

MOST IMPORTANT

units, general support units and depots. ment. And back of them are direct support maintenance mechanics and specialists who maintain and repair equip-You know, of course, that your own outfit has

and the most critical maintenance in the whole Army? But, do you know who does the most important



erates or uses a piece of Army equipin industry, agree on that. best, both in the armed forces and ment. Men who know maintenance Yes, you, the man who drives, op-

of equipment does his level best to more equipment ready to go at all his equipment and to operate it in the do the preventive maintenance on repair and maintenance. times and less equipment down for best way possible, then we'd have If the man who operates a piece

level, tire pressure, filters, radiator manual calls for. the minor adjustments that your level and loads real often. And make To do this you check things like oil

ment will see you through (-10 TM) . . . know before you go. the scoop in your operator's manual ... just like it's your own. Learn Do these things and your equip-Operate your gear with great care

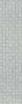




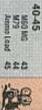


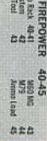
THE PREVENTIVE MAINTENANCE MONTHLY ISSUE NO. 178 1967 Series IN THIS ISSUE

GROUND MOBILITY Special feature Sion Truck 2.28











TK-101 Tool Kit 48-51 Cable Connector 52 Test Lead 53 PP-1578 53 COMMUNICATIONS 46-53



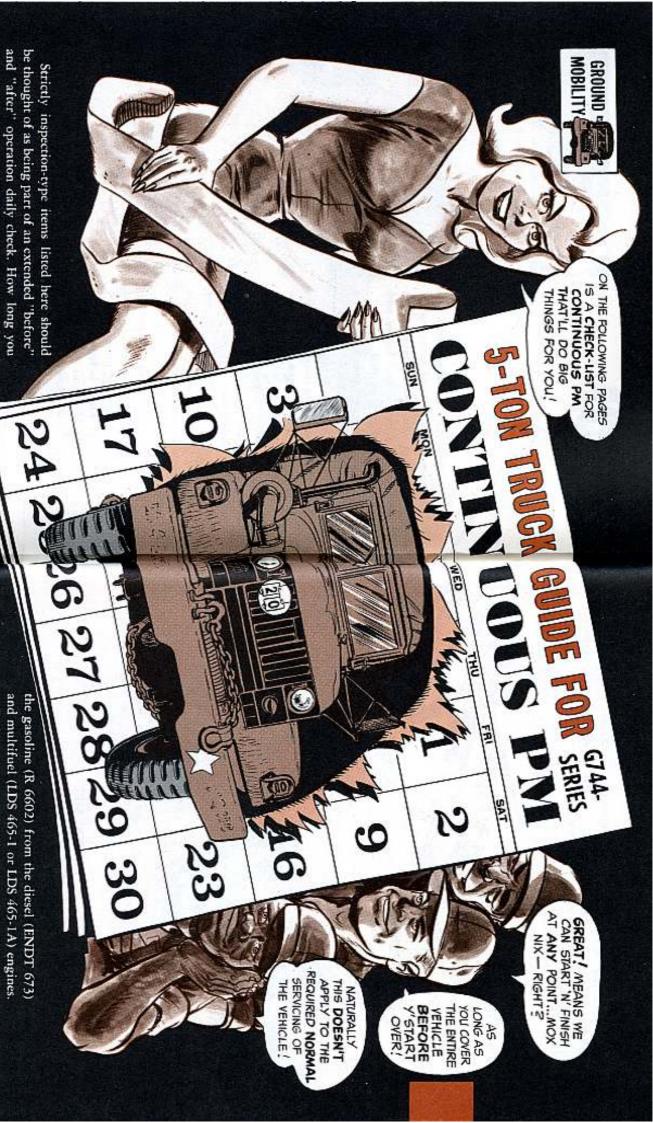
GENERAL AND SUPPORT DA form 2407 53 New Publication 37 Supply 38, 44, 46, 47, 48, 49, 50, 51, 53 DA Form 2407



Use of hads for printing of this publica-tion has been approved by Meadquaters, Department of the Army, 19 February 1965. DISTRIBUTION: In accordance with re-quirements submitted on DA Form 12-4.



Gord Know, Ky PS Magazine, Sqt Half-Mast



Deficiencies are pointed out here by putting them in heavy type. The guide for deciding which faults are deficiencies is DA Pamphlet 750-10 (Jun 66). Command Maintenance Management Inspection Handbook.



a typical cargo truck representing the entire G744series. The differences mentioned here are the front

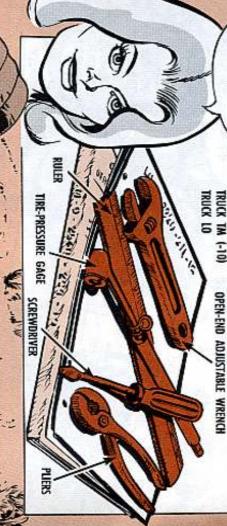
winch installation for this series and those separating

extend it is up to you, the driver.

This list is not meant to be complete. It only covers

25700

or feel, you'll need a minimum of the following tools to do the job correctly: Since every item can't be inspected properly by look



THE RIGHT SPOT

underside . . . or you might even want to use a locally fabricated sloping ramp. any time you're not sure—about anything! A wash rack or pit is great when it's available for checking your vehicle's Last, but by no means least, don't forget to ask your favorite unit mechanic

correct the faults you find but can't correct on your own. He's also the man to show your DA Form 2404 to, because it's his job to

needs right-now attention like we're doing our own spot check right now and see what we can find that And don't get careless . . . roadside spot checks are everywhere. So let's make

> dents, welds dents, APPEARANCE—Dirty GENERAL VEHICLI body



AIR CLEANER diesel &

cracked Loose, multituel)-

National markings missing, not readable (local SOP) or wrong (AR 746-5 & TB

over, clouded, dirty, contain water; blackout shield missing, not in TURN SIGNALS — Not working, not adjusted; lenses cracked, painted HEADLIGHTS, BLACKOUT LIGHTS & place, frayed or exposed wire causing short circuit

TOP PANEL & WINDSHIE HOLD DOWN CATCHES

WINDSHIELD



stuck, loose, won't swivel; ing. Unit markings missing clevis pin rusted, clip missshackles missing, bent not readable, wrong. loose, cracked. Lifting BUMPERS — Badly

cutout cock binds; washer missing; broken, missing. Chain broken, missing stops missing; dummy coupling loose, BRAKE COUPLINGS (2) - Won't work

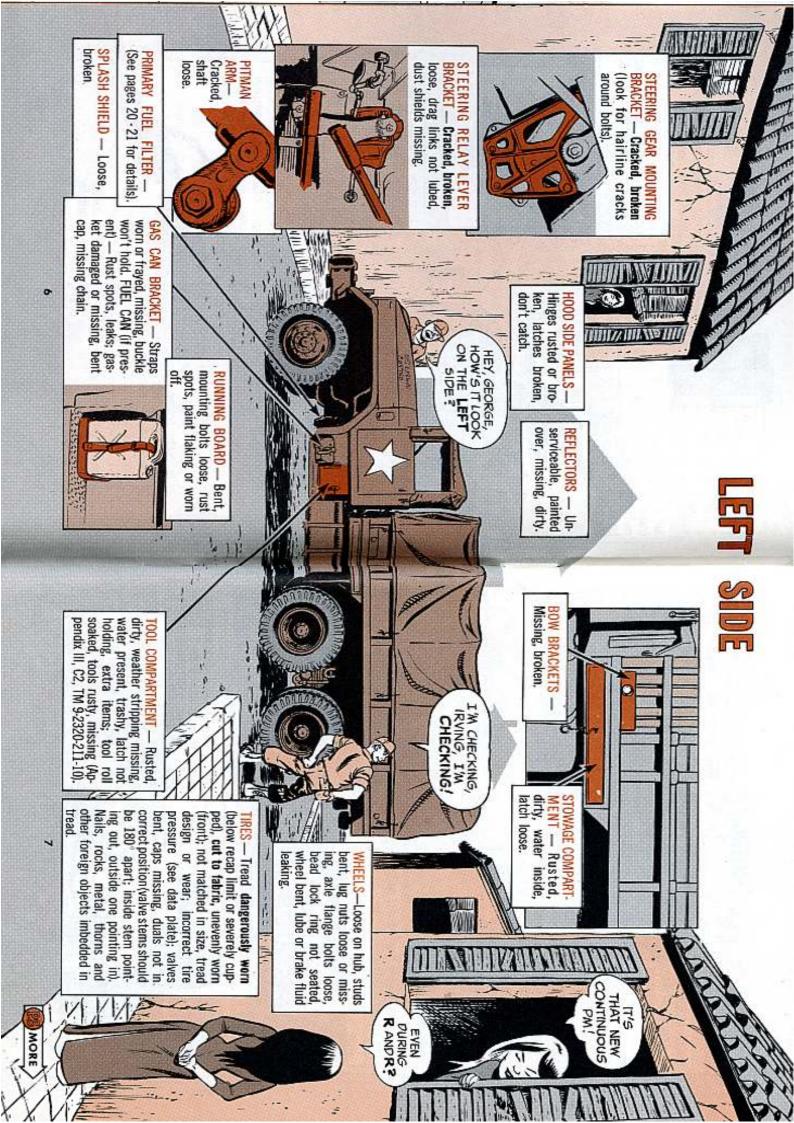


(right front coupling only) - Breather clogged or missing

missing. Weight classificabraces broken; nuts loose, brackets broken, BRUSH GUARD tion not applied, wrong Frame loose;







