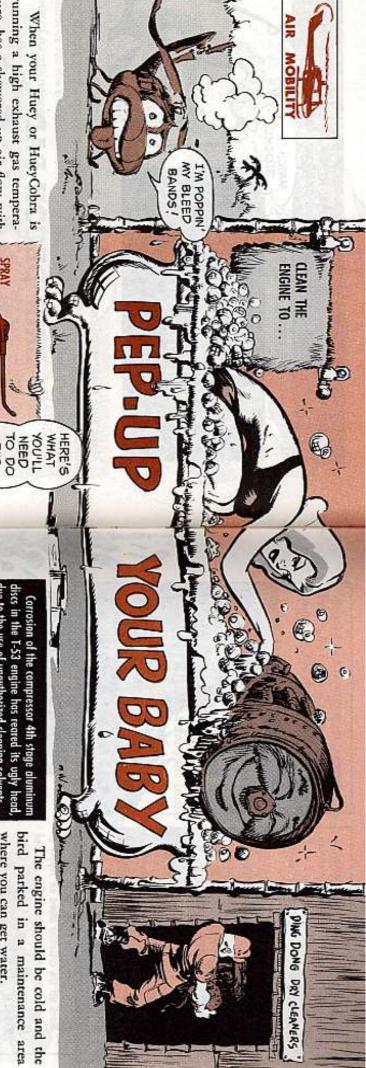
PUBS FOR OTHER SERVICES



You can get info for ordering Navy, Air Force, Marine Corps, and Defense Supply Agency pubs and blank forms in Ch 6 (Jun 66) to AR 310-1 (Mar 62). Sect V of the change lists the addresses as well as the form to use for your requests.

MTOE IS A MUST

Sure you can use AR 725-8 (Oct 68), para 7a(2), to hang on to or request major components that've been pulled from your sets, kits, outfits, etc. But that's just a temporary OK. Your outfit also has to put in an MTOE listing the needed items. Check your local SOP for scoop on MTOE's, and see AR 310-31, Sect IV.



D-680, Type I. under par she needs prescription Rx Pbleed band popping and is generally ture, has a skewered up air flow with running a high exhaust gas tempera-When your Huey or HueyCobra is

your engine to prolong its life, preferred way to clean the innards of solvent followed by a water rinse is the Yessir-e-e-e, a dose of dry cleaning

> FSN 6850-285-8012 55-gal drum Drycleaning Solvent, PD 680, Type

Use one of these cleaners:

to get rid of dirt that coats the stator and One or two cleanings are guaranteed



FSN 5350-050-1094 50-lb bag Walnut shells, MIL-G-5634

compressor blades and to restore lost engine power.

over and run the engine, and the suction developed will snatch dropped items. stash pencils, pens, matches, watches - any loose items. You're going to motor You know what that means . . . FOD for real! Before you crewchiefs and mechanics reach for the solvent, tho, be sure you

> due to the use of unauthorized cleaning solvents. discs in the T-53 engine has reared its ugly head 25769 or MIL-C-22543 to clean a T-53 engine. Corrosion of the compressor 4th stage aluminum NEVER use solvents such as Turco 4217, MIL-C-

THE

GATHER MATERIALS

T53-L-11 engine-Here's how to go about cleaning the

cleaning solvent. First off, latch on to a quart of dry

or C tool kit. the organizational maintenance A, B, the pneumatic oil gun which is part of pressure handy pour the solvent into If you're lucky enough to have air

general mechanic's tool kit in hand, sure it's empty and clean. Pour the solmake for the bird. Take a couple of able to spray 1 quart. With your trusty vent into the extinguisher so you'll be pumped water fire extinguisher. Make helpers with you. Out in the dusty boonies get a hand-

where you can get water. bird parked in a maintenance area The engine should be cold and the

OPEN 'ER UP

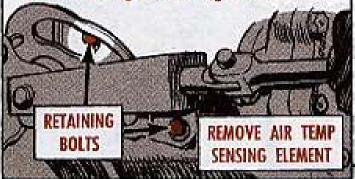




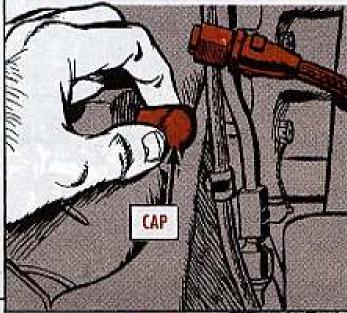


No shortcuts here, please! Like — never try to clean the engine by spraying the engine with the separator on. If you do, you'll wash the dirt in the separator right into the engine (ugh!).

