

# NEED unilla allilla ellilla die

Inspection got you down?
Readiness reports got you caged?
You get gigs for things you didn't know about? Maintenance problems? Supply problems?



Solution: Call in MAIT (Maintenance Assistance and Instruction Team). MAIT is on your post or in your Division or command to help you keep your equipment combat ready. They're there to help . . . never hinder.



MAIT does not inspect. They'll assist and instruct; that's their name. And, when they find things about your equipment, your records, your PLL or whatever that



needs a boost, they'll tell you what's wrong, how to fix it up . . . even lend a hand.



Call MAIT. They're in the phone book.



They're your friends, and they are there to help you.





Published by the Department of the Army for the information of all soldiers assigned to combat and combat support units, and all soldiers with organizational maintenance and supply duties.

Within limits of availability, older issues may be obtained direct from Editor, PS Magazine, c/o US Army Maintenance Management Center, Lexington, KY 40511.

**ISSUE No. 292 MARCH 1977** 

FIREPOWER			2-17
BYOIM85 MG	2-15	Chaparral	16,17

GROUND M	OBILIT	Υ	18-27
POL Tanker	18-21	Tarp Tie-down	26
Tie-down Kit	22-23	Gama Goat	27
5-Ton Wrecker	· 24-25	Tractor Truck Tip	27
		M870 Semitrailer	27

AIR MOBILITY 37-47				
Huey	37,40	Commercial Pubs	40	
New Tail Rotor		Connector Adapter	41	
Assy	38-39	MWO Update	41	
Cobra	39	M-693/A Maint		
FOD	40	Vi+	12.17	

EFECIKOIAICS		70-33		
	AN/VRC-12	48-51	AN/PVS-5 Goggles	53
	AN/GRC-106	52	RC-292 Antenna	53
	AN/GRC-103	52	Cable Rings	54
	AB-652 Antenna	53	CE-11 Reel	54
			AN/MPQ-4A	55

#### COMBAT SUPPORT

ELECTRONICS

New Publications	28	M17 Mask	60-61
Keep Your Cool	29-36	Toolroom Tech-	
60-KW DED		niques	62-63
Generator	56-58	Hand Tool Replac	e-
5-KW Generator	59	ments	64

P	S wants your ideas and contribu-
- 11	ions and is glad to answer you
q	vestions. Name and address are
k	ept in confidence. Just write to
c	or call: AUTOVON 745-3503

MSG Half-Mast PS Magazine Lexington, KY 40511

Use of funds for printing of this publication has been approved by Headquarters, Department of the Army, 23 December 1975 in accordance with AR 310-1.

DISTRIBUTION: In accordance with requirements submitted on DA Form 12-5.





Here's the best way to beat the barrel rust and carbon hex: After firing, clean the bore with RBC, wipe dry . . . then add a light coat of LSA. Just before firing, run a patch thru a couple of times. The bore should be dry to stop carbon build up and stop the big bang caused by the increased chamber pressure due to the oil in the bore.

BARREL LOCKING LUGS— Cracked, missing, broken, worn, chipped.

BARREL LATCH SLOT—Damaged, worn.

Keep those 2 barrel bearing surfaces smooth. Your M85 will last longer—and you'll be more apt to hit your target

Never use abrasives like steel wool, emery, crocus cloth, or felt wheel on the bearings. You'll scratch 'em and scratches are dirt traps. That means more wear 'n' tear. Carbon removing compound and cleaning rags will do a bang-up job on the bearings

Busted or missing barrel locking lugs 'II stop-fire your M85 quick-like. Here're 2 dandy sure cures: (1) PI—Preventive Inspection—before you assemble it, and (2) PM—Preventive Maintenance—while you're handling it. Never toss the barrel assembly onto the rack, or use the locking lug end as a hammer.



BACK PLATE ASSEMBLY— Parts loose, missing, rusty, cracked, dirty.

FIRING RATE SELECTOR—Won't hold in either "H" or "L" positions.

LATCH AND LOCK— Won't work right.

STRIKER—Won't turn when you move the firing rate selector.

QUICK RELEASE PINS—Ball detents missing, damaged.

PAY

HEED T

TRIGGER EXTENSION
ASSEMBLY— Extension
hook bent, cracked;
chain links broken;
worn, rusty.

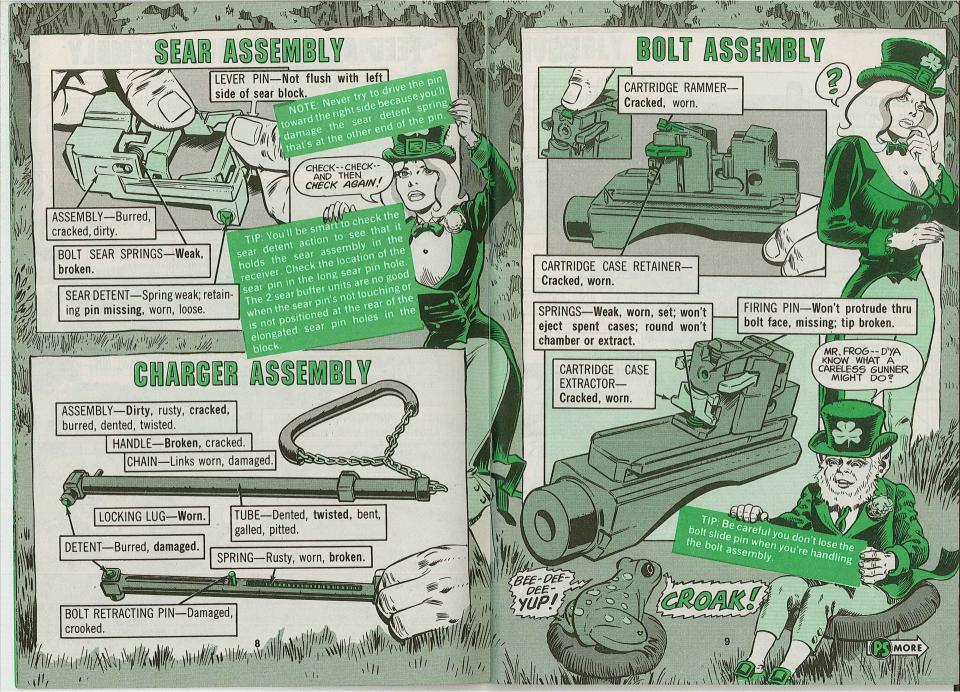
SOLENOID—Plunger and striker springs weak, sluggish.

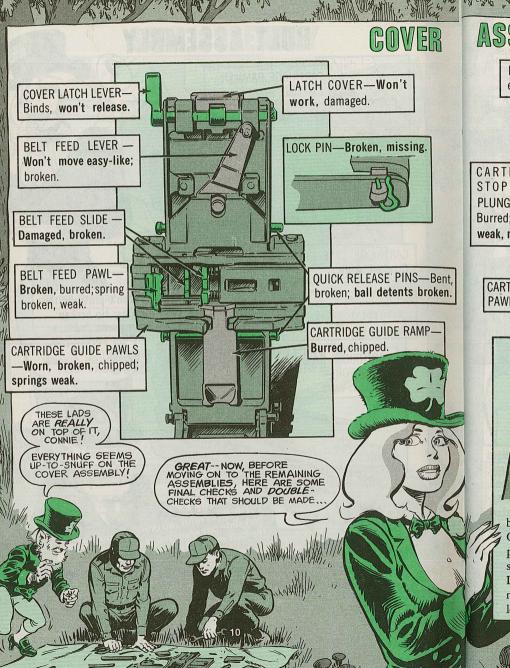
Hold it! You never oil the solenoid and never use any drycleaning solvent or RBC on it. All you do is wipe the grease and dirt off with a dry, clean lint-free cloth

TIP: Check out the time delay cylinder like so: Rotate it with your thumb ... let it go ... and listen for a definite click! You never make any adjustments on the cylinder—that's strictly a DS job.

MORE

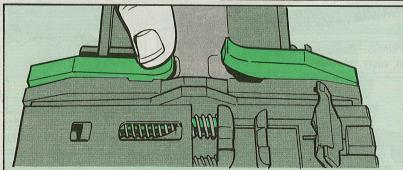








FEED SLIDE GUIDE—Damaged. edges chipped, burred. GUIDE SPRING PINS- Bent, burred; springs weak, broken. CARTRIDGE STOP PAWL kinked. PLUNGER-Burred: spring weak, missing. CARTRIDGE STOP CARTRIDGE LINK STRIPPER— PAWL—Burred. Burred; pins missing, damaged;



by turning and releasing the lever. Check the spring action when you when you let go the lever. press down on the belt feed pawl, link Doublecheck the belt feed slide lever to see that the cartridge stop are supposed to be held.

Be sure the cover latch action is OK pawl goes down like it's supposed to. All parts must return quick-like

springs weak, broken.

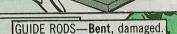
Remember to give the detent pawl stripper and the 2 cartridge pawls. notches a good once-over. If they're too worn, the cover assembly won't movement and move the belt feed hold in the open position like the parts



LOCKING SURFACES—Cracked, chipped, burred.