EFT SIDE CONTINUED

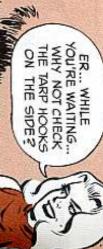
SHOCK ABSORBERS rubber bushings (should feel warm or leaking, not working not after road test), oose, worn out - Loose, broken,



FUEL TANK — (Right side also on M5

PIONEER TOOL MOUNTING - Bracket missing, loose; straps torn, missing, tools missing (Appendix III, C2, TM 9-2320-211-10 & TB ORD 2300-20/4).







feed and vent lines mashed; dirt on top neck screen damaged or missing, tank markings not readable (TB 746-93-1), open position (except for fording), fuel gasket missing or torn. Cap valve not in support rails loose, cap chain missing, inches below top), retaining straps and fuel level too high (must be at least 2 dented (big dent cuts fuel capacity) and M52 trucks) — Leaks or seeps

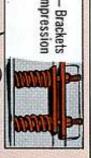
and around filler cap

TARP HOOKS badly bent, - Missing, rusted, loose broken or trayed FUEL GAGE SENDING UNIT Connector crushed, wire C leaking, lines loose. VENT COVER - Broken,

to both fender and plate; less than 1/8-in clearance between lower spring and mounting bracket. See TB 750-981-1 (Jan 67) Article 133 and MWO 9-2320-211-20/10 (Mar 67). EXHAUST STACK(Multifuel) — Less than ½-in clearance

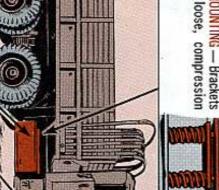
SLAVE RECEPTACLE

springs cracked cracked, bolts loose, compression CARGO BODY MOUNTING — Brackets



yond use, evidence of Cover missing, contacts burned be-(Cold climates only)

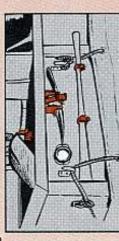
arcing.



STOWAGE COMPARTwater present, trashy MENT — Rusty, dirty oose latch.

side panel corner. Not pointed at fender — PICK-UP TUBE -

missing, loose; straps torn, missing; tools missing (Appendix III, C2, TM 9-2320-211-10 & TB ORD 2300-20/4). PIONEER TOOL MOUNTING — Bracket



cause arcing. Not date stamped (TM 9-6140-200-15). No diluted electrolyte wrong (positive terminals should face marking if in tropical area hits battery cover, loose enough to (should be laid on shelf), positive cable (thin coat only), corroded. Cable pinched terminals loose, cracked, not greased threads stripped, vents clogged. Cable truck front). Vent caps missing, broken, tops, cracked, leaking, dead, installed BATTERIES — Electrolyte below plate

missing, wing nuts bind warning plate missing BATTERY BOX—Clamps ing, rusted, loose down bolts & nuts missbox rusted; cover hold







badly bent, chains taining hook won't missing or broken, re-TAIL GATE — Broken,

open, either step not usable.

100 L ACC

DOMEGG

SAFETY STRAP - Missing, bolts or eyes missing. torn, snap hook broken,

legible, badly bent, BUMPERETTES — Unit markings missing or not

bolts missing.

loose, rusty,

broken,

opened, won't lock, spring bent, not lubed, can't be PINTLE — Missing, loose,



Control (1)

ALC WASH



seat latches don't hold

nuts loose. Installed wrong.

en, cloudy, dirty. Reworking. Lenses brokflectors missing. REAR LIGHTS - Not



ing, loose, torn, bolts MUD FLAPS - Miss-

missing.

ing, wrong pressure, flat, not secured by all SPARE TIRE - Missholding studs

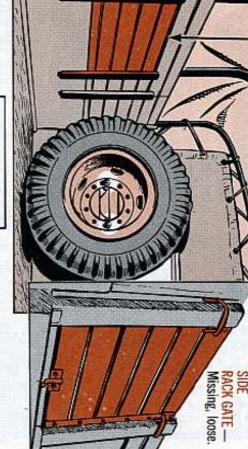
FLOOR PLATES—Bent, damaged, drain hole



MORE



rusted, unpainted, broken, rotted; installed wrong (handets missing, bent; hinge pins SEATS & RACKS - Missing, missing, cotter pins missing, holds should face rear); sockor rips, mildewed, broken seams, rotted CANVAS, BOWS & STRAPS — Large holes tubes broken; buckles broken, missing; ing. Bows broken, missing; bow stake ets ripped. Lashing hooks broken, misstorn, metal tips missing. End curtain eyeing. Ropes and straps missing, broken, threads, missing, dirty, grommets miss-



it around onto surrounding parts. around that seal or gasket. But a leak confuse seeps with true leaks. A seep will only dampen or stain the area right will show a poth of running fluid or fling engine compartment, remember not to Before looking underneath and in the

SEEP

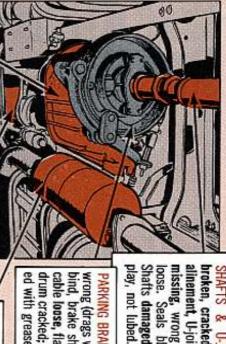




ed or loose. cross tube brackets cracking, suspension & seat cap screws loose or miss-Loose, bolts missing, leak REAR SPRING SEATS -

SPRING SEATS

OFTEN!



mounting loose, linkage loose.

engine Oil PAN — Leaks, dented, dirty (caked w/mud or dirt), plug loose, bolts loose.

missing, wrong bolt used, bolts loose. Seals blown or missing. Shafts damaged, too much radia alinement, U-joint or flange bolts broken, cracked, binding, out of SHAFTS & U-JOINTS -U-joint

bind, brake shoe lever bent or cracked, cable loose, flange bolts loose or missing, drum cracked; lining worn to rivets, soaked with grease or oil. wrong (drags when fully released), shoes PARKING BRAKE - Won't hold, adjusted

rusted out. holes, clamps loose, MUFFLER — Leaking,



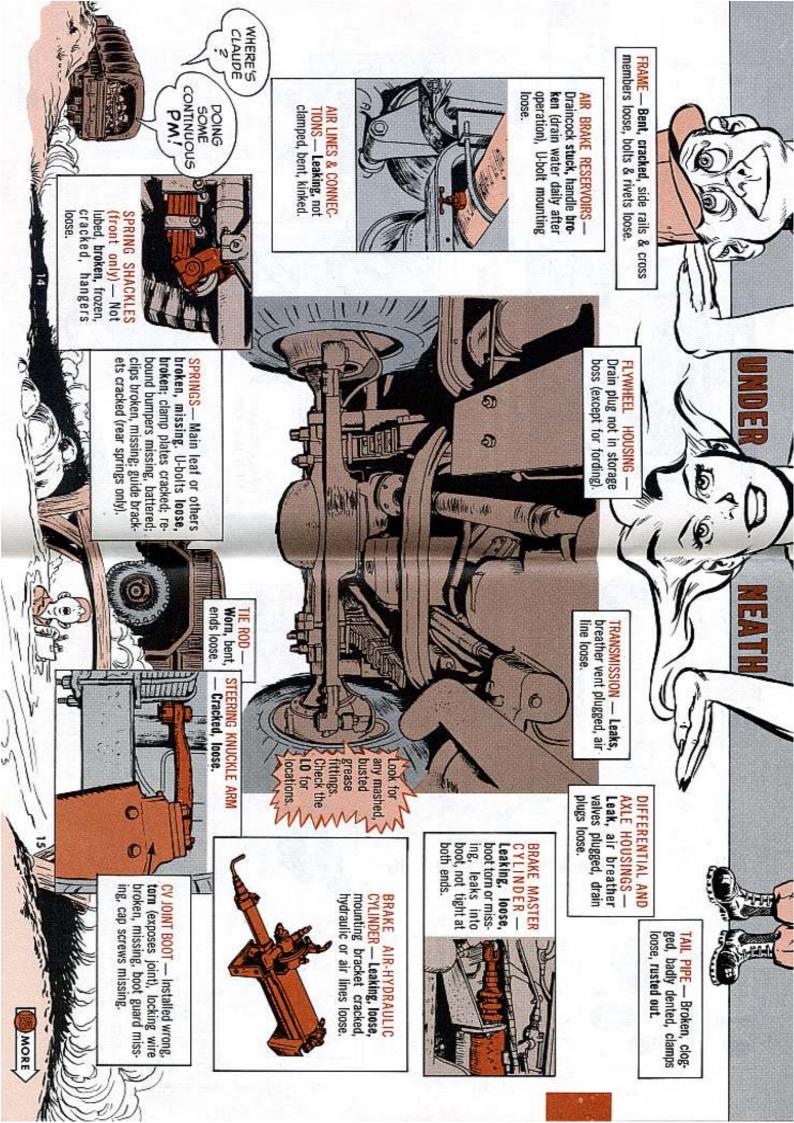
& safety nuts loose, Cracked, broken, bolts ENGINE MOUNTS-

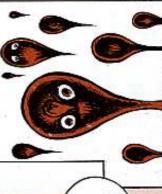


loose or broken. PORT — Cracked, bolts RADIATOR MOUNTING SUP-









ON OPERATING CHANGED BASE OIL GETS

> cracked, clamps loose, adap-CRANKCASE BREATHER (die-sel & multifuel) — Tube

or damaged

21-1/8 inches from screw

OIL PRESSURE GAGE SEND

loose, mounting loose, bro-UNIT — Connections (Multifuel FULL mark is Multifuel = 6680-887-1334

Gasoline = 2805-737-6338 Diesel = 6680-974-7624

Should be: FSN . .