Next, take the inlet air temperature sensing element off the inlet housing by removing the four retaining bolts. You do this to keep the element from getting plugged with dirt loosened during the cleaning chore.



Block off the customer bleed air supply at the customer airbleed port in the airbleed adapter assembly by using Cover, FSN 2840-980-9423. Disconnect the pressure line from the airbleed actuator so the line won't get plugged with loosened dirt. Put an AN929-6 cap on the fitting.





SPRAY WITH SOLVENT

Have your buddy motor over the engine with the starter.

Spray the quart of the dry cleaning solvent evenly thru all sections of the inlet. Be sure both sides of the inlet guide vanes are covered with the solvent.



When the solvent is used up stop motoring the engine and let it set for an hour or so to allow the solvent to soften and loosen the caked-on dirt.

The dirt really builds up on inlet guide vanes, so go over them with a small, round, fiber brush with a long handle when you return from your break.

SPRAY WITH WATER

Have your favorite throttle jockey start the engine and run it at flight idle. To get rid of the dirt loosened by the dry cleaning solvent, spray clean, fresh water evenly into all sections of the inlet housing at a rate of 2 gallons per minute for about 2 minutes.

After the water treatment run the engine from 2 to 5 minutes to dry it out. Shut down the engine.

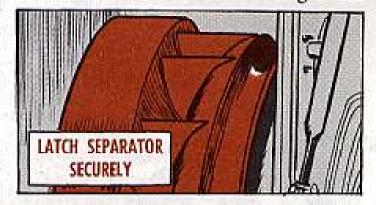
Eye the inlet guide vanes and compressor for cleanliness. If the engine is still dirty, a second cleaning should do the trick.

Clean the air temperature sensing element with dry cleaning solvent and put it back on the inlet housing. Secure the nuts and lockwire the mounting bolts,

Remove the cap from the fitting and connect the pressure line at the air-bleed actuator.

Put the separator and screen filters back.

Close the cowlings, and your bird's ready to take to the wild blue with new pep, vim and vigor.





IT'S WHAT'S UP FRONT THAT COUNTS!



The view from the front reveals more than the view from the back.

The old tail rotor crosshead bearings in your Huey and HueyCobra are no exception. The front side shows more of the ball bearings than the back side.

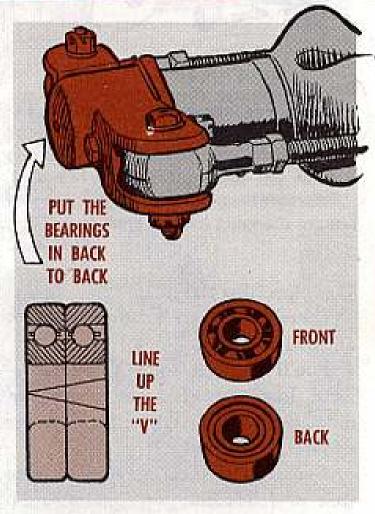
If you don't know which is which the 2 bearings can be put together basackwards. Put in that way you have maybe an hour or less flying time before the bearing set fails, followed by the tail rotor.

The bird organizational maintenance pub tells you to put the bearings together back-to-back, see?

As an additional guide the bearings are etched to form a "V" when they're back-to-back. A look at the part numbers will also clue you which bearing set is being used.

If you're lucky enough to have the new crosshead bearing, P/N 204-011-769-1, FSN 3110-135-0563, there's no chance of a mixup.

This baby has a double row, inner



race with a single outer race. Both sides are the same so there's no front and back . . . no "V" etch needed.