INTERLOCK—Cracked, chipped, bent, burred, damaged. Won't return to its original position for any reason.

BARREL EXTENSION—Cracked, pitted, burred, rusty, dirty, galled, chipped, chrome flaking.



Keep a real sharp eye on those retaining pins holding the 2 rod assemblies in the barrel extension. If you press in on the rods, the pins might drop out and get lost. But, if the pins drop out by themselves, it means the return springs are NO GOOD and need replacing by DS.

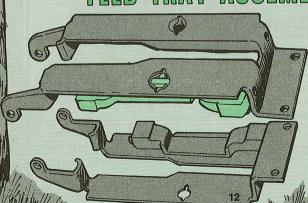
CARE IN

THESE

AREAS.

SPRINGS—Weak, broken, kinked, set, rusty, missing.

# FEED TRAY ASSEMBLY



ASSEMBLY—Bent, edges burred; link guide burred; link guide plunger chipped, burred; spring weak, missing; dirty, rusty, twisted. Link guide assembly loose.

# ACCELERATOR ASSEMBLY

worn;

ACCELERATOR—Cracked, pins damaged, bent, worn.

BARREL LATCH—Won't work right.

The accelerator plunger must move. Check it by pressing the accelerator rearward with your hand. Everything must pop back, when you let go.

Be mighty careful not to lose the accelerator pin or either of the accelerator plunger retaining pins. Too much tilting and shaking will cause 'em to drop out. Play it cool—never push in on the accelerator more 'n you have to. Your armorer can stake the 2 little pins in place, so let him know if they're dropping out.

COVER DETENT— Pawl worn; springs weak, kinked, broken; pin burred, bent.

BARREL LATCH LOCK—Burred, chipped; pin bent, worn.

ACCELERATOR PLUNGER— Chipped, burred; springs weak, broken; pin missing, bent, burred.

HOUSING—Damaged, edges rough; won't fit.

# RECEIVER GROUP ASSEMBLY

SAFETY—Housing loose, cracked; screw damaged, threads stripped; plunger bent, broken, burred; spring weak, broken, kinked; pin missing.

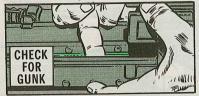


Always check the safety for positive engagement with the sear while the weapon's assembled. Remember—you never charge your M85 while it's in the S position. The safety must be in the F position before charging or firing.

\_13



Look for stuff like carbon, rust, galling, grease, mud and the like on the barrel bearing surfaces inside the barrel support.



When you clean 'em off, tho, be careful you don't change the critical dimensions and finishes. Remember that the larger these inside bearings are, the greater will be the whip. (This range! is just the opposite of the bearings on the outside of the barrel. The smaller. the outside bearings, the greater the whip.)

The wrong kind of PM on these bearings surfaces could make you miss

vour target.

When putting the barrel together, take it easy and make sure the arrows line up. On the latest models, the arrows are missing. So, line up the notches on the barrel and jacket. Don't forget to retract the bolt about an inch when adding the barrel. Listen for a definite CLICK!

If there's no CLICK, the barrel could the first round over the belt holding go down range when you fire the first round. So-o-o-o, check for click before you pull the trigger.

Now, just before you fire, give the barrel a little extra right 'n' left twist to be double sure it's locked tight.

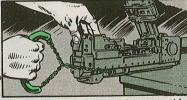
Loose rivets? Don't worry about 'em unless you see movement between the side plates, bottom plate or barrel support.

Also, don't fret if you can squeeze a bit of oil from between the receiver

Here's something to watch for real careful-like: See that the barrel latch and lock won't bind for lack of lube. They should move free 'n' easy. Of course, you want to be sure you have a positive lock of the barrel in the receiver. Otherwise, you could have a loose barrel chasing a round down

Your M85 is one of the easiest weapons to use if you keep these PM tips in mind:

1 The bolt must be forward and the safety must be in F position for loading.



2. Place the belt with the open sides of the M15A2 links facing down. Put

pawls. Close the cover. Hold it! Make sure the safety's in the F position. Pull not engage the feed actuator lever, and to the rear once on the charger. You should have a little slack after the bolt pivots the ejector into the bolt path. is seared up. Check by pulling on the This'll damage the ejector every time. charger. If you don't have slack, the bolt is not fully seared. Call the boresighting never use a screwdriver armorer maintenance type for help. pronto. Now you're ready to let go. But watch it! If the bolt's not engaged by the sear, it will go all by itself.

O' course, you always want to make sure the weapon is clear for PM action. Here's how:

- 1. Safety in the F position.
- 2. Pull the hand charger handle back to lock the bolt to the rear.
  - 3. Put the safety in the S position.
- 4. Hold the hand charger to the rear and raise the cover and the feed tray. Look and feel to be sure there's no ammo present.



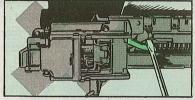
Watch it, Buddy! If it's not in the S position and the bolt comes forward, it could snap your fingers off!

- 5. If no ammo's found, put the safety in F position.
- ease the bolt forward under control of the charger handle.

If you load the weapon with the bolt seared to the rear and the cover closed. or place a round in the chamber for a 1-shot deal with cover open or closed, you'll damage the ejector during fir-

Here's why: The belt feed lever will you'll have a greater recoil force which

One more PM tip: When



or similar tool to pry on the ejector while removing or installing the bolt assembly. You'll bend the ejector for sure. And remove the feed housing and ejector assembly when you boresight the weapon and when you remove or install the bolt.

You have only 2 Basic Issue Items to worry about:

# NSN

1005-00-463-4616 Barrel w/flash suppressor 4933-00-716-0041 Ruptured case extractor

# PUBLICATIONS

You'll find all your M85 poop in TM 9-1005-231-10 (May 74), TM 9-2350-6. Depress the manual trigger and 215-10 (Feb 65), TM 9-2350-215-20 (Feb 65), and LO 9-2350-215-12 (Jan





rear electrical compartments of your cover to help keep the rain out. Chaparral launch station can create problems, big and little.

So, whether the water's from rain, condensation or washing the launch station, the continuing idea is to dry it

Vehicle washing is the bad guy so far as the rear electrical compartment



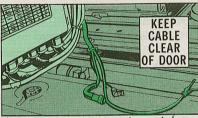
is concerned. If you don't mop up the outside, the door can cut it. excess, the water can short out your communications, run down batteries... partment.

The MPU compartment can take on water during washing, rain and whatever. Sponge it up and check it



#### COMMO CABLE

Remember to keep the commo



cable clear of the control panel door before you close it. Naturally, that goes when you remove the RT-524 receiver-transmitter for any reason.

If you leave the cable dangling

#### CANOPY

Another kind of leak is one you also and really screw up your generator set can do without. Inspect the canopy control box (GSCB). Remember: you seal often on the launch station never hose down the electrical com- canopy. Look for warping, breaks or



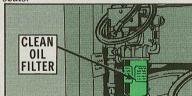
The canopy can be a gasser with a leaky seal, and you or your buddies don't need that kind of gas (toxic fumes).



If you've got a problem with the on your carrier, read on.

The seals in question are in the M730, Chaparral; M548, cargo; M667. Lance, and XM727, Hawk.

Sometimes, during storage, the differential brake bands flake off and clog the differential oil filter and its bypass valve. Or, metal chips from the transfer clog the differential oil pump and its relief valve. Sometimes, too, the chips clog the transfer scavenger pump or the check valve in the line from the scavenger pump to the tee that connects to the oil pump and oil filter. All of that is bad news for the seals.

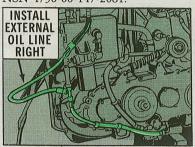


You can beat it by cleaning the filter and by draining and flushing the lube system.

following MWO's have been applied:

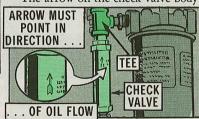
MWO 9-2520-238-30/2 (provides deflector which improves lubrication) MWO 9-2300-401-20/1 (increases size of lines)

Also, be sure you have the correct oil power pack transfer seals blowing out spray nozzle, Part No. 11647722, NSN 4730-00-147-2081

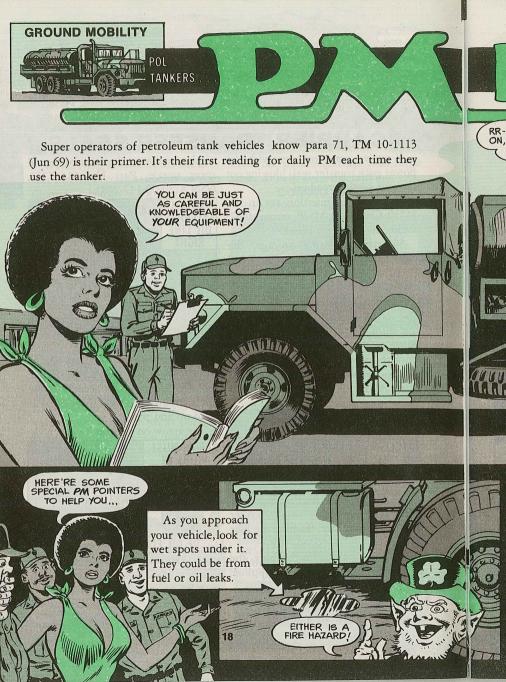


Finally, the external oil line must be installed right (be sure oil lines are not crossed and that quick disconnect couplings are fully connected). If the line's not installed right, pressure will build up and pop the seals.