0

DIPSTICK — Wrong kind.

FULL mark), oil filler cap missing (below ADD mark) or too high (over CRANKCASE OIL - Level too low

CYLINDER HEAD (ROCKER gaskets leak ARM) COVERS - Cracked

ing; head gasket leaks, cap screws loose or broken. HEAD BOLTS — Loose, miss-

(EYES) LIFTING cracked BRACKETS Broken,

RADIATOR SUPPORT RODS Missing, loose.

0

4 4 ...

broken. overflow tube damaged, hose above coolant level cock; coolant mashed, clogged, debris, stay rod cracked, spring clamps loose, core clogged with cock rusted, won't turn; cap miss-RADIATOR — Core leaks, fins bent ing, cap not sealing, chain missing dirty; water

WATER INLET AND OUTLE MANIFOLD ASSEMBLIES

Cracked, bolts loose.

lapsed, swollen, loose cracked, soft spots,

RADIATOR HOSES - Leak

tor pulley — not matched. Multi should be 1/8-1/4 inch deflection badly frayed, cracked (twist to DRIVE BELTS-Missing, broken, halfway between fan and genera wrong adjustment —

check),

fuel engine deflection = 3/4 inch

warped; inspection plug rusted; pulley loose, bent, cracked, steady, connections loose, housing GENERATOR - Won't put out, unmounting bolts loose.

trozen,

ent on -IA engine), fuel supply

pump, heater body, ignition unit

tilter, ground

mountings on spark plug, spray

present) — Loose connections or MANIFOLD (FLAME) HEATER (IF

nozzle, solenoid valves (not pres-

EXHAUST Leaks, loose, broken, MANIFOLD

studs or nuts missing. FLANGE - Loose, broken; EXHAUST PIPE MOUNTING

gasket blown. studs or nuts missing,



support bracket loose or cracked connection loose, rubber connecpunctured, clamps loose, lube line not present on -1A engine) tors ripped or loose, exhaust elbow & multifuel) — Air cleaner tube TURBOSUPERCHARGER — (diese



17

BRACKET — Cracked, COMPRESSOR MOUNTING loose.

sor pulley loose, pulley cap screws drive belt tension (should be 32 loose, crankshaft end play, air inand crankshaft pulleys), compresinch halfway between compressor AIR COMPRESSOR — Leaks, wrong





CLEANED MORE OFTEN WHERE

ARE UNUSUAL CONDITIONS WEATHER NEED TO BE

FILTERS

COMPRESSOR GOVERNOR Seal missing, broken;

be used when working under hood); supwon't work, stencil missing. (Catch must HOOD — Safety fastener hook missing,



ing, connections loose or dirty ings loose, seals broken or miss-GENERATOR REGULATOR-Mount-

or 34 full), leaks, tanks rusted, con-1/4 inch above filler screen bottom ERVOIR — Wrong level (should be STEERING GEAR HYDRAULIC RES

finger tight for reservoir and steer-

nections loose, wing

nuts not

nections loose BUTION BOX - Con-TURN SIGNAL DISTRI-

WIRES & CONNECTIONS-

ed or worn. Damaged, loose, badly fray-

HYDRAULIC POWER CYLINDER—

Leaks, loose mounting.

nector mounting loose. dirty, rusted; cable damaged, loose; connections STARTER MOTOR—Bracket linkage loose, solenoid con loose,



breather hole), breather vent plug level (1 inch below filler plug or STEERING GEAR CASE -- Wrong

gear case & steering column) ged, spool valve leaks (grease on

strainer dirty, clogged.

BRACES cracked

> Loose, PANEL

bubbles in radiator) leaks (hissing sound — or air Compression or water CYLINDER HEAD AND BLOCK

HEADLIGHT

clamps loose, inlet tube mounting cover loose, nuts missing, hose OIL COOLER (Multifuel) — Leaks,

seated properly (TB 750-933-1/4, Article 142.) (see log book), element not plugs frozen, not serviced OIL FILTERS — Leak, drain

ing loose, broken. Connections loose, mount-ACH SENDING UNIT -



8





SEAL WIRE-Missing ENGINE GOVERNOR

ing, nut loose, falling to pieces, tooth-type (star) lockwasher miss-ing, painted over, dirt caked up. ENGINE GROUND STRAP (5)—Miss

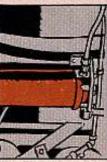
ed, kinked, nozzles leaking, sel, multifuel) - Loose con-FUEL INJECTION PUMP (die nections, leaks, lines crush-



seal leaking

leaks, shaft loose, bearing WATER PUMP — Gasker

before starting. Leaks, to be drained daily PRIMARY FUEL FILTER —



SECONDARY FUEL FILTER (diesel and multifuel) — To be drained if too much in primary filter. water or dirt found



sel & multifuel) - Cables FUEL SHUTOFF VALVES (die-



20

THROTTLE LINKAGE—Binds, loose, rod cracked



GASOLINE

DISTRIBUTOR & COI

cracked, screws loose cables loose, cover cam lobe squeaks, pri mary wire loose ASSY (gas) — Dirty

ENGINES.

FUEL

stripped. frayed or worn, nut SPARK PLUG CABLES (gas) — Loose, badly

manual priming lever won't loose; fuel line leaks, loose; FUEL PUMP (gas) - Leaks

(gas) - Leak, loose. CARBURETOR LINES

FUEL FILTER (gas

Mounting bolts — Drain daily in

loose, fuel lines

loose or leaking

cap screw loose. drain plug frozen CHOKE WIRE (gas) — Binds, broken, loose, adjusted wrong for open & close

positions



chain missing, oil cup dirty, filter mesh dirty, mounting Clogged, cap CRANKCASE BREATHER (gas missing

connected, cracked, collapsed; mount-(below bead level), hose leaks, not Dirt over 36 inch deep, oil cup empty ing bands loose, cracked; hose clamps CARBURETOR AIR CLEANER (gas) -

> or open (must be vertical unless fording), control wire Broken, valve rusted shut SHUTOFF VALVES (gas) -CRANKCASE VENTILATING



up or down position. Won't work, won't hold in TURN SIGNAL LEVER -

> DASH WIPER CONTROL Missing, loose, binds.

Rusted, glass loose. WINDSHIELD CHANNELS -

work, dimmer switch broken, dash lights won't work, headlight hibeam indicator missing, painted



move freely, notches won't hold. THROTTLE - Won't

column) - Won't work. HAND CONTROL (BRAKE) VALVE (on tractor steering

CLUTCH — Wrong free-play play, return spring missing,

adjustment (should be 11/2 to 2 inches free travel), no free-

enough to hamper vision WINDUM — FORged

missing; fastener studs broken, missing. grab handles or lashing hooks broken, pulled away from pillar post channels CANVAS & FASTENERS — Canvas ripped,

won't open and close right, latch won't work right (driver's side); hinges loose stripping missing; glass loose in channel broken, missing; drain holes clogged (interferes w/driver's vision); weather-DOORS - Window broken or cracked

22

not readable. DATA & CAUTION PLATES Missing, painted over,

Latch broken, pubs missing (TM-10, L0, SF 91, DD Form 518...see vehicle data plate). MAP COMPARTMENT -

move freely. EMERGENCY STOP CON-(diesel) Won't

weather use only) — Leaks PRIMER PUMP KNOB (cold

ACCUMULATES

binds.

IN THE CAB

GET THE TRASH THAT

WINDSHIELD—Crack longer than 2 inches, badly disblock vision (on driver's side) colored, clouded enough to

MANUAL WIPER CONTROLS Bind, missing, loose.

slowly).

torn; air

line leaks (operates

blade arm loose on shaft, rubber stripping either side, missing

Won't work, blades hit weather-WINDSHIELD WIPER MOTORS —

WINDSHIELD FOLDING broken. KNOBS — Bind, loose,

ing screw broken WINDSHIELD Missing, rusted, won't open, clamp-III ADJUSTER -

rusted, won't work LOCK-HANDLE — Missing, WINDSHIELD INNER FRAME

CHOKE CONTROL (gas) Won't move freely

MORE

+ Charles

MIRRORS — Don't hold position, missing broken, dirty, obstructed, clouded enough to block rear vision, can't be adjusted.

CRANKCASE VENTILATING SHUTOFF CONTROL (gas)—Missing, won't work valves,

Missing, won't work valves, rusted, won't move freely.

AIR SUPPLY VALVE — Won't work, leak, cap missing, mounting loose.

SEATS — Cushions badly torn, adjuster handle doesn't work.