Just put the 2-piece bearing set together and you're in the tail rotor assembly business.

YOU BE THE



Dear Windy,

cess — for the allowable play in the Huey ink rod-end bearing, FSN 3110-:73-5072. (UH-ID/H) droop compensator connecting What are the limits, Windy, which would I've looked high and low-without suc-

require changing the rod end? SP6 R. McC

Dear Specialist R. McC.,

allowed any play. There're no limits because you're not

check . . . no sweat! mitts on the link during a looseness ment, however, when you plant your You'll still get some slight move-

nands. you'll have a very loose link on your lack of lubrication or contamination 'Course, if the bearing is worn from

change. conditions which call for a bearing lists "excessive looseness" as one of the Para 25 of TM 55-405-3 (12 Jul 66)











WHEN ... YOU GET NEW EQUIPMEN

FOR PINPOINT SHOULD SEND IN A REVISED FORM PRONTO

GOT AN AG PUB ACCOUNT

EVERY OUTFIT THAT'S FACT IS

... OR IF YOUR ACTIVITY NO TYPES ... OR YOU CHANGE YOUR YOU NOW SUPPORT DIFFERENT THAT CHANGES YOUR TOE - OR

LONGER NEEDS AVIATION

PUBS...



DA PAM 310-10 (FEB, '69). I BEEN REVIEWIN TWICE-A-YEAR TABLE 3 OF THE NOW LOOK, WINDY. MY PUB NEEDS COULD DO IT CHANGE YOU WAY THINGS AT LEAS BUT THE TWICE ...

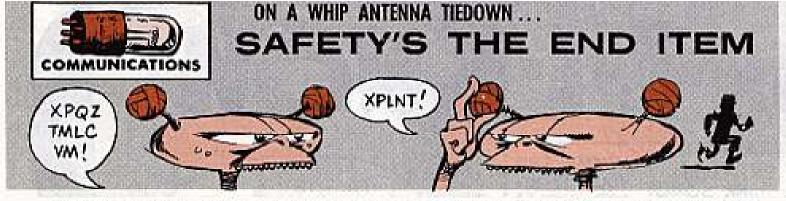
> CAUGHT UP WITH YOU WONDER WE'RE THO'T PUBS SORTA HURTIN FOR PUBS APPRESS ... NO FROM YOUR OLD AND I ALWAYS GEE ...

ONCE A

MONTH

DA Form 12-31

COLUMN TOTAL OLD MITTELLI STATEMENT STATEMENT



A tied-down radio antenna can meet the official requirements, pass every test, but still—

Still, it can play a part in some entirely unexpected accidents, like maybe the antenna tip in a Joe's face, or eyeball.

Man doesn't have to be a brain-trust to figure out that accidental sort of antenna-tipping won't be doin' anybody's cyeball or face any good.

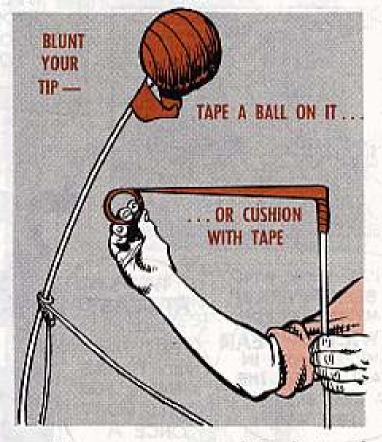
So it takes a little somethin' to make that tied-down antenna safer.

Like a rubber ball, or a plastic ball. Or a plastic cushion you can build for yourself, right on the antenna.

If you use a ball, you'll have to scrounge one up yourself.

But you can go after a 30-foot roll of polyethylene electrical insulation tape with FSN 5970-240-0620. It's listed on Pg 3.44 of Fed Cat C5970-IL-A (Nov 69).

Just wrap the sape asound the antenna tip, stretching the tape as you go. Keep this up until you get a comfy cushion of the soft stuff.



If you use the rubber-ball method, you could wrap tape around the ball and anchor the ball with the tape a little below its bottom.