The arrow on the check valve body



Another way is to be sure the of the external line must point in the direction of oil flow . . . away from the transfer scavenger pump and toward the tee connecting to the differential oil pump and filter.



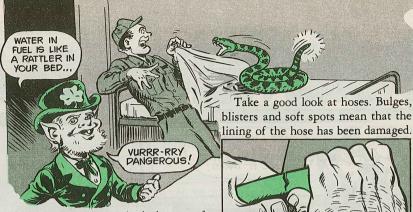
# PRIMER





Look for bare wires that could cause a short or electrical spark . . .





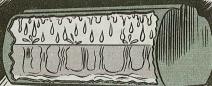
F'rinstance, water in the bottom of a tank can cause a static electrical discharge.

Fungus grows f-a-s-t in water.



Water freezes in aircraft fuel lines and carburetors.

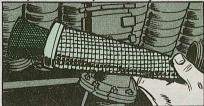
Take time to drain water from Temperature hoses and tanks. changes during the night-or while the tanker is not being used-can cause condensation to form inside the hoses and tanks.



Tears, rips, cuts and gouges call for hose replacement.

CRACKED?

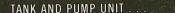
Got a new hose? Then run fuel thru it until the nozzle strainer catches all the dirt and hose particles left inside it during manufacture, storage, and transportation to your unit.



Eagle-eye the 100-mesh strainers screens-in the nozzles. They catch loose bits of rubber, tar, glue and carbon that are dislodged from the







# TIE-DOWN STRAP WRAPUP

Dear Half-Mast.

I ordered a tie-down kit-NSN 5340-00-185-6829-for my 600-gal trailer mounted tank unit. All I gotwas 1 strap. I expected more straps for my rough terrain hauling jobs. What's the deal, Sarge?

SGT A. J. K.

Dear Sergeant A.J.K.,

You ran into a P-manual and supply mix-up, for sure.

Here's how to get those rough terrain tie-down straps for a truck-mounted liquid dispensing tank and pump unit on the trailer-mounted job:

If your unit is equipped with the Wisconsin engine you need:

No	menc	latu	re

NSN

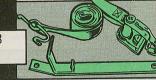
Part No.

KIT. TIE-DOWN 5340-00-185-6829 5-14-514-7 ROUGH TERRAIN



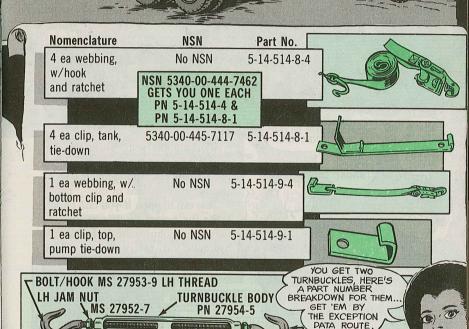
THE RT TIE-DOWN KIT CONSISTS OF THE FOLLOWING ITEMS. THE FSOM IS 97403.

5340-00-444-7462 5-14-514-8 4 ea tie-down assy, tank, vertical, c/o



1 ea tie-down assy, pump, rear, c/0

5340-00-185-6828 5-14-514-9



If your unit has the 31/2-HP Mil Standard engine, you need 10 ea tie-down

Use an exception data supply type request for all items with only a part number identification. Be sure to add the 5 digit FSCM with each PN.

TM 5-4930-227-24 (Apr 70) is being changed to show correct NSNs and

RH JAM NUT MS 35691-34

straps, PN 13217E7150(97403).

PNs.

Half-Mast

BOLT/HOOK

MS 27953-10 RH THREAD





doesn't have a filter, you have to drain or damaged. the whole hydraulic tank.

When you pull the cartridge out of the filter housing, you trigger the shutoff valve inside. You will get some oil—anywhere from 1 to 3 gallons-so you need a container handy to catch that much.

But the valve will stop the rest of the oil from pouring out of the reservoir.



The faster you get the cartridge out of there, the less oil will escape from the reservoir.

Watch it! The valve may stick—and not work. If more than 3 gallons of oil comes out, push the cartridge back in and pull it out again. This should the filter housing while you're putting release the shutoff valve.

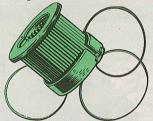
You get the straight poop on this 'em tight. filter in TM 9-2320-260-20 (Jul 72), pages 2-332 and 2-333, para 2-224.

para 2-296, can give you a bum steer. off the oil.

F'rinstance, just loosening the filter's cover plate is not enough to shut off the reservoir oil flow. You've got to pull the filter cartridge out of the housing to work the shutoff valve.

And you do not install a new cover plate and preformed packing along with cleaning the filter element. Like it says in TM 9-2320-260-20, you replace only those parts that're worn

A repair kit, NSN 2590-00-041-

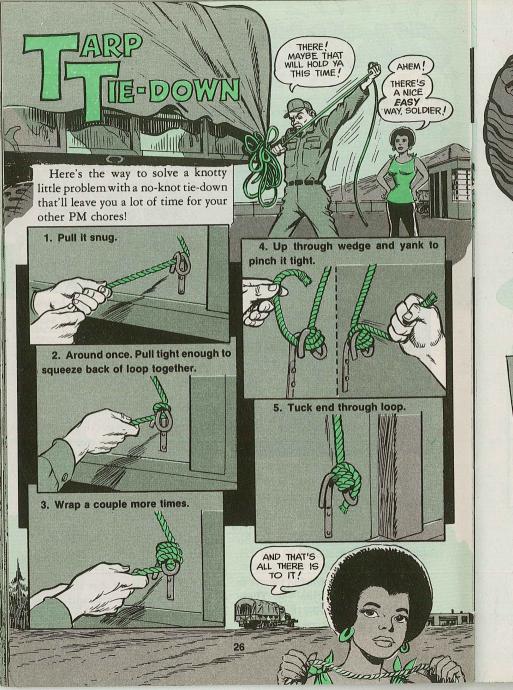


FILTER AND GASKETS IN KIT

3101, is not yet in TM 9-2320-211-20P, but it is listed in TM 9-2320-260-20P (Nov 72) under Part No. 5704497.

Be quick, too, when you're installing the filter cartridge and cover. That shutoff valve will open when you shove the cartridge in-and oil will come out of the reservoir. And you have to hold the cover tight against the 4 cover screws back in and getting

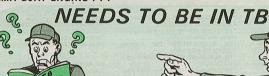
Remember, when you're working anywhere on the wrecker's hydraulic But you don't get the full picture in system—and you don't want all of that TM 9-2320-211-20 (Jun 73). Those oil pouring out of the reservoir—you instructions on pages 2-218 and 2-219, can take out the filter cartridge to shut



# M870

NSN 2610-00-752-9937 will get tires and NSN 2610-00-260-7354 will get tubes for the M870 40-ton low bed semitrailer. Add the NSN's to page 25 of TM 5-2330-360-14 (Mar 76).

GAMA GOAT ENGINE . . .



SOME OF THAT'S GOOD FOR THE GOAT

Dear Half-Mast,

TB 750-652 (Jun 70) has information on operation and maintenance of several Detroit Diesel engines. But the Gama Goat's 3-53 engine is not in-What's the word on this engine? cluded.

SSG R.E.R.

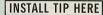
Dear Sergeant R.E.R.,

TB revision will include the engine used in the M561 and M792 11/4-ton vehicles. In the meantime, though, go ahead and use the TB for things that apply to all Detroit Diesel enginesincluding the Gama Goat's engine.

# TRACTOR TRUCK



Need a tip for the service air and emergency airhose support assembly on your 5-ton or 10-ton tractor truck? Get Tip, Furniture, Leg, NSN 5340-00-543-7141.





This is a selected list of recent pubs of interest to organizational maintenance personnel. This list is compiled from recent AG Distribution Centers Bulletins. For complete details see DA Pam 310-4 (Nov 74), and Ch 3 (Oct 75), TM's. TB's. etc.: DA Pam 310-6 (Jul 76), SC's and SM's and DA Pam (0) 310-9 (Aug 74), COMSEC pubs.