CAB

cowl ventilators—Rusted, won't work, lever broken or bent.

DOOR HANDLES—Missing, broken, loose, door won't stay shut.

STEERING COLUMN Loose, clamp broken.

FLOOR — Bolts missing, floor boards bent or loose.



OPERATING

WINCH CONTROL LEVER

torn, excessive vibration.

usual noises, knob missing, boot

TRANSMISSION GEARSHIFT LEVER
— Sticks, jumps out of gear, un-

PARKING BRAKE LEVER—
Too much free travel (should hold on hill with 1/3 lever travel in reserve, or stop vehicle in 60 feet at 10 mph); tension adjusting knob binds, drags.

TRANSFER SHIFT LEVER — Stuck, loose, bent, won't engage front wheels (check on slippery surface), excessive vibration, slips out of gear, unusual noises.

Stuck or bent (must be disengaged before driving).

PTO CONTROL LEVER -

MANIFOLD HEATER (diesel & multifuel)—Won't work.

ANTI-DIESEL VALVE CON-TROL (gas) — Not connected, won't stop engine, causes rough idle.

FUEL SHUTOFF VALVE CONTROL KNOB (diesel & multifuel) — Won't stay in STOP
position, won't stop engine.
spongy, pulls, chatters,
diese drags.

CHECK LOSS OF POWER AN

POWER AND
BLACK SMOKE
ON MULTIFUEL
ENGINES PROBABLY
MEANS DIRTY
AIR AND FUEL
FILTERS.

clutich — Chatters, slips, grabs, sluggish, drags, gears clash.

STARTER PEDAL (gas) — Won't work.

loose.

IGNITION SWITCH — Broken,

START BUTTON (diesel & multifuel) — Won't work

AIR PRESSURE BUZZER — Does not sound below 65 PSI w/igni-tion on.

ACCELERATOR PEDAL —
Sticks, loose, boot torn or
missing.

HORN BUTTON — Won't

work, loase.

FRONT WINCH CONTROL LEVER — Sticks, jumps out of gear, exces-

STEERING WHEEL — Loose badly bent, core broken.

sive vibration, unusual noises.

(AIR FILTER INDICATOR (diesel & multifuel) — Red plunger visible, lock won't work.

ENGINE — Unusual noises stalls, misfires, overheats.

working, leaks, hoses not connected to defroster.



allowable RPM . . . TACHOMETER — Exceeds max de:

multifuel = 600-650governed: = 550-600 = 400-450

= 3100 = 2100-2200 = 2750-2800

multifuel

should be no drop within 1 minute 10 minutes at 1000 RPM), compressor (should be between 115-125 PSI after AIR PRESSURE GAGE — Wrong pressure (stop engine w/pressure at 125 PSI won't kick in at 105 PSI, pressure fades operate brake to reduce pressure)



INSTRUMENTS &

GAGES—Don't work right, lenses broken, cracked, clouded

OIL PRESSURE GAGE — Below Normal (should be 15 PSI at idle, 50 PSI at 1500-1800 RPM),

doesn't work.

0

PUBLICATIONS

TM 9-2320-211-10 (Mar 63) w/5 changes .C2 (Jun 64), C3 (Jan 65), C4 (Feb 66). (Oct 66), C6 (May 67), (C1 rescinded)

TM 9-2320-211-20P (Mar 63) w/2 changes. TM 9-2320-211-20 (Mar 63) w/3 changes .. .CI (Jul 64), C2 (Feb 66), C3 (Nov 66).

LOG DOOK — TM 38-750 is guide for forms to keep in vehicle log book binder. You'll also need LO 9-2320-211-12 (Jun 64)

a DA Form 2404 worksheet and the vehicle's own TM and LO to make your inspection.

Basic Lag book binder contains these forms:

DA Form 2408-3 DA Form 2408-1 DA Form 2408 Equipment Daily/Monthly Log Equipment Maintenance Record Equipment Log Assembly

DA Form 2408-5 (Organizational)

...Equipment Modification Record DA Form 2408-14.... Uncorrected Fault Record DA Form 2408-8. DA Form 2408-10....Equipment Component Register DA Form 2408-7... ... Equipment Acceptance & Equipment Transfer Repor Registration Record

ESC — Your vehicle log book must also have the ESC manual published for it. That means one of the following — all except the /12 are dated August 1966.

TM 9-2320-211-ESC/1M41, M54, M55 cargo Iruck TM 9-2320-211-ESC / 8.....M54A2, M55A2 cargo TM 9-2320-211-ESC/7.....M54A1 cargo truck

screw too tight or loose (should be enough drag to

not lubed.

DRAG BRAKE — Adjusting

stop drum turning when

cable tension released)

TM 92

TM 9-2320-211-ESC / 11 __MS43A2 medium TM 9-2320-211-ESC / 10....M51A2 dump truck TM 9-2320-211-ESC/9... ...M52A2 tractor trud

M291A2C, M291A2D expansible van truck W0 / W TM 9-2320-211-ESC / 12 (Sep 66).....M291A2. wrecker truck

TM 9-2320-211-ESC/6. IM 9-2320-211-ESC/5.

MS2A1 tractor truck M51 dump truck TM 9-2320-211-ESC/4 TM 9-2320-211-ESC/3.

M246 wrecker truck MS2 tractor truck TM 9-2320-211-ESC/2

M62, M543 medium

wrecker truck

on drum, laid wrong cross wound, secured wrong broken), rusty, kinked ding (Over 20% of strands loosely wound on drum, CABLE - Dirty, dry, shred-

> disengage from drum in un-(plunger should completely DRUM LOCK POPPET LATCH
> — Binds, not adjusted right

w/winch not operating (it

Binds, not lubed, engaged

DRUM CLUTCH LEVER —

locked position). stubborn, should be disengaged by relaxing drum ten sion w/PTO lever).

END BEARING

Wrong oil

HOUSING

level, leaks

WRECKERS ONLY

over, missing.

CAUTION PLATES —

Not legible, painted

ROLLERS - Bind

wheels out of round, TROLLEY TRACK — Broken, not lubed.

stowed

ing, not hook miss

right.

Broken,

CHAIN

cracked.

SWIVEL SHEAVE & FRAME screws loose or missing. tension, cable guard missing, Loose, won't travel freely under

loose.

not lubed, mounting screws loose LEVEL WIND — Lock knob binds Cracked. tension pulleys not adjusted right,

> PORT BRACKETS -END FRAME & SUP-Cracked, cap screws cracks, leaks. loose cap screws, Wrong oil level GEAR CASE & COVER

to truck on downhill pull), overheats (cover too hot to hold in neutral (weight equal AUTOMATIC BRAKE — Won't

REMEMBER THOSE GREASE

rusted together, corroded, alloy — test w/magnet), trozen in shaft (check free play w/fingcompartment, cotter pins missing er), extra pin missing from map SHEAR PIN - Broken, wrong type, (should be aluminum from either end. missing,



FOR THE MECHANIC

OPERATOR
CAN HELP THE
MECHANIC BY
REPORTING ANY
SIGNS OF TROUBLE





PRONTO



STEERING — Pulls, wanders, shimmies, too much free play, leaks, hard to steer.

SPARK PLUGS — Loose, corroded, not all same heat range (all hot plugs = FSN 2920-835-7724 or cold plugs = FSN 2920-752-4258) (TM 9-8638, page 13).

WHEEL BEARINGS — Loose, bad, not lubed right (check lube every "S" service).

BRAKE LININGS & SHOES— Worn, loose, not working right.

BATTERIES — Specific gravity below 1.225 at 80°F (check w/hydrometer).

In tropics, electrolyte not diluted to 1.200-1.225 for full charge or specific gravity below 1.135 (Hydrometer corrected for 80°F) (TM 9-6140-200-15, page 39), white dot missing.

TRANSFER SHIFT LINKAGE— Not properly adjusted.

WINCH AUTOMATIC BRAKE— Adjusting bolt binds, rust inside case (remove inspection cover).

GEAR CASES LUBE LEVEL (Transmission, Transfer, Differentials): should be ½ inch below filler plug when cold; level w/plug when hot.

BRAKE MASTER CYLINDER
Level too low (should be low top).

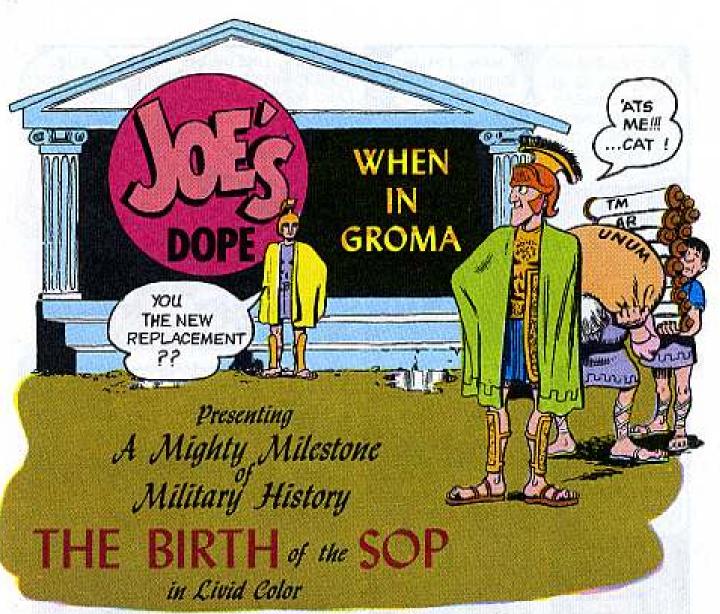
CARBURETOR
ADJUSTMENT
(gas) — Idles
rough, too fast
or too slow;
does not accelerate right.