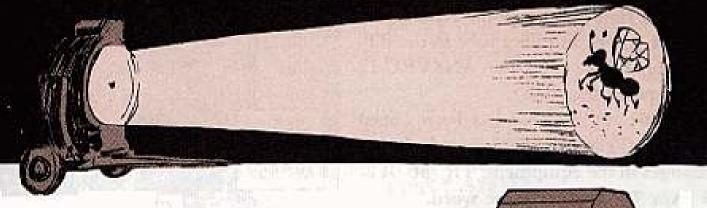
The extra protection should whittle down the chances of some unhappy Joe getting his eyeball skewered by a stray antenna tip—and it won't interfere with the performance of your antenna.

Further along the sunny side, if you're using the MS-118A mast section you're in luck. You can request an antenna tip assembly (FSN 5985-930-7223) for the MS-118A. It's listed on Pg 74, Fed Cat C5985-IL-A (Nov 69).

And for bright times in the future, there's a plan in the mill to authorize protective antenna tip assemblies for the AT-1095/VRC antenna element.

Meanwhile, you can use a ball, insulating tape, fishing corks, bottle stoppers, styrofoam and other non-conductive items, as field expedients.

SEARCHLIGHT BUGGED BY BUGS?



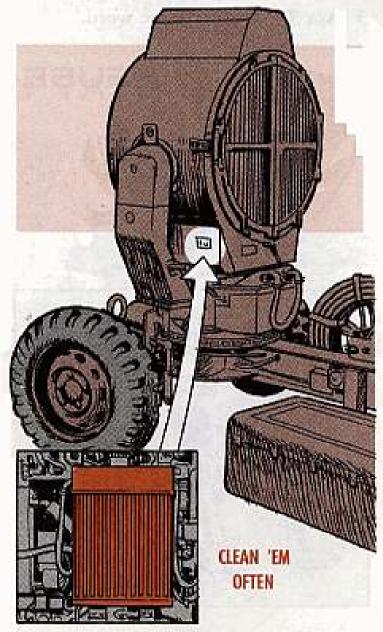
Insects —? They can mean bad times sometimes—especially when they zoom around an AN/TVS-3 searchlight set and end up in the fan motor.

They can clog the exhaust blower filter and the heat exchanger cooling fins. That can knock out your searchlight pronto.

What's the answer —?

TM 11-6230-220-12 (Dec 67) gives you the word on daily cleaning of the exhaust blower filter and heat exchanger cooling fins. Eyeball Para 4-4 for instructions on blower filter PM. Paras 4-4 and 4-6 for info on exchanger cooling fins, and Para 5-3 for servicing the exchanger.

And if you're in an area where flying insects and miscellaneous crud are really buggin' that searchlight, just add extra cleanings and inspections, as many as you need to do the job.



SAFETY STRAP

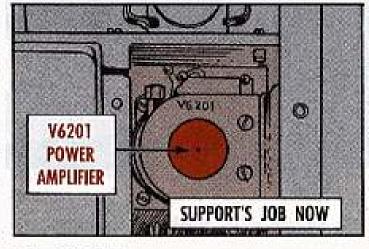


Order any waist size LC-23 Lineman's Belt and it includes the Safety Strap. If you just need the strap, though, look up: Strap, Safety Industrial in SC 4230/40-IL (Jul 67). FSN 4240-203-3825 is leather . . . 4240-752-9715 is nylon.

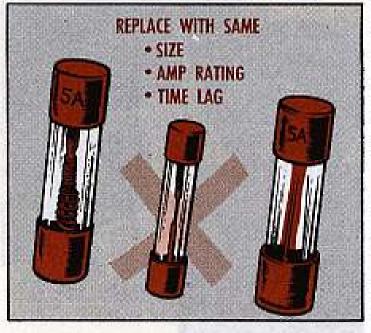
VRC-12 PA TUBE NEWS

Next time you've gotta replace the V6201 power amplifier tube in the RT-246 or RT-524 of the AN/VRC-12 series radio sets, don't.