#### TECHNICAL MANUALS

TM 3-1040-219-12 Oct M4A2 Flame TM 5-4520-240-14 Aug Space Heater

15.000 BTU/HR, 28-VDC TM 5-6115-332-24P Sep Generator Set. GED: Air Cooled, 5-KW

TM 5-8115-457-24P Jul Generator Set, DED. 100-KW, 50/60-Hz TM 9-237 Oct Welding Theory and

TM 9-1240-372-10 Jul Binoculars: M3, M7, M13, M13A1, M15A1, M16, M17A1

TM 9-1430-485-20P Sep Lance TM 9-1430-488-24P Oct Lance

TM 9-2320-209-20P Oct Truck, 2½-ton, M34, M47, M59, M342A2, M764, M48, M108, M60 and Series M185, M35, M36, M756,

M49, M50, M275, M292, M109 Ch 4, TM 9-2350-230-20-1 Sep M551/M551A1 Sheridan Hull TM 9-2350-258-ESC Sep M48A5 Tank ESC

TM 9-4935-473-14-1 Sep Airborne TOW TM 9-4935-473-14-2 Sep Airborne TOW TM 11-2300-361-14-3 Sep Install Harnesses for Radio in M60A1 Tank TM 11-5815-331-20P Sep AN/VSC-2 Radio

Teletynewriter Set TM 11-5820-274-24P Sep AN/GSA-7 Radio

TM 11-5820-461-24P-1 Nov AN/GRC-

TM 11-5820-641-14 Nov AN/URR-70 Radio Receiving Set
TM 11-5820-843-13&P Sep AN/PRC-94

TM 11-5821-248-20P Sep AN/ARC-102

TM 11-5855-249-23P Oct AN/VVS-2(V)1 Driver's, Night Vision Viewer Ch 1, TM 11-5895-335-15 Oct AS-1425/GRC Antenna

TM 11-6625-409-20P Sep AN/ARM-45() Radio Test Set TM 11-6625-683-24P Aug AN/URM-127 Signal Generator

TM 11-6625-2676-14 Oct AN/ALM-166 Countermeasures Test Set
TM 11-6720-253-24&P Nov KS-99C Still

\*TM 32-5811-029-24P Oct Antenna

Simulator SM-719/ARM \*TM 32-5895-003-14P Oct Recorder Reproducer RD-413/ARD-22 \*TM 32-5895-020-14P Oct Airborne

HF/VHF Radio Direction Finding Sub-system PN 0423-1-5017 FSCM 15942 \*TM 32-5895-022-10 Aug AN/TRQ-32

\*TM 32-5895-223-14P Apr Operational Central Facility AN/TSQ-63A
\*TM 32-5695-263-14P Sep Monitoring Set, Radio AN/TRR-33

\*TM 32-5985-161-14P Oct Antenna Radome AS-4063/ARD \*TM 32-6130-100-14P Oct Power Supply

PP-7254/ARD TM 32-6625-010-14P Oct Direction Finder

Test Set TS-3564/ARM \*TM 32-6625-011-14P Oct ROM Programmer/Simulator PN 0423-1-4218 TM 55-1520-234-CL Nov Operator's Crewmember's Checklist AH-1S TM 55-1520-234-10 Nov AH-1S

TM 55-1520-234-23-2 Sep AH-1S (MOD) TM 55-1500-326-24 Oct Standards of Serviceability for Transfer of Aircraft

\*These may be requisitioned only from the US Army Security Agency Materiel Sup-port Command, Vint Hill Farms Station, Warrenton VA 22186

#### MISCELLANEOUS

AR 750-31 Oct Tech Pubs for Aircraft Files FM 9-45K3 Jul Soldiers Manual Tank Turret Repair Foreman, Skill Level 3 LO 3-1040-241-12 Sep M6-IR Reciprocating Compressor LO 3-1040-219-12 Sep M4A2 Flame

\*MWO 32-5895-215-35-4 Nov Modify Countermeasures Receiving Set AN/NLQ-

SB 11-640 Sep Dunnage Fabrication for S-144, S-318, and S-250 Shelters on Truck 11/2 Ton M-880 Series Ch 3, SB 740-94-120 Nov Storage Ser-

viceability Standards for All Protective TB 43-0209 Oct Color, Marking, and

Camouflage Painting of Military Vehicles, Construction Egpt, MHE TC 24-26 Sep Tactical Auto Dialing Manual

#### **NEW FILMS**

MF 46-5931 Master of the Sky? (Aircraft

TF 21-4971 Army and the Environment? TF 46-4782 Preflight UH-1H (Part II) TE 46-6014 LISA AAVS Assistance

#### AUDIO-VISUAL STUFF— Available at Your Local TASO

TEC LESSONS

043-441-1028-F FAAR Emplacement Part 6: Energizing 043-441-7813-F Chaparral Dally Maintenance Checks, Part 9 510-091-6453-F Preparing, Maintaining DA Form 2400 (Equipment Utilization Record)

510-091-6455-F Preparing of SF 91 (Operator's Report of Motor Vehicle Accident) 510-091-6456-F Preparing, Using

DA Form 2404 (Equipment Inspection and Maintenance 510-091-6457-F Preparing, Using DA Form 2404 (Equipment Inspection and Maintenance

Worksheet), Part II 510-091-6459-F Preparing, Maintaining, Using DA Form 2407 (Maintenance Request), Part I 510-091-6460-F Preparing, Main-taining, Using DA Form 2407 (Maintenance Request), Part II 510-091-6461-F Preparing, Maintaining, Using DA Form 2407

(Maintenance Request), Part III 510-091-6464-F Preparing, Maintaining DD Form 314 (Preventive Maintenance Schedule and Record) Part I 510-091-6465-F Preparing, Maintaining DD Form 314 (Preventive

Maintenance Schedule and Record) Part II 510-091-6467-A Preparing, Con-solidating DA Form 2406 (Materiel Readiness Report) 510-091-6474-F Preparing, Main-

taining, Using DA Form 2408-14, Uncorrected Fault Record 510-091-6471-F Preparing, Maintaining Equipment Logs 510-091-6479-F Preparing, Main-

taining DA Form 2409 (Equip-

ment Maintenance Log (Consolidated)) 510-091-6482-F Preparing, Main-

taining DA Form 2405 (Maintenance Request Register) 510-091-6486-F Preparing, Maintaining Equipment Serviceability Criteria (ESC) Tests and Checks,

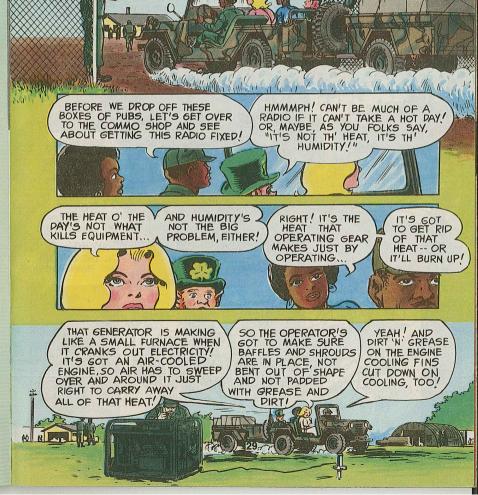
944-441-0009-F Wheeled Vehicles, 2½-Ton Truck Tire Changing, Repair, Operations Under Unusual Conditions 952-061-0054-F Electronic Early Warning Devices: PSID Part

Identifying, Testing, Operating

#### Maintenance Lagging? Clothing Care

TM 10-8400-201-23 covers repair and care for and load-carrying gear are just a few of the subjects it contains. Get one now to keep your gear in top shape.

If the maintenance effort on your equipment many items of individual equipment and is not up to snuff, maybe you need some help clothing. CVC helmets, body armor, sleeping bags from your local Maintenance Assistance and Instruction Team (MAIT) . . . the good guys! The new AR 750-51 (Sep 76) tells you what they have to offer.



WOW! WE )

USING THE ROPE FROM

ONE O' THOSE BOXES

WAS A GREAT TIP,

CONNIE!

ARMOR

TO MAKE A FAN BELT

KEEPING YOUR COOL

JUST GOING BY THE BOOK, PVT. HENESSEE!

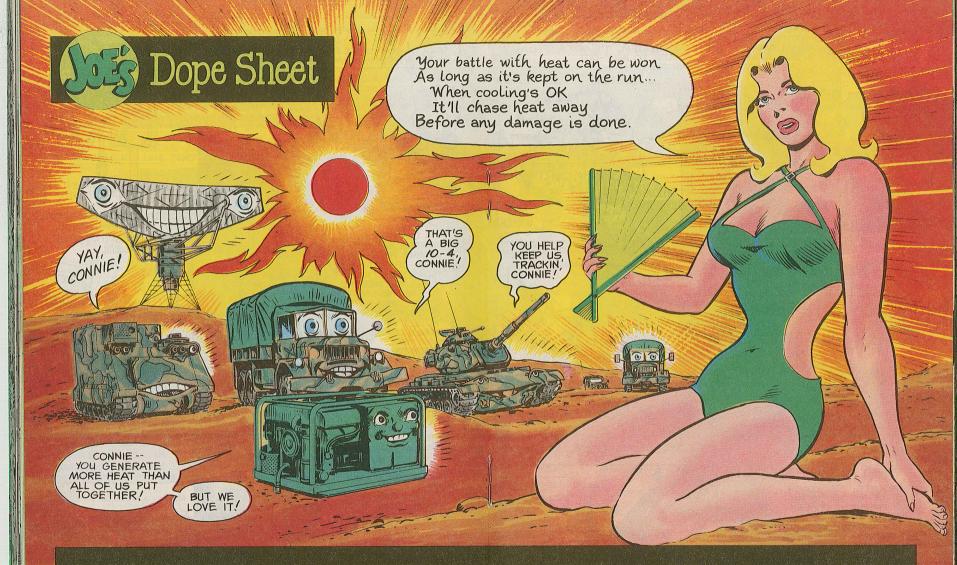
FM 21-305 (Apr 75), MANUAL

FOR THE WHEELED

VEHICLE DRIVER,

HAS THE WORD!