IGNITION — Poorly timed (should be timed w/timing light).

DISTRIBUTOR BREAKER POINTS

(gas) — Points pitted, wrong gap
(should be 0.022 inch), wrong
spring tension (should be 17-21
oz).

ANTIFREEZE — Not enough protection (in season).









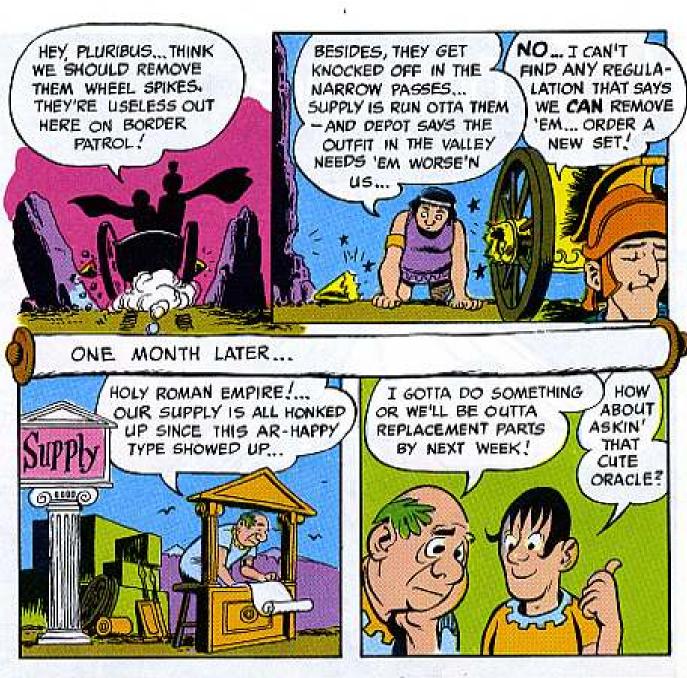


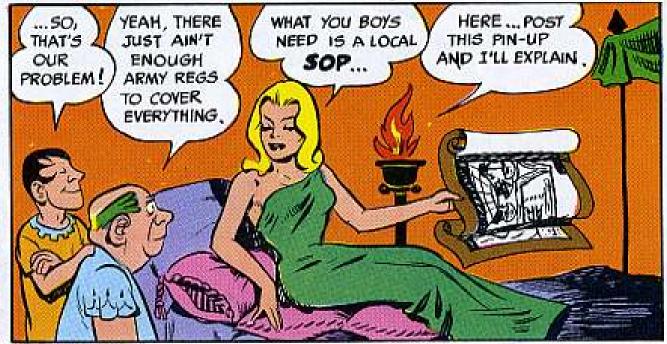


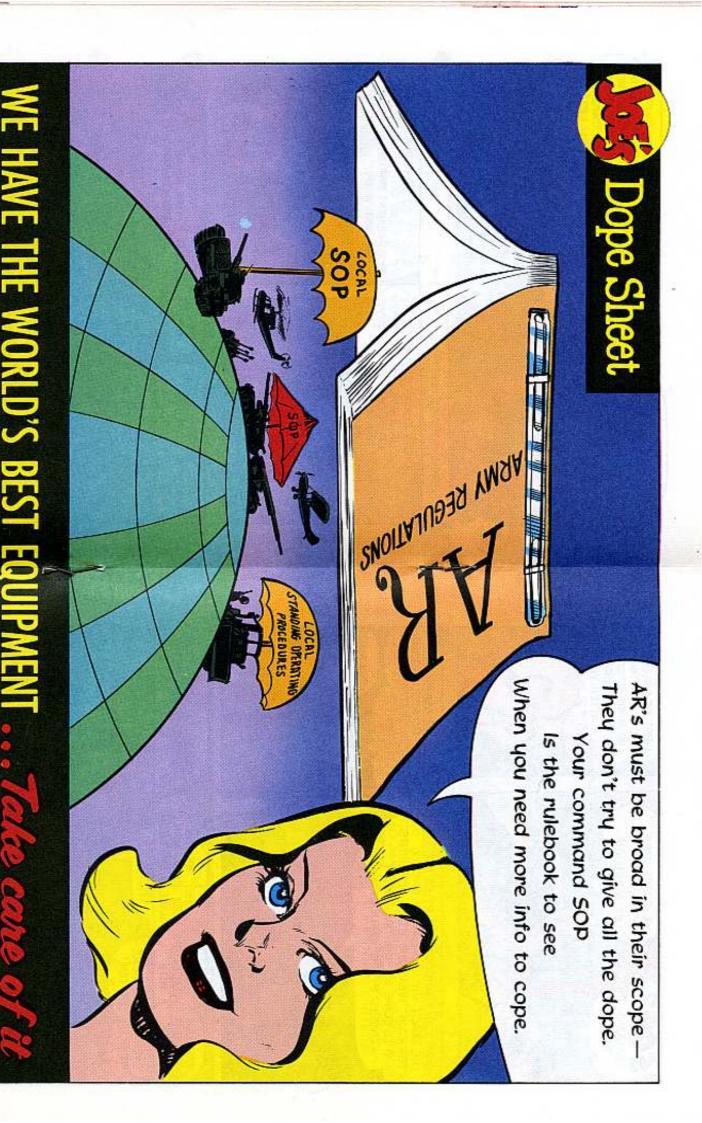




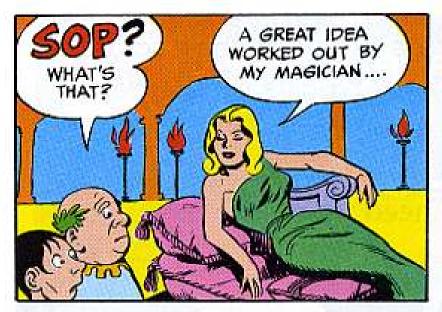








IF YOU WANT TO DISPLAY THIS CENTERPIECE ON YOUR BULLETIN BOARD, OPEN STAPLES, LIFT IT OUT AND PIN IT UP.









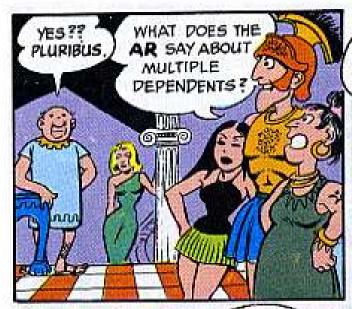




















PUBS

A selected list of recent publications of interest to Organizational Maintenance Personnel. This is a list compiled from recent Adjutant General's Distribution Center Belletins, for complete details see DA Pam 310-4 and Ch 5 (10 Feb 67) and DA Pam 310-6 and Ch 3 (April 67).

TECRNICAL MANUALS

TM 5-3695-214-15, Mar, Saw, Chain: Proum Mir Dryn, 90 Lb Oper Fres; 24 In Cut; I Man; Bor Frame. W/Handle (Remington Arms Mdl 67). TM 5-4110-210-14, Mor, Refrig Unit, Mech, Ponel Type: 5,000 BTU/Hr Cop. for Portable 150 Cu Pt Refrigi Type I GED, (Thermo King MdT Q5G), Type II, Elec Mir Drvn (Thermo King Mdl OSEM21 TM 5-4110-210-25P, May, Refrig Unit, Mech Type: 5,000 BTU/Hr Cop, for Portable 150 Co Ft Refrig: Type I, GED, (Thermo King Mdl QSG), Type II, Elec Mir Drvn (Thermo King Mdl Q5EM2). TM 5-4320-237-15, Apr. Pump. Contrilugal: GED; 50 GPM, 100-M Head, Flore Liquid, Bulk Transfer (Barnes MdI-QM-2-28002). TM 5-6115-351-25P, May, Gen Sel, GED, Air Cooled, 7.5 KW, 28 V, DC, 2 Wire, Wheel Mid, Winterized (Atlas. Polor Mell MCIII) TM 5-6125-209-15, Apr. Motor Gen Power Supply: Gen. 60 KW, AC, 120/ 208 V. 240/416 V. 2 Phose, 4 Wire Sve, 400 Cyr. DC Component Output, 28 V, 10 Amp: Motor Input, AC, 120/ 208 V, 240/416 V, 3 Phose, 60 Cyc. Skid Mid (John & Hollingsworth Co. Mail JHMX60G). TM 5-6665-203-12, Apr. Detecting Set. Mine: Aural and Visual Indication, 24 V. DC. Oper Pwr; Muhral Inductiona, Phose-Selective Bridge Type Detector, Truck Mid (Wurlitzer Mdl WC-324).

MODIFICATION WORK ORDERS

MWO 9-2815-210-30/1, Mar, Truck, 5-Ton, 6x6, Cargo, M54, M55; Chassis, M61, M63, M139D; Dumpi M51; Yon, Expansible: M292; Wrecker: M543; 21/2 Ton, 6x6, Cargo: M35A2, M36, Chassis: M44, M45, M46; Repair Shop M185; Tonk, Gas: M49C; Tank, Water: M50; Tractor: M52; Van: M109A1-Replace Cylinder Head Gaskets and **Yalve Spring Seats.** MWO 10-8340-211-30/1, Apr., Tent. Gen Purpose, Medium, and Tent Liner, Medium, Mod of Tent and Liner to Prevent Liner from Contacting Slovepipes of Tent Heating Stoves. MWO 11-6230-219-30/1, May, Searchlight, DC, 28-Y, 100-Amp, Xenon Type, Infrared and Visible, Yaro Mfg Co. Mdl 9910. MWO 55-1510-205-30/1, May, UH-1 MWO 55-1520-209-30/9, May, MWO 55-1520-209-30/22, May. CH-47.

TECHNICAL BULLETINS

MWO 55-1520-209-30/40, May,

TB 34-9-249, May, Marking of Mil Vehicles, TB 55-1500-206-20/4, Jun. UH-1A-1B and UH-1D. TB 55-1500-206-30/1, Jun. UH-1A-18-1C-1D. TB 55-1500-302-25, Jun, All F/W, R/W-Components to be installed, Retained W/Uninstalled A/C Eng. TB 55-1520 202 20/4, Jun. CH-34. TD 55-1520-205-20/7, May, CH-21. TB 55-1520-206-30/2, Jun, OH-23. TB 55-1520-209-20/21, Jun, CH-47. TB 55-1520-214-20/11, Jun, OH-6. TB 55-2800-200-30/1, Apr. UH-1A-18, QV-1.

MISCELLANEOUS

DA Cir 725-11, May, Removal of Conponents from Assemblages and Sets of Equip. DA Cir 750-20, Jun, Implementation Instructions for changes to TAERS. LO 5-3695-214-15, Mar, Saw, Chain: Peasur Mir Drve, 90 Lb Oper Pressure; 24-In Cut. I Man; Bareframe; W/Handle (Remington Arms Mdl 69). LO 5-3805-237-12-1, -2, -3, May, Grader, Road, Motorized, DED 13,300 Lb Pres at Blade; 12 Ft Blade; 6 Wheels, 4 Driving, 2 Steeroble; Leaning Front Wheels; W/Scarifier (Letourneau-Westinghouse MdI 440 HA] W/Eng GM MdI 4057. LO 5-3810-232-12-1, Mar, Crane, Wheel Mtd, 20 Ton (American Hoist & Derrick 23801 LO 5-4930-207-12, May, Lube and Servicing Unit, Per Oper: Trailer Mid-23 CFM Compressor, Recip, Gos Drvn. [Henry Spen Mdl 901765-1] LO 5-6115-345-12, Mar, Gen Set, Dul Eng: 15 KW, 60 Cyr, AC, Siegle Phase, 3 Wire, 120/240 V; Single Phase, 2 Wire, 120 V; 3 Phase, 3 Wire, 120 V 3 Phase, 4 Wire, 120/208-240/416 V. Convertible to 12.5 KW, 50 Cyc, 3 Phone, 4 Wire, 120/208 /240/416 V: Mon-Winterized (Bogue Mdl 6113) (SF-15-MD) W/Herceles Eng Mdl DIPRIER. LO 5-665-203-12, May, Detecting Set, Mine: Aural and Visual Indication; 24 Y, DC, Oper Power; Mutual Induclance, Phase-Selective, Bridge-Type Detector, Truck Mtd. (Wurlitzer Mdl. WC-324). LO 10-3520-202-24, May, Shoe Repair Shop, Troiler Mtd, 2 Wheel [York Astro Mdl D8700541). 58 740-1930-97-602, May, Borges and Lighters, Cargo Barge, Deck Cargo, Nonpropolled, Steel, 570 Ton, 100 Ft. Design 7005.

ELECTRONIC PUBS GO PINPOINT

You'd better hurry with that order for Army electronics equipment manuals so you won't miss any because all of those pubs dated after 15 Sep 67 will be on pinpoint.

The new pinpoint forms are DA Form 12-50, Requirements for Army Radiac and Fixed Radio Equipment Publications, and DA Form 12-51, Requirements for Army Field Radio Equipment Publications.

If you're ordering on both of these forms, staple them together and mail them to the U.S. Army Adjutant General Publications Center, 1655 Woodson Road, St. Louis, Mo. 63114. Only one copy needs to be submitted through channels to AG.

DA Circular 310-34 (May 67), gives you the go ahead with these new pinpoint forms.

Appendix I to SB 700-20 gives you the LIN's for your electronic type numbers so you can get the nomenclatures. FILTER/SEPARATORS . . .

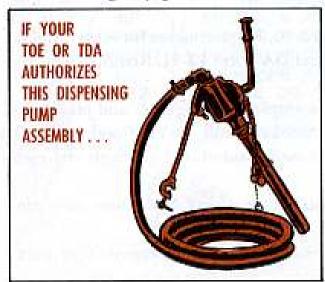


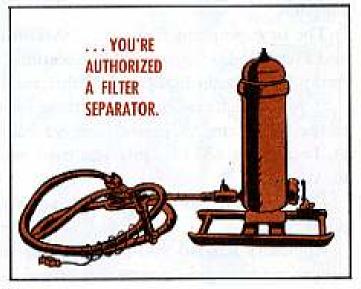
You've heard what a good job those 15-GPM liquid fuel filter/separators, FSN 4330-051-0666, are doing. Now, the question is — Does your unit rate one? Filter/separators, listed in Fed Cat C4320/30-IL-A (1 May 66) are issued as a Class II item to units refueling light aircraft and helicopters, and as a Class IV item to units with special refueling problems.

So, whether you can get one depends on your TOE or TDA. If you're authorized Dispensing Pump Assembly, hand-operated piston type, FSN 4930-276-0087, you got it made. You can request a filter/separator for each pump assembly.

Here's the paper route you take to get this fuel-cleaning gem:

Buck a letter to your headquarters asking that this item be included in your TOE or TDA. Your authority is the emergency poop in AR 310-49 (23 May 66) and AR 310-31 (13 Apr 66). Be sure you eye AR 310-34 for guidance and use of the emergency provisions.



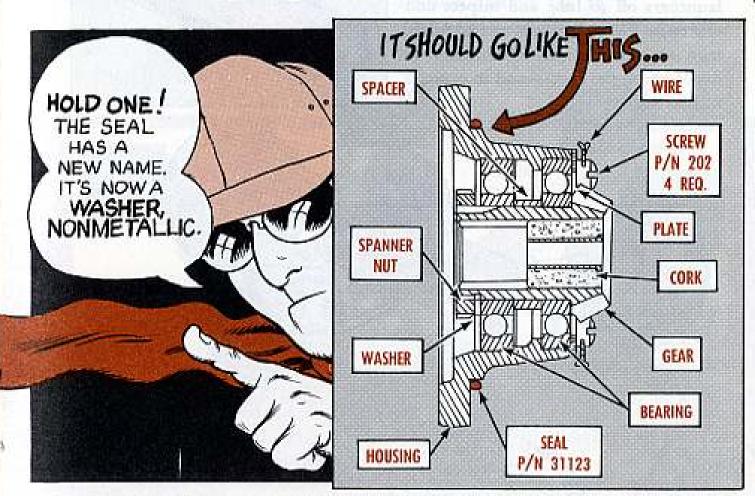




We can't find the FSN for the oil-stopping seal that goes between the generator drive-assembly-housing flange and the rear case-mounting pad of our Beaver engine. We can't find a "stack up" that shows how it should go, either. Can you help us? SFC L. J. N.

Dear L. J. N.,

You're looking for P/N 31123, FSN 5330-290-4850. It's listed in TM 55-1510-203-20P (May 67) fig 80, index 23.



The seal goes on the housing and shaft gear assembly.

One more point. Your 20P shows only one bearing, but modifications have added a second one. Windy



XM16 AND XM21 SUBSYSTEMS:

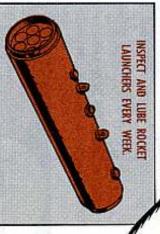
bomb rack (FSN 1095-141-9328) on your XM16 and XM21 subsystems How're you going to keep the MA4A

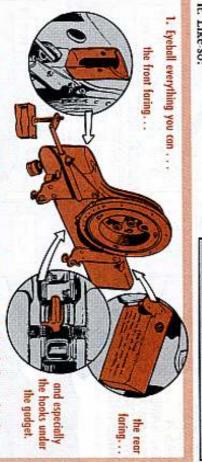


healthy when you're not allowed to get nside it?

Here're a couple casy ways:

doublecheck the rack - and to exercise take an extra couple of minutes to otherwise PM the pulleys and so forth, launchers off to lube and inspect and Every week when you take the





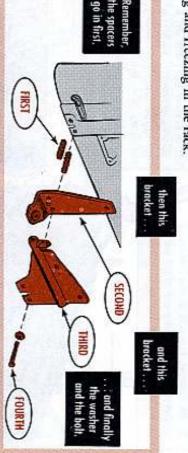
If you find parts busted, hent or missing, get your DSU men to check it further and make the fix-it. Never use a doubtful rac



2. If everything stacks up OK, gymnasticate cocking ring a dozen times or so. This'll siderable-like. the rack by cocking and discharging the slim down your pilot's ejection woes con-



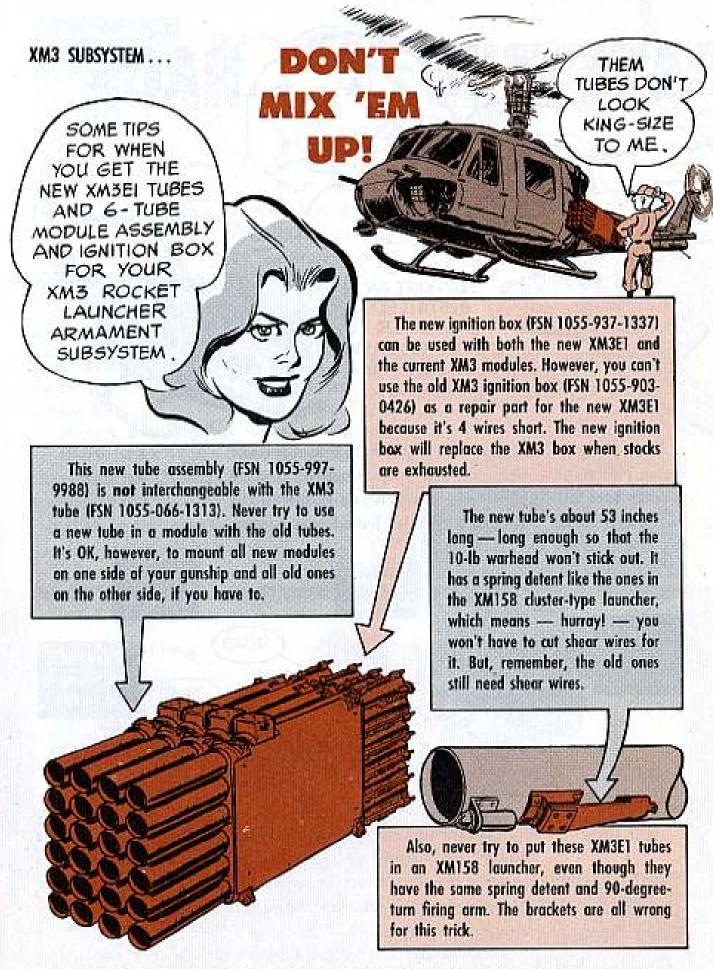
reason, be mighty sure you put your precision ground ing and freezing in the rack. racks. Otherwise you could end up with the hooks squeezspacers back on . . . just so . . . when you re-install the Only thing is, any time you remove the racks for any



DUST COVER

of the rack. Two minutes' work here could save all kinds of trouble later on. piece of plastic or a tarp or something to protect the underside parked on a dusty or sandy rotor-blown flight line, use a Another tip: Every time the Huey gets hosed down or gets

cover causes binding when you install the rack-just get cover on the right side next to the cocking ring-and if this rid of it. Incidentally, if you get a bomb rack with a small dust



Here's another tip: Hang on to all serviceable components of damaged XM3 modules. They just might come in handy for speedy repair jobs—to keep your launcher subsystem fight-ready.

TOOL IN THE GROOVE

Dear Editor,

No sweat getting the grooves clean on your M60 machine gun's gas piston with the simple tool we made for the job. Just squeeze the tool with one hand and rotate the piston with the other . . . and, presto, hound's tooth clean!

The tool's easily made out of a piece of cold-rolled steel or spring wire, say about 3/16 inch thick. Make the tool about 6 inches long and sharpen one end of the wire to a flat tip (like a chisel end) to fit into the groove—say about 1/16 inch thick.

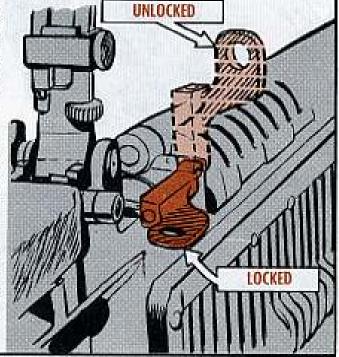


(Ed Note — Just the thing for any arms room — and especially for chopper outfits using any of the M60-series machine guns!)

ROCK THE LOCK

A little neglect can go a long way when changing M60 7.62-mm MG barrels. And it'll be the barrel that does the traveling if you forget the barrel lock check called for in Table 3-1 of TM 9-1005-224-12 (Sep 65).

This is extra important at night, when the forgotten barrel locking lever can't be seen sticking up in the unlocked position. So finger-feel the lock while you tug and twist on the end of the barrel. This will save you the trouble of hunting for that barrel after the first round . . . and maybe save your hide to boot.





Here's some advice from guys who're sweating it out in the delta section of Vietnam with the M79 grenade launcher:

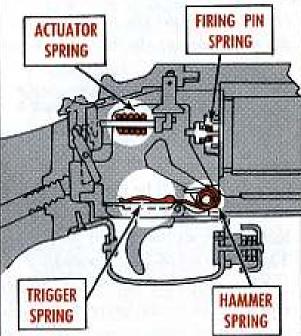
Remember the springs in the receiver group when you give your weapon the daily — not weekly! — cleaning and lubing job it needs in a hot, moist climate.

High humidity and sweat weaken lube oil in short order and unprotected parts like these hidden springs soon rust up and bind.

No trick to the job. Just do it regularly and thoroughly, like this:

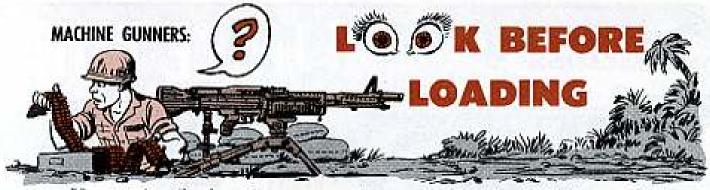


Remove the receiver group from your weapon. Then use the chisel-edge artist's brush (FSN 8020-191-3970) to work CR cleaning solvent on and around all the parts — and especially the trigger spring, hammer spring, actuator spring, latch lock spring and the like. Not forgetting the firing pin spring, either.



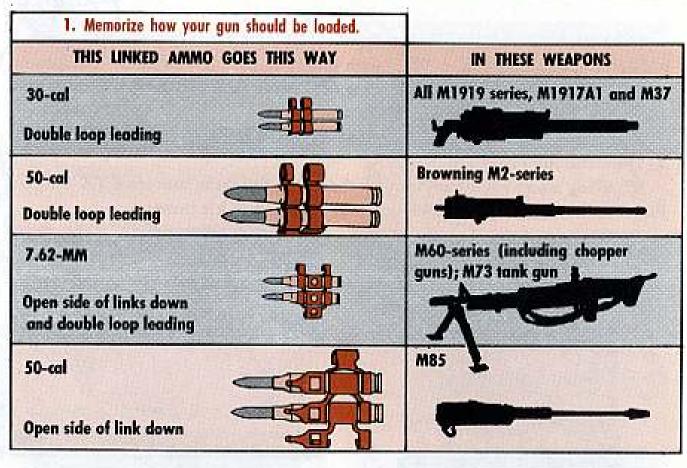
Let the receiver and brush dry for 3-5 minutes. Then use the same brush to paint a light coat of PL Special (FSN 9150-273-2389 . . . 4 oz can) on all the parts, again concentrating on the springs. Light coat, the man said.

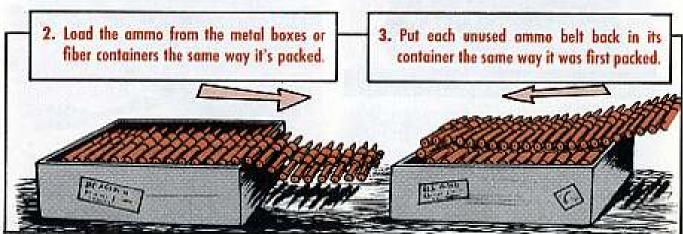
This should do it . . . for a day, anyway.



You can't afford to be wrong when you're loading linked ammo in your machine gun—not with Charlie lurking about!

If you goof and get the belt wrong-side up—wow!—you'll get off one shot, but that's all. The belt-holding pawl will bust and your gun will be out of the fight!







need. You have to add some and take some away. tool kit like it says in SB 11-607 (Sep 66), make sure you have the tools you Before combining TK-115/G with the TK-101/G electronic equipment

115/G, and SB 11-607. Right now, your best guides are SM 11-4-5180-R09 (Feb 62) for the TK-

Here's a list of names and stock numbers for the tool kit items: So, string along for a rundown on the setup of the new converted TK-101/G.

er, w/1 fixed tray; 14¼ x 7¼ x 6; SC-D-36305 TOOL BOX, PORTABLE: steel, snap-type fasten-



FSN 5140-678-4805

BRUSH, PAINT: squirrel tail hair bristle; sq



CLOTH, COTTON: cheesecloth; lintless; bleach ed: 36 in wd, 1 yd Ig.



FSN 8305-267-3015

CORD SET: Type SVT, w/ferrule; plastic jacket, 18 awg, 3-pole, 15 amp, 125v cap.



FSN 3439-897-9881

4





FLASHLIGHT: (MX-991/U) tubular case, righ

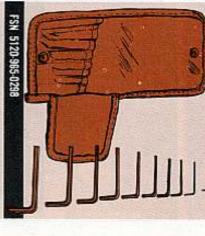


FSN 6230-264-8261

tion; .015 in thk x % in wd x 8256 to 85 ft lg INSULATION TAPE, ELECTRICAL: black, fric



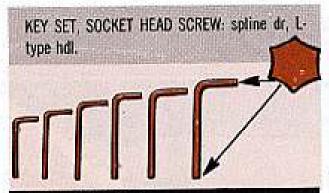
wrenches); w/carrying container.



	*	
1	Mom.	
	1	
	Armig	
	E	
1		
	E	

9716	Ann State wood	Nea
.25	1%-1%	5120-198-5400
050	1%-1%	5120-198-5401
7.	721-761	5120-198-5398
%	1%1%	5120-224-2504
×.	12%-2%	5120-242-7410
77	214-214	5120-889-2162
~	25/211/4	5120-240-5292
2%	2%-21%	5120-889-2163
*	2134-2134	5120-198-5392
*	21/4-21/4	5120-240-5300
22	25%-35%	5120-242-7411
Z	3%-31%	5120-224-4659





FSN 5120-585-6257

Size (Maj dia in)	Nom Arm Ig (in)	FSN
No .060	15%	5120-293-0195
.069	123/2	5120-224-2496
.076	13/4	5120-249-9670
.094	12%2	5120-223-6995
.110	111/6	5120-224-2482
144	25%	5120-277-1724

KNIFE, POCKET: 23/6 in-23/6 in lg cutting blade; screwdriver, wire scraper; w/clevis.



FSN 5110-240-5943

MIRROR, INSPECTION: elliptical; all angle.



FSN 5120-596-1098

PIN STRAIGHTENER, TUBE: 7- and 9-pin. Duro Specialty, No D-200.



FSN 5120-392-8361

PLIERS: diagonal cutting; min, reg nose; w/o stripping notches; 4 in nom size.



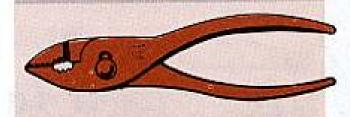
FSN 5110-965-0974

PLIERS: short nose, w/o cutter; 4 in nom size.



FSN 5120-293-3486

PLIERS: slip joint; straight nose; comb jaw w/cutter; reg; 6 in nom size.



FSN 5120-223-7396

SCREWDRIVER: cross tip; Phillips; straight; plastic hdl; no 1 pt size; 3 in nom blade lg.



FSN 5120-240-8716



SCREWDRIVER: cross tip; Phillips; straight; plastic hdl; no 2 pt size; 4 in nom blade lg.



FSN 5120-234-8913

SCREWDRIVER: flat tip; close qtr; plastic hdl; .037 in thk x 1/4 in wd tip; 11/2 in nom blade lg.



FSN 5120-529-0842

SCREWDRIVER: flat tip; plastic hdl; w/pkt clip; .020 in thk x 1/2 in wd tip; 2 in nom blade lg.



FSN 5120-236-2140

SCREWDRIVER: flat tip; heavy duty; blade extended thru wood hdl; .037 in thk x 1/4 in wd tip; 4 in nom blade lg.



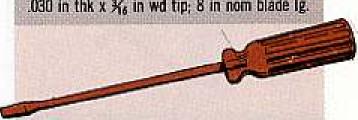
FSN 5120-278-1282

SCREWDRIVER: flat tip; It duty; plastic hdl; .030 in thk x 3/6 in wd tip; 5 in nom blade Ig.



FSN 5120-278-1270

SCREWORIVER: flat tip; It duty; plastic hdl; .030 in thk x 3/6 in wd tip; 8 in nom blade lg.



FSN 5120-278-1272

SCREWDRIVER: flat tip; extra It duty; plastic hdl; .020 in thk x $%_4$ in wd tip; 8 in nom blade |g|.



FSN 5120-729-6393





SCREWDRIVER: dbl offset; .025 in thk x $\frac{1}{2}$ in wd flat tip ea end; 3 in lg.



FSN 5120-287-2129

SCREWDRIVER: dbl offset; .042 in thk x % in wd flat tip ea end; 5 in lg.



FSN 5120-288-9710



SCREWDRIVER, RATCHET: rt angle offset; rt and lf hand turning; 2 blades; Phillips no 1 and 2 pt size.



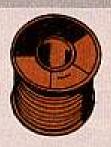
FSN 5120-892-5931

SCREWDRIVER, RATCHET: rt angle offset; .035 in thk x $\frac{1}{2}$ in wd flat tip on one side; .045 in thk x $\frac{3}{2}$ in wd flat tip on other side; $\frac{3}{2}$ in Ig.



FSN 5120-596-0882

SOLDER: lead-tin alloy, rosin core; 1/2 in dia; 1 lb spl.



FSN 3439-555-4629

SOLDERING IRON, ELECTRIC: 115v, 55 watt; 8% in Ig.

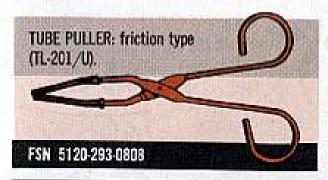


FSN 3439-853-6653

TIP, ELECTRIC SOLDERING IRON: screwdriver shape; 36 in size; 15/2 in reach.



FSN 3439-993-2770







WRENCH, ADJUSTABLE: open end; single hd; steel, chrome or nickel pl; 6 in nom size.



FSN 5120-264-3795

WRENCH SET: (TL-651/U) single socket spanner-screwdriver type; hex.

FSN 5120-542-5799

Size (in)		Min O/A lg (in)	FSN
¥6		6	5120-224-2599
1/12		6	5120-277-1801
14		6	5120-241-3188
%		6	5120-224-2596
11/22	-	6	5120-293-0796
3/6		6	5120-596-1263
%		7	5120-222-1499
1/2		, ,	5120-293-0375
%		7	5120-294-9514





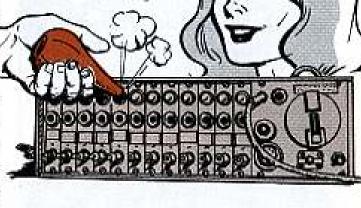


Before thinking bad thoughts 'cause you can't get your SB-86/P or SB-22()PT switchboard's cateyes to roll around for you, make sure there's nothing in them.

Like, f'rinstance, a teeny weeny chip of metal shredded off the lens cover thread can be magnetically attracted to the eye and put it out of business... or bits of dust or dirt can cause the cateye or line signal to stick.

Never use a sharp tool to free the signal. It'll jam the eye and head your switchboard for higher maintenance. Gently and lightly move the signal with your finger to get it to roll.

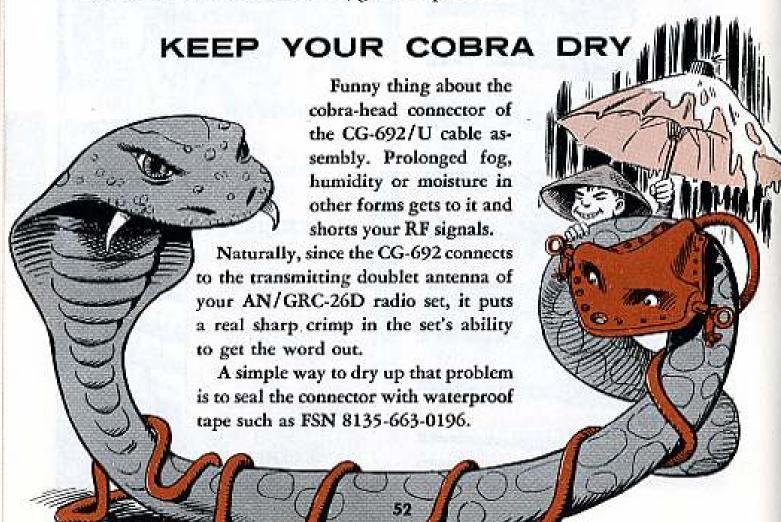
If the lens is cracked or broken, get 'er replaced.



WITH A SMALL

SYRINGE!

YOUR BEST BET IS TO REMOVE THE LENS COVER AND BLOW THE LINE SIGNAL CLEAN





RIGHT A WRONG

You say things don't add up when it comes to a couple of FSN's for parts used with the TV-7 series electron tube test sets? Like TM 11-6625-274-25P (Jun 66), TM 11-6625-274-12 (Jun 60) and the changes to the -12 show the tube socket adapter and one of the test leads with the same FSN - 6625-727-7065.

CONFIDENTIALLY YOU LET THE TEST LEAD KEEP THAT FSN ... AND, GIVE THE TUBE SOCKET APAPTER **FSN** 6625-808-1802!

NO PARTS FOR A PP-1578

If you've been sweating out FSN's for parts like a carrying case, adapter