V6201 replacement has been upped to direct support because of design changes in the equipment. TB 750-911-3 (Apr 70) will have the word.







USE NEWS

Don't sweat it if the replacement fuse you asked for comes through with a higher voltage rating than what you wanted. Use it.

The thing you gotta be sure of is that the amperage rating is what your TM calls for and the voltage rating is the same or higher. Like, if you need a 5amp job and you get a 10-amp replacement, send it back. The amp rating can't vary; neither can the blow time. You need a slo-blo for a slo-blo, etc.

Naturally, any replacement you get has gotta be the same shape and size as the one's it's replacing.

But like we said, voltage variance is allowable . . . providing it varies upwards.

CAP AND CONTACT

Now receive this well and watchfully, you AN/PRC-10 radio-set types . . . you can get the dial lamp caps with the contact springs inside the caps.

If you're not getting the cap and spring with FSN 5820-248-9139 as you see it on Pg 8, TM 11-5820-292-20P (May 69), take a crack at FSN 5820-717-7498, which should get you the whole cap assembly.



WESTERN

CABLE COMMENT

WESTERN ONION WHEN YOU CARE ENOUGH TO SEND THE VERY BEST

REPAIR? SENDIN' CX-4245/G CABLE ASSEMBLY TO SUPPORT FOR USED ON THE COMBAT INTER-AREA COMMUNICATIONS SYSTEM. BE SURE TO INCLUDE THE CLAMPS, EVEN IF THEY'VE BEEN KNOCKED OFF. COULD BE DEADLINED A SPELL, SINCE OTHERWISE, THE CABLE ASSEMBLY THE SUPPLY SYSTEM. THERE'S NO STOCK OF CLAMPS IN

THEY'LL DO YA' DIRT



Sand and dust and dirt . . . they're the Things that hurt . . .

... hurt the TT-98()/FG and TT-76()/GGC teletypewriter units that help make up the AN/VRG-29 radio teletypewriter set in tracked vehicles like the M113 personnel carrier and the M577 command track.

Be sure the dust covers are installed and protecting your teletypewriters when they're not in use. This is 'specially important while the vehicle is moving and the dust clouds are gathering.

Otherwise, dust and dirt and whathave-you will really have a field-day grinding along with the gears and bearings of your TT's.



EVERY LITTLE PIECE HELPS

A screw taken from a TT-4()/TG teletypewriter set . . .

Maybe a gasket from the M-80/U dynamic microphone . . .

Possibly some component of the AN/ VRC-12 series of radio sets . . .

Thing is, whenever you remove any part — either for repair or exploratory reasons — and end up sending your equipment to support, one rule holds:

Send along any gaskets, screws, nuts, bolts, etc. that were removed from the equipment.

Put 'em in an envelope, tie 'em on, tape 'em on—any way to make sure they make it to the support shop together with the end item.

That way, support won't be in the predicament of repairing the equipment's known miseries, then running into a situation where a piece of missing hardware costs a lot of extra downtime.

Sometimes, there might not even be a stock number available for the piece that's missing from the equipment.



This could mean a few complications and holdups, like higher-level fabrication, for example.



A copyholder, f'rinstance, for your teletypewriter can't be ordered as an assembly because it has no overall stock number. It's gotta be broken down and ordered by its individual parts.

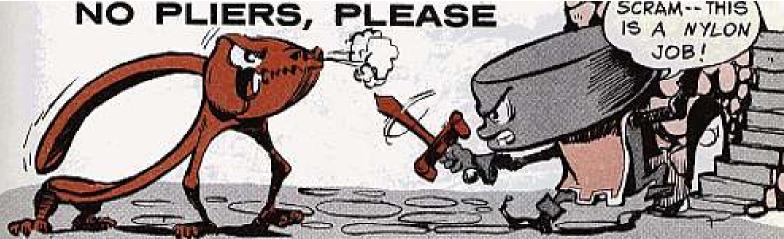
Takes time. So, you'd definitely include any removed copyholder with the teletypewriter you send to support.

Make it a special point to send support all the parts you have—even if they seem bad. In some cases they may be usable.

'Course, small parts do sometimes get lost in the field or on maneuvers, and there's not much you can do about that except be careful.

But when it comes to hangin' onto regular removed parts, and sendin' 'em to support along with your end equipment, that's where you can be real careful.

And that's where it counts.

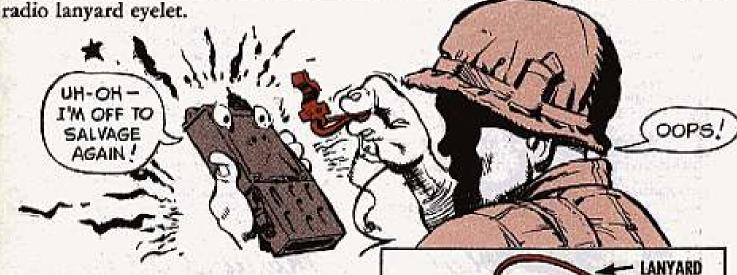


Pliers . . .? They're strictly taboo on nickel-cadmium batteries. Never use 'em. Tightening those metal plier jaws on the cell filler vent caps could cause the caps to crack. Use the nylon wrench that's issued with the battery; it's FSN 5120-059-4876 on Pg 3.312 of Fed Cat C5120-IL-A (Jan 69), if you need one.

LANYARD LAMENT

For the want of an eye the chassis was lost.

No poet wrote it. That's a straight PM fact, taken from the pen which wrote the last DA Form 2407 work request on an AN/PRR-9, AN/PRT-4 squad



EYELET

SNAP

Some Joes force the lanyard snap through the cyclet on the receiver or transmitter cases instead of looping the lanyard cord through the cyclets. Result, regularly, is that the cyclet breaks off.

Follow-up result: the whole chassis, or case, must be salvaged because the eyelet can't be repaired.

'Nother method of breaking the eyelet is swinging the receiver or transmitter by the lanyard.

So-o-o-o, keep the snap end of the lanyard away from the eyelet . . . and swing your partner.

...



TM 9-1025-200-12 C5, Nov. M114A1

This is a selected first of recent pubs of interest to arganizational maintenance personnel. This list is compiled from recent AG Distribution Centers Buffelius. For complete details see DA Pam 310-4 (Jun 69), and Ch 2 (Oct 69), TM's, TB's, etc.; DA Pam 310-6 (Jul 69), and Ch 1 (Oct 69), SC's and SM's; DA Pam 310-7 (Sep 69), MWO's and DA Pam 310-9 (Apr 68), COMSEC Fabs.

TECHNICAL MANUALS

TM 5-2420-206-20P, Oct, Medium Wheeled Tractors. TM 5-3740-208-23P, Oct, 40 GPH Fog Insecticide Sprayer GED Skid Mtd. TM 5-3805-210-20P, Sep, Graders. TM 5-3820-230-20P, Oct. 220 Lb 3 Wheel Proum Drill. TM 5-3830-236-12, Oct. Tractor Mounting Treedozer. TM 5-4120-296-13, Sep. 18,000 BTU TM 5-4320-250-20P, Oct, Centrif Pumpi Skid Mtd GED POL. TM 5-4520-204-20P, Oct. 50,000 BTU Space Heater. TM 5-6630-200-25P, Oct. Pershing. TM 9-1005-229-12, Oct. M3 M3A1 .45 Cal Submachine Gun. TM 9-1005-286-20 and -20P, Nov. XM167 20-MM Towed AA Gun. TM 9-1005-299-12, Sep, Armoment Subsys XM35 for AH-1G.

155-MM Howitzer TM 9-1300-203/3, Sep. Arty Ammo. TM 9-1425-399-25, Oct, Pershing. TM 9-1430-268-15P/1, Oct. Nike-Herc. TM 9-1430-503-25P, Aug. AN/MPQ-34 Rador Set. TM 9-1440-250-215P/3/1, Sep, Launch Set Control-Ind C-2620B/TSW C-7590/TSW and C-7590A/TSW. TM 9-1440-500-25P, Aug, Hawk Louncher. TM 9-2350-230-25P/2, Sep, M551 Sheridan. TM 9-4935-385-20P, Oct, Pershing. TM 9-4935-501-25P, Aug, Hawk. TM 9-6650-212-12, Oct. Observation Telescope. TM 9-6920-378-20P, Nov, Pershing. TM 9-8140-375-20P, Oct. Pershing. TM 10-500-5 C2, Oct, Airdrop from C-7A (Caribou). TM 10-500-21, Aug, Rigging Full Tracked Tractons. TM 10-3930-231-20P, Sep, 4,000 Lb Cop GED Forkills. TM 11-621 CP, Nov. AN/GRC-41 TM 11-5820-202-10 C7, Nov. AN/

TM 11-5820-498-12 C2, Oct, AN/

GRC-125 AN/YRC-53 OA-3633/GRC

TM 11-5820-727-12, Sep. AN/TRC-

GRC-26 Radio.

132 Radio Term Set.

TM 11-5895-453-15 C1, Sep. AN/ MRC-69 Rodio Set. TM 55-1940-219-14, Sep. 17 Pt Fiberglass Air Driven Boat.

MODIFICATION WORK ORDERS

9-1190-205-40/1, Nov. Honest John. 9-1240-236-30/1, Dec. Panaromic Telescope. 9-1430-251-30/43, Nov, AN/MSA-190 AN/MSQ-61A AN/MSQ-91 and AN/MSQ-93 Dir Sto for Nike-Herc. 9-2350-217-30/17, Nov, 155-MM SP 11-5820-469-50/1, Oct. AN/TRC-80 Radio Term. 55-1520-211-30/31, Dec. UH-18, UH-1C. 55-1520-214-30/29, Dec, OH-6. 55-1520-221-20/10, Dec, AH-1G. 55-1520-221-30/20, Nov, AH-1G. 55-1520-228-30/2, Jan, OH-58A; URGENT. 55-1680-255-30/1, Nov. OV-1.

MISCELLANEOUS

AR 385-40, Oct, Safety.
SC 3431-97-CL-E03, Aug. Trailer Mtd
Welding Shop.
SC 4935-95-CL-A58, Sep. Guided
Missile Tool Kils Lance.
SC 5180-91-CL-R47, Sep. TK-1860/
FRC-81 (V) Electronic Tool Kil.

New Fifth Wheel

Have the locking dogs on the fifth wheels of your 5-ton tactical truck tractor been breaking? No sweat. Order the new sturdier fifth wheel assembly under FSN 2510-809-7791 using RIC B24. You'll still order fifth wheel assembly, FSN 2510-736-7608 for use on your 2½-ton tractors.

87 A'S Are Here

Change 3 (27 Oct 69) to TM 9-1005-249-12 gives you the scoop on the XM15 blank firing attachment (FSN 1005-921-5481) used with the M16A1 rifle.

Multifuel Oil Check

Instructions for checking the crankcase oil level in your 2½-ton or 5-ton multifuel engine truck are in TB 750-981-3 (Jul 69), page 43, Article 3-8. The same info appeared in PS 205, page 54, and will be reflected in changes to TM 9-2320-209-10 and TM 9-2320-211-10.

New Records AR

For the scoop on setting up and getting rid of supply and maintenance records you need AR 340-2 (Sep 69). It supersedes AR 345-215.



Ammo Loading

As any sharp tanker can tell you . . . ammo with primer installed is unpacked, carried to and loaded into the tank — primer end up. That way, if the round's dropped, its tail's not likely to smack any sharp object that could set it off. See FM 17-12 (Nov 64), para 253. And, scratch the fuze-end first info in PS 202, page 17.

ECC'S Come to AR 735-35

All property book page makers should add the new 2-letter equipment category codes in front of each SB 700-20 LIN entry as of right now. This is the word put out in DA message DCSLOG-SPPD 102304Z Dec 69 telling you to add this info to para 3-2c(1)(g) in AR 735-35. DA Cir 750-29 (9 May 69) lists the ECC's you need.

Shrinking BUL

Don't look for a big load of tools in new engineer-type equipment manuals from now on. Basic issue items lists (BIIL) are being abbreviated, because 'most any repair means a trip to the shop anyway. Besides, it saves weight and money — including the operator's cash that might go for statements of charges on lost tools.

New Mike Switch

Huey (UH-1D/H) maintenance types — the floor mike switch needed by door gunners to communicate, when they have their hands full, is here. Step on it? Schedule MWO 55-1520-210-30/27 (16 Dec 69) for your sharpshooters. MWO 55-1520-211-30/31 (22 Dec 69) puts the mike switch in your UH-1B, C models.

Let George Do It

There's no need for you mechs to go thru the mumbo jumbo of an acid test on metal particles from a chopper gear box.

You might even get your fingers burned!

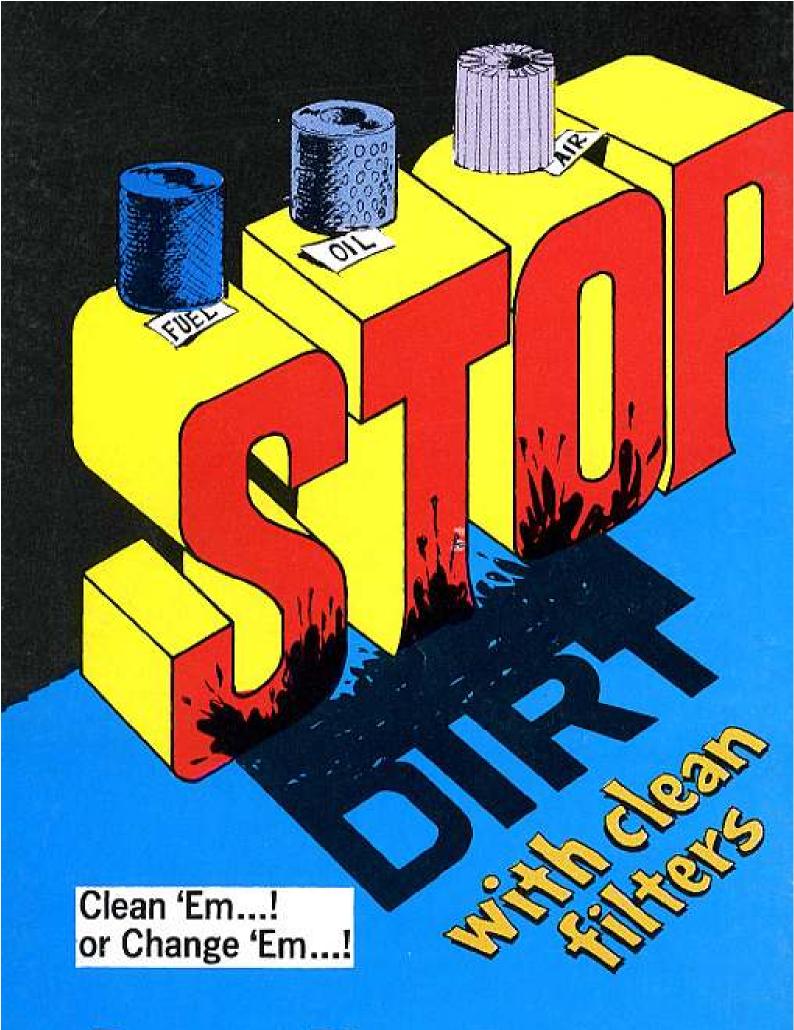
To find out if the part is OK make the "eye" and "feel" test of particles found on the chip detector plug; as called out in the bird organizational maintenance pub.

Oil analysis by the ASOAP labs listed in Ch 4 (Mar 69) to TB 55-6650-300-15, will give you a scientific reading on the gear box.

Rifle Bracket Mount

Now you can get the instructions for mounting the rifle bracket mounting kit, FSN 2590-045-9611, for M14 or M16 rifle on construction equipment. TB 750-246 (Aug 69) has the dope.

Would Von State Vour Life high now



Protect Your Equipment