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

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



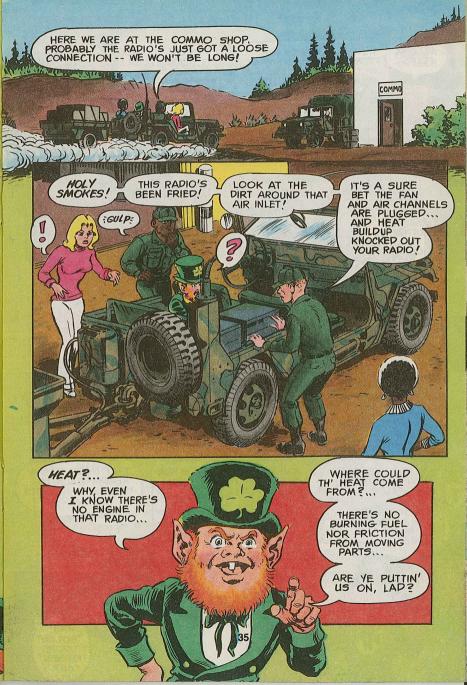
COOLING SYSTEMS ON DIFFERENT EQUIPMENT!

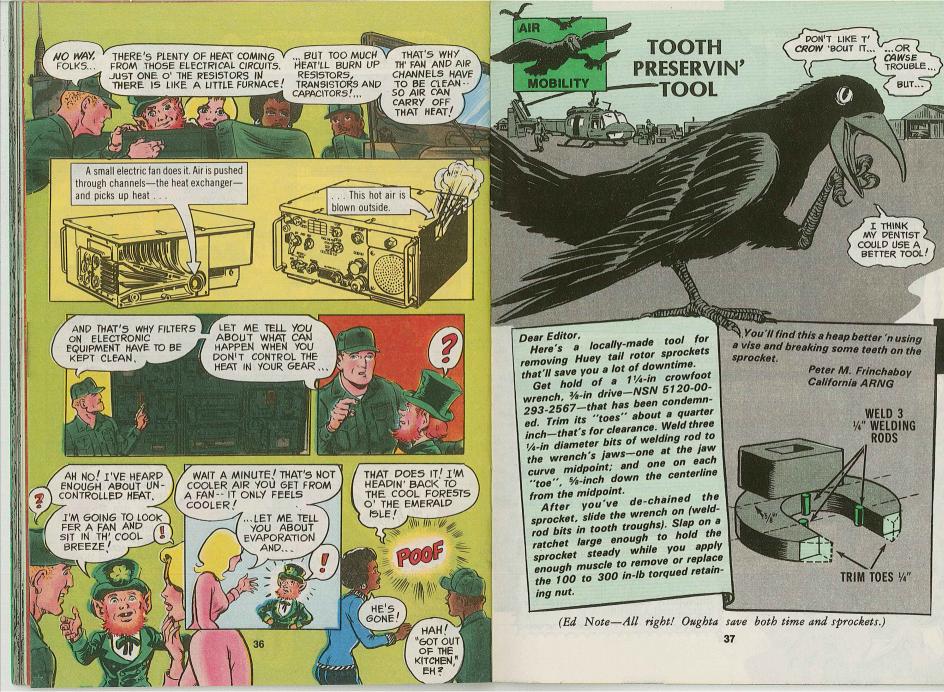
F'RINSTANCE, THAT M880-SERIES 1½-TON TRUCK HAS A TRANSMISSION COOLING SYSTEM.

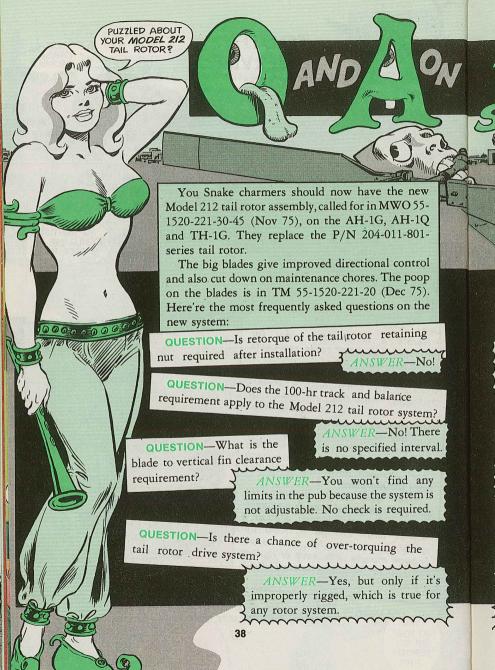
HOT TRANS-MISSION FLUID IS PIPED THRU THE BOTTOM OF ITS RADIATOR.

THE ENGINE'S WATER COOLING SYSTEM TAKES IT FROM THERE!

Tube carrying transmission fluid back after going thru cooler in bottom of radiator tank.









QUESTION—If one blade is remov-

munim

ed for air shipment is rebalance

ANSWER—No, provided the same

QUESTION—What parts must be

ANSWER-Remove the 2 blade

attaching bolts and disconnect the

pitch change link from the pitch horn.

QUESTION-What additional

ANSWER-The only tool not common to both systems is adapter

plate, NSN 4920-00-437-5112. The

plate is used during static balancing of

blade is put back along with the same

hardware and balance weights.

removed to take off one blade?

special tools are required?

the new blades.

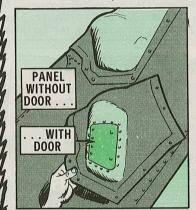
required?



Eveballing the silent chain in a Cobra means taking out umpteen screws to remove the access panel.

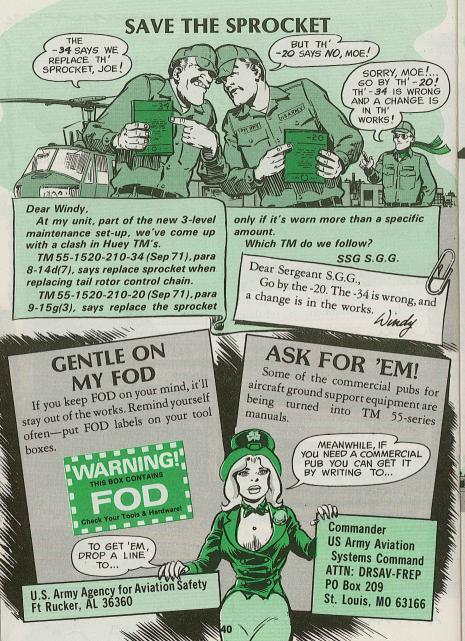


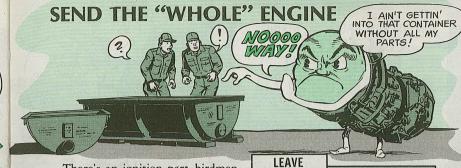
There is a better way!



Just put an observation door in the panel, following the poop on page 4 of TB 750-992-3 (Apr 73).

IF YOU CAN'T CORY, JUST WRITE TO PS MAGAZINE FOR THE DRAWINGS





There's an ignition part, birdmen, that is not making the scene at overhaul. Connector adapter, NSN 5935-00-106-0096, is part of the thermocouple and harness assembly on the T53-L13, L15, L701 and L701A engines.

This little gem costs 50 bucks so it doesn't take many of them to run up the tab when the depot has to buy new ones.

'Course, Fig 57 of TM 55-2840-229-34P (Jun 73) shows the adapter is part of the engine, not the airframe. So, if you're not sure about sending a part, eyeball the engine manual.

ADAPTER . . . ON HARNESS

Fact is, any time you get ready to bolt down the lid on a component container, make a final check to make sure you're sending the complete part . . . makes sense!

MWO UPDATE GIVES YOU . . .

THOSE CATS WHO
DID TH' MWO GOOFED
UP! THEY DIDN'T PO
ANY PM ON MY BIRD!

DELAYED PM

BACK, BUDDY!

MWO IS THEIR JOB!

PM IS YOURS!

OK. Your aircraft goes in for application of MWO.

A big thing to keep in mind is this: The team of specialists does not do routine maintenance on your bird.

They apply the MWO and correct any safety-of-flight faults. That's all.

So, when you get your bird back you'll have to polish up your tools and go to work. Your chores will be bigger because you'll have to pull the deferred maintenance.



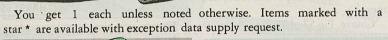
MK-693/A

NSN 5821-00-045-9695

Contact?

and connections in your MK-693/A maintenance kit.

You find 'em all listed in SC 5821-91-CL-E04 (Aug 75).



ADHESIVE, LIQUID: 2-oz btl

BRUSH, WIRE: rotary end



540-6646 5/32 540-6645 3/16 CAP, ELECTRICAL: class 1



 NSN
 wire
 quantity,

 5999-00 sz
 pkg

 661-0416
 22-18
 5 in pkg (4 pkg)

 729-1628
 16-14
 25 in pkg

 807-3775
 12-10
 100 in pkg

CHEST, TOOL: 19-in lg, 8¼-in w x 9% in h

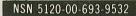


NSN 5140-00-957-4203

CLIP ASSEMBLY, TOOL: %-in to %-in cap

WHY, WINDY--IT'S MACON SPARKS!

wow!



WHO SENT YOU HERE, DUDE ?

OK, TROOPS--

GATHER

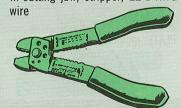
'ROUND AND WE'LL CHECK OUT YOUR MK-693/A KIT!

CONTACT ASSEMBLY, ELECTRIC: perm, crimp style, cop 16-14 size wire, insul



#### NSN 5999-00-502-8816 1

CRIMPING TOOL: terminal, hand, w/cutting jaw, stripper; 22-1 AWG



NSN 5120-00-278-2423 (when exhausted, use 5120-00-277-8310)

CRIMPING TOOL: term, man comp type, for cop insul term; 26-10 AWG wire

I DUNNO -- BUT
HE SURE STIRS UP
MY MATING INSTINCTS!

WHATEVER HE'S SELLIN' ..

> I'LL BUY!



#### NSN 5120-00-596-9313

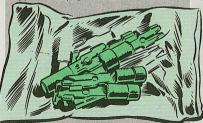
HMMMMPH! IS HE FROM OUR MAIT?

DRILL, HAND: solid wdn hndl, sngl spd, w/o ratchet 0.15-in to ¼-in cap



#### NSN 5110-00-243-0884

FERRULE, ELECTRICAL: wristlock type, dbl sprg, 22-14 AWG wire



NSN 5940-00-296-5326 10 in pkg

43





INSULATION SLEEVING. ELEC-TRICAL: flexible extruded vinyl plastic



	5970-00-		It
	683-4031	18	25
	235-2721	14	25
-	557-6244	12	25
	556-2717	7	25
	263-1325	5	25
		sz i.d., in.	
	011 0401	7/	25

811-9461 //16 25 557-6254 25 843-1255 25 557-6247 25 828-1090

ELECTRICAL: INSULATION TAPE. 1.75 in w. .002-in thk, 85-ft lg roll



NSN 5970-00-543-1005

KEY SET: skt hd screw, spline type, short series, w/L-type hndl; 9 keys w/case

#### NSN 5120-00-970-8947

c/o 1 ea of following: NSN w. across

5120-00flats, in. 0.035 \*901-6633 288-9085 0.050 293-0195 0.062 0.069 224-2496 249-9670 0.072 0.076 044-2391 0.098 223-6995 0.110 224-2482

827-2967 0.500 NONMETALLIC CHANNEL: rubber



quantity, NSN 9390-00-038-2168 (Beech) 25 25 247-7282 (MIL-R-3065) PLATE: mounting, nylon 1/2-in x 3/4-in

രെരുത്ത NSN 5975-00-966-4323

PLATE: mounting 1/2-in x 2-in

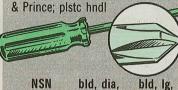
NSN 5940-00-966-6066

RETRIEVING TOOL: magnetic. telescpc

NSN 5120-00-545-4268

9

SCREWDRIVER: cross tip, strgt; Reed



	`	
NSN	bld, dia,	bld, lg
5120-00-	in	in
596-0866	3/16	3
237-8173	1/4	4

SEALANT & POTTING COMPOUND: kit, NSN 8030-00-174-2597 (This has a shelf life of 6 months and is not issued with the set. Order a 6months supply when

needed.)

SHEARS: strgt trim, 1 ptd bld, 1 bev bld 2½-in min lg, 7-in lg oa



#### NSN 5110-00-293-9199

SPLICE, CONDUCTOR: crimp style, cop insul



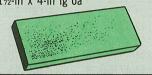
840-0139 25/pkg 18 AWG 500-8723 10 AWG 10/pkg SPLICE, ELECTRIC:

NSN 5999-00-502-8816

SPEAKING O' SPLICES, MACON, I'M AVAILABLE!

DITTO!

STONE, SHARPENING: med grit 1/4-in x 1½-in x 4-in lg oa



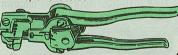
#### NSN 5345-00-190-5524

STRAP, TIEDOWN



5975-00-With 1¼" dia, bdl 111-3208 50 074-2072 1¾" dia. bdl 50 156-3253 4" dia, bdl 50

STRIPPER, WIRE: hand, No. 22-No. 8 AWG and AN wire rnge, floating hndls, size 3 blds

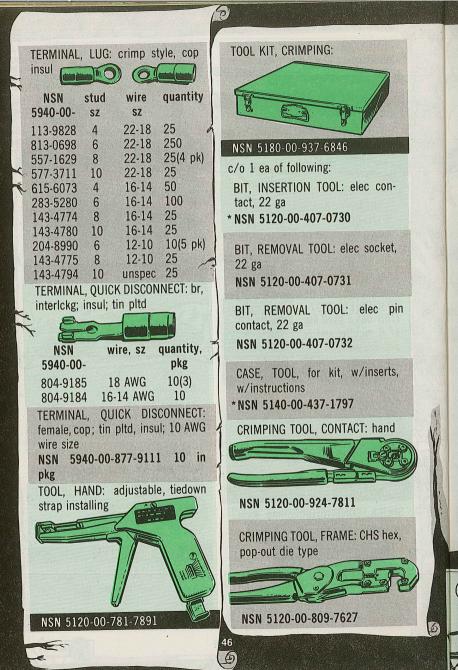


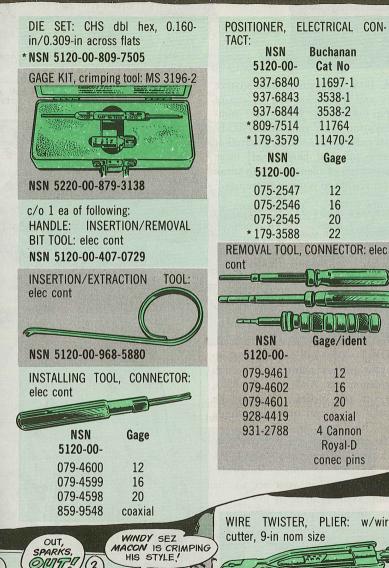
#### NSN 5110-00-268-4224

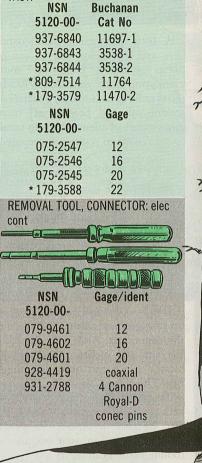
TAPE, LACING AND TYING: imprgntd. waxed, nylon, .012-in x .062-in, 250 vd spl

NSN 4020-00-656-1257

MORE







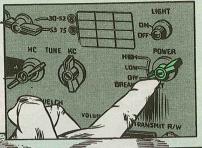
B



PREND



**POWED POWER**—If the power goes off for no apparent reason in your radio while you're transmitting, wait a minute or 2. Then, reset the circuit breaker switch. If it goes off again you need to get your radio to your maintenance people, pronto.



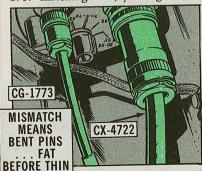
I HOPE YOU CAN
FIX IT QUICK, JONES!
YOUR SET AIN'T
TH' ONLY THING
THAT'S BURNED-UP!

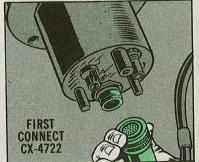
BURNED RADIO—You'll get a burned-up radio set if you fail to tie the CG-1773/G antenna cable into your set and AS-1729. This burn'll hit your set in high or low power. Always hook up your antenna cable before turning on your set.

FER DEPOT!

HAH! WHEN TH' OL'
MAN GETS THROUGH
WITH HIM, JONES'LL
BE BURNED, TOO!
PROB'LY A JOB

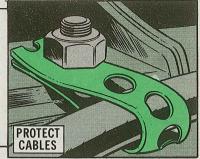
KINKY CONNECTION—If you mismatch the CG-1773 cable with the J2 receptacle on the antenna's MX-6707 matching unit, you'll get bent





pins. To avoid this pin mish-mash, always connect the CX-4722 antenna control cable to the J2. Then, make your CG-1773 hookup.

**CABLE CRUNCH**—When your set's out of its mount the cables have no place to go but, maybe, in the floor of your vehicle. This'll leave you with foot-stomped connectors. To beat the feet to the punch, tape the cables, like the CG-1773, to the mount. Or you can slap a perforated clamp strap NSN 5820-00-783-9035 to the cable



COVER RECEPTACLES

**COVERLESS**—Leaving receptacles bare on your MT-1029 and MT-1898 mounts when your set's out of your vehicle can give you moisture and corrosion you can do without. Put those covers in place to protect the receptacles.

VOLTAGE SPIKE—Starting your vehicle with your radio set on can zonk your set. Remind yourself to turn your radio off by putting a DA Label 132 where it really catches your eye. Near the vehicle's ON-OFF switch is a good eye-catching location for you. SB 11-624 (Mar 70) tells you about the warning label, and you can request as many as you need on DA Form 17.



AND, MAKE SURE YOUR MX-7778A TRANSIENT SUPPRESSOR IS INSTALLED IF YOU HAVE A TRACKED YEHICLE!



# **CUT ANGRY-106 MONITOR MARK**

Are you rating RED with those ESC checks on your AN/GRC-106() radio set or AN/GRC-142(), AN/VSC-2 or -3 RATT Rig 'cause you miss the 50mile mark when you're being monitored?

Well. GREEN for go may be headed your way since that monitored groundwave transmitting distance has been cut to 20 miles, like with AN/GRC-122() in TM 11-5815-334 ESC-2 (Jun 76). So, keep an eye out for this 20-mile info in an upcoming change to TM 11-5815-334-12 (May



# LONG SCREW'LL SHORT RT



52

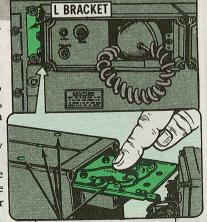
Need a screw or two in your AN/GRC-103 radio set's RT-773 order wire receiver-transmitter?

Hold it!

Before you tighten the RT-773 chassis to the relay rack's L bracket, make sure you have the right length screw.

It takes a No. 10-32, %-in screw NSN 5305-00-989-7435.

If you use too long a screw when the RT's fastened from the left side, the screw will short out the wiring or break the printed circuit board.

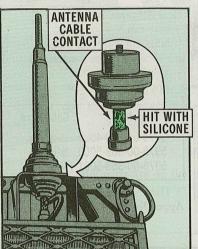


TOO LONG A SCREW CAN DAMAGE CIRCUIT BOARD AB-652 ANTENNA . . . LAY IT ON WITH SILICONE

... THAT TAKES CARE OF YOUR RUST PROBLEM!

NOT WITHOUT SILICONE





After you've given your AB-652 antenna a rust-removing treatment, with sandpaper or wire brush, go a step further and coat the vulnerable parts with a light film of silicone compound.

That'll keep you from having to perform your rust-removing chores all over again—real soon.

Give silicone attention to the antenna cable contact as well as the outside metal part.

NSN 6850-00-880-7616 gives you an 8-oz tube of silicone compound.

Be sure the bowl gasket is firmly seated, with no chance for leakage. A shaky gasket allows moisture to build up in the bottom of the bowl.

## **GOGGLE BATTERY**

Has the green glow gone from your AN/PVS-5 night vision goggles? Before you head 'em off for repair, switch the installed BA-1567/U battery NSN 6135-00-485-7402 with the spare you're carrying. Sometimes the battery goes dead before its time. And, remember to always take out the battery when your goggles are idle.

# TAPE YOUR COAX

When the tape tying the coax cable to your RC-292 antenna equipment turns loose, blasts of air will fling the cable about. This'll leave you with damaged connectors or broken cable.

To save the antenna's cable and



connectors from tugging wind and weight, use a low-temperature tape NSN 5970-00-816-6056 that'll snug 'em up to the mast sections.

# **NSN'S FOR CABLE RINGS**

I'M ORDERING AERIAL CABLE RINGS AND DRIVE RINGS ...



FINE ... BUT RINGS COME

My signal unit lays out a lot of Dear Half-Mast, telephone cable in the field. Can you give me the stock numbers for the aerial cable and drive rings? SGT A.R.F.

Dear Sergeant A.R.F.,

Sure can.

NSN 5975-00-223-1847 is for the aerial cable ring or hanger. It'll handle a cable up to 2-in dia.

The drive ring comes in 3 sizes—

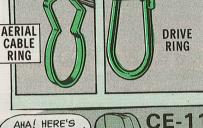
NSN

Cable size

5975-00-369-4999 1/2-in dia 5975-00-369-5000 %-in dia 5975-00-369-5001 34-in dia

These rings are authorized by Appendix A of CTA 50-970 (Jul 74).

Half-Mast



THE REEL DEAL

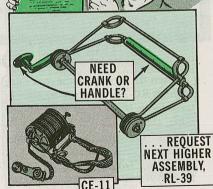
# CE-11 REEL DEAL

REAL DEAL, GOOD BUDDY! TM 11-3895-203-24

Are you looking for a crank or handle assembly for your CE-11 reel equipment?

Stop looking 'cause they're no longer repair parts. To get 'em you have to request the next higher assembly, which is the RL-39 reel NSN 3895-00-498-8343. (The reel NSN in the TM is in error).

This change in repair parts is in TM 11-3895-203-24P (Apr 76) which supersedes the repair parts list in TM 11-3895-203-15 (Apr 67).



# ER PARTS FOR AN/MPQ-4A

DRAT! THOSE PARTS GOTTA BE LISTED SOMEWHERE !

RIGHT ON, CHIEF,,, BUT YOU'LL FIND 'EM IN THE TRAILER TM, NOT THE RADAR...

Dear Half-Mast.

I can't find the stock numbers for parts on my AN/MPQ-4A radar set. The items I need are jack handle, handle assembly, spring and nut stop.

They're not in the radar parts CW4 H.C.S. manual.

Dear Mr. H.C.S.,

Even though the parts are on the radar set, they are for the M454 trailer chassis, the radar carrier.

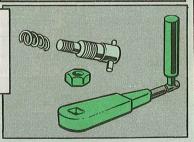
Parts and NSN's are-



Handle, jack 2590-00-930-3555 Handle assembly 2590-00-930-3547 5360-00-930-3549 Spring Nut, plain, cap 5310-00-059-9271

You'll find 'em listed in Ch 2 to TM 9-2330-234-15 (Mar 60).

Half-Mast



Next Month In 25 **TOW MISSILE SYSTEM BLAST** 

M880 . . . WEIGHT CLASS

**V-BELTS MEAN GO!** 

SB-22 SWITCHBOARD KO KO KO KO KO KO KO

SP4 B.A.D. thought the clutch pedal was a nice place to rest his foot on a long haul. They're putting in a new clutch-to the tune of 85 bucks.

55



MEP105A or MEP115A generator set needs special PM care when you crank 'er up.

One thing it doesn't need is idling. Fact is, this diesel-engine-driven set is not made to warm up.

So if you try to idle the MEP105A or MEP115A set by backing off the fuel injection pump lever set screw you'll



screw up the excitation system. Like maybe 2 resistors—R225 and R226 on the electronic component board and electrical components of the governor control unit.

Figures 2-6 and 2-7, TM 5-6115-545-12 (Jun 73) have the straight poop on starting the set. Idling is not part of this poop, podner.

ALSO, THIS'LL HELP YOU PROTECT THOSE 2 RESISTORS ON THE

1. After you get the set started, leave the Main Load Contactor in the OFF position.

2. Increase the speed to 48 HZ.

3. Loosen the hex screw that secures, the throttle cable on the manual control fuel injection pump lever (Fig 3-10, in the Dash 12).

4. Hold the pump lever so that the set maintains a frequency of 48

5. Push the manual throttle control completely in, while still holding the pump lever, to keep frequency at 48 HZ.

6. Retighten the hex screw on the pump lever.

7. Recheck the unit to be sure the speed doesn't drop below 48 HZ with the throttle control pushed all the way in.

some time—or setting idle in bocharger assembly: temperatures below 32°F for 24 hours—you could have another problem—bearing failure.

NOT ME!

12/1/0/0/1/16

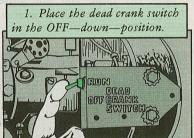
Take the turbocharger impeller shaft bearings for example. The lube

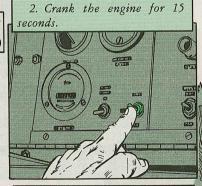


drains away, dries up or hardens on the bearings. Since you don't idle the set, those 2000 operating RPM's hit and heat the unlubed bearings as soon as the engine starts. This is guaranteed to burn 'em up!

Here's how you prelube the bearings and stop downtime and

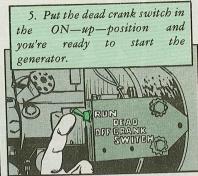
If your set has been out of service for damage to the engine and tur-





3. Wait at least 3 minutes and crank it again.





#### **FAN BLADE BUMMER**

Stop fan blade and fan guard damage that's caused when vibration loosens the air shroud and fan guard mounting hardware.



Replace the 4 non-locking flat washers MS27183-10—item 2, fig 46, TM 5-6115-545-24P(Jun 73)—with ¼-in ID internal-external tooth washer MS45904-68(96906) NSN

> HEY ... CAN'T DRY M'SOCKS! YER @ #!! FAN AIN'T PUTTIN

OUT, SOLDIER!

5310-00-889-2528.

After you add the new washers, check the clearance between the fan blades and the guard 'n' shroud.

Doublecheck the cooling fan drive belt tension, too. It has to deflect <sup>9</sup>/<sub>32</sub>



inch with 12-to-14-lb pull at the center point between the water pump and crankshaft pulleys. You CAN STOP

SORRY 'BOUT THAT,
TIM... FAN BLADE'S
BUSTED AG'IN!

YOU CAN STOP
THAT DAMAGE BY
GETTING NEW TOOTH
WASHERS TO SECURE
YOUR SHROUD!



Cleaning up an oily mess wastes valuable PM time.

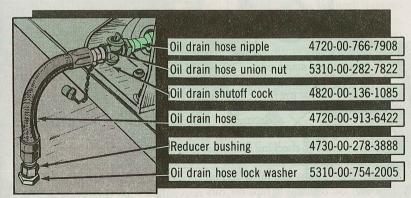
F'rinstance, a banged-up oil drain valve—or a missing or damaged oil drain hose—on your trailer-mounted 5-KW generator sets is a real mess-maker.

Some troops will use any size wrench that's handy to open the shutoff cock during an oil change. They'll even bang it with a hammer! Pretty soon you're cleaning up a leaky valve mess daily.

Sure, it's a mite unhandy to turn the valve, but patience here means more time for more important jobs.

Some troops will drain the oil out of the generator when a drain hose is missing or leaky. Some mess in the trailer! Not to mention oil-soaked hoses, dangerous footing.

You're supposed to cannibalize the oil-drain hose and reducer bushing. But if the can point cupboard is bare, use these NSN's for these items—and related parts:



TM 5-6115-365-15 (May 66) comes up short on these numbers for the PU-629/G and PU-631/G sets. You'll find 'em on page 4-15 for the PU-618/M set.



Gently stretch the harness at least 3 mask. If the harness goes back into the original shape each time, no sweat. But, if the harness stays stretched, tell your mask specialist.

Does the harness show mildew?



Get with your specialist and clean it up. As long as the mildew hasn't damaged the harness, a thorough cleaning of the harness and the carrier will solve your problem.

Use a clean cloth or soft-bristle brush dunked in warm, soapy water (soap, NSN 8520-00-228-0598 is OK).



Rinse well with cool, clean water. Make sure the harness and carrier are dry before you store the mask, or next time you check, the mildew may have taken over.

Check the hardware. Any clips or times as if you were putting on the buckles damaged or missing? Watch for worn spots on the hardware. Exposed brass coming through the black coating can ruin the rubber of vour mask.

> Eve the tab assembly where the harness hooks to the mask. Dry rot setting in there can ruin a mask.

> To test for dry rot, hold the metal clip and buckle and the rubber tab between your thumb and forefinger. Use the everings to hold the faceblank with your other hand.



Pull gently on the tab until it comes ½ to ¾ inch from its normal position.

If the tab resists your pull and then returns to its original position, it's

But, if the tab pulls too freely-and stays extended—turn in the mask.





Keeping up with the daily goingson of a toolroom and tools may not be so easy, but a few tips will make your going smoother.

No matter if you are a toolroom manager or a mechanic, you can use better ways to identify, control and account for tools. Try these-

### TOOLROOM MANAGERS-

Tell every person of his/her responsibility for the hand tools before signing them out.

Check a tool set or kit for completeness before issuing it and after it's returned.

Make sure each tool, tool kit and tool set is well marked for both permanent and quick ID.

tool sets and kits are located.

#### TOOL USER-

sign for. That's the word in Para 1-4i you turn 'em in. of AR 735-5.

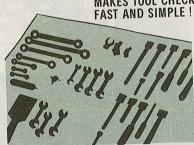
check tools fast. Shelling out your own tool kit. Mark each tool to match its green for lost tools is no good. Keep tool box.

your tools secure. If you're not using 'em, lock 'em up.

#### **IDENTIFY TOOLS**—

Tool boards and canvas or paper layouts are handy to check tool kits for completeness. The layout has an

A HANDY TOOL LAYOUT . . . MAKES TOOL CHECK



outline of each tool in the kit. Use a Have a method to know where your felt-tipped pen to outline the tools.

Canvas and plastic layouts have a big advantage: they're portable. You can take 'em along and see if the kit's You are responsible for all tools you complete at the end of the day or when

Well marked tools are less prone to It's a good idea to have a way to "wander" or get mixed in the wrong

For fast, at-a-glance ID, color code tools with a patch of tape or a dab of paint. Use color-coded paint and

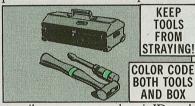
KEEP

TOOLS

FROM

CONNIE ... AN' IT SHOWS FACH TOOL!

NOW I CAN BE READY FER TH'



stencils or tape to mark unit ID, tool box number, and USA markings on the tool box.

Also get the "Property of US Govt" decals from GSA under NSN 7690-00-130-3251 for tool boxes and large the set. tools.

number and US or USA markings on help. each tool and box. Para 1-8j, AR 735-5 has the word on etching.



Use one of these etching tools:

'EM AT

CHEAPER -- TO

MARK 'EM!

RIGHT ON!

EVERY

YEH -- BUT WHAT

GOOD IS IT ... ? WHEN HE CAN'T FIND 'EM!

Vibrator type NSN 5130-00-596-8404 NSN 5130-00-596-1062 Electric arc NSN 5130-00-203-7943 Electric arc

Use tool checks, NSN 9905-00-473-6336, to locate tools fast. You can etch

. HANDY TOOL AND CHECKS EFFICIENT! ARE . . .

or stamp them with a mechanic's personal and unit ID. The mechanic turns in the check when he signs out a tool, set or kit. The toolroom manager places the check where the tool or set belongs. That tells at a glance who has

It's easier to take monthly inventory Etch the tools and tool boxes for a if you have pictures to go by. Pictures permanent ID. Use unit ID, tool box in supply catalogs on your sets and kits

#### SPECIAL TOOLS-

Although there's no requirement to keep a hand receipt annex on special tools, it's a good idea. Some special tools are costly. They're listed and illustrated in your equipment's -20P TM, so they're easy to identify. It's easy to forget about special tools, so some method of controlling them will help.



When a mechanic loses or damages a tool through carelessness, a Statement of Charges or Report of Survey can cause heartburn for everybody.

Now, there's a way out. You can pay cash for a replacement at the Self-Service Supply Center (SSSC).

DA Message DACA-FAL-S 131926Z May 76 has the word. You can replace lost or damaged authorized unit hand tools without the hassle of DA Form 444, DD Form 362 or DD Form 200.

Forget about buying tools to work on your own bus, tho, that's out!

But if a unit tool turns up busted or missing, tell your maintenance supervisor.

If you want to replace the tool, your commander will give you an

authorization statement. The 3-part note gives you authority to buy one or more tools (by name) for cash from the SSSC to replace lost or damaged tool(s) your unit is authorized.

You take 2 copies with you to the SSSC. The 3rd stays on file at the unit.

That's it. A note from the CO and a





# Rough Service Lamps

Several lightbulbs for rough and tumble use are listed in C 6200-IL (microfiche). A few worth mentioning are: NSN 6240-00-299-3394 (230-V, 100-watt): NSN 6240-00-155-8659 (230-V, 50watt): NSN 6240-00-824-4676 (115-V. 100-watt): and NSN 6240-00-519-0853 (24-V, 50-watt).

# Generator Operators

Ignore the air, fuel, and oil filter change intervals for generators you saw on page 28, PS 290. Your command got the straight poop on this in USA TROSCOM Msg AMSTS-MMG 211700Z Mar 75. You change oil and oil filters on all your 15-KW thru 200-KW generator sets every 300 hours or 6 months—whichever comes first.

## RCM—Best With Less

RCM—Reliability Centered Maintenance. This is a big idea that calls for doing only the maintenance that is absolutely needed to keep your equipment reliable in combat. No eyewash stuff, no changing parts needlessly. You may never see RCM as such, but as time goes by you'll find the unnecessary deleted as your manuals are changed. You'll see RCM-sparked maintenance designed into new equipment. It'll mean less time, effort and money applied to maintenance but equipment that'll be just as good as ever. PMS cards to do them.

# New Supply Message

You supply types better beat a path over to your message center. There's a new message out redefining exception data supply procedures. Ask for DA Msg DALO-SMS 271743Z Dec 76.

# ALICE Update

Repairing the small arms ammo case that's part of your ALL-Purpose Lightweight Individual Carrying Equipment—ALICE-gear? You need NSN 5340-00-753-5573 for the plastic fastener. Forget the NSN for this item you saw in PS magazine 286 (Sep 76).

# M880 Transfer Lube

OE/HDO is the right lube for your M880-series 11/4-ton truck's transfer case—just like it says in LO 9-2320-266-12 (Oct 75). Pay no mind to that "GO" on page 3-2, Ch 1 (Jul 76), TM 9-2320-266-10. The straight poop is on page 3-4 of that TM

# Don't Dump PMS Cards

When your aviation unit switches over to the new Phased Maintenance Inspection System, hold on to your old Preventive Maintenance Services cards. Why, you ask? The daily inspections won't change. You'll still use the old

☆U.S. GOVERNMENT PRINTING OFFICE: 1977 - 757-002/5

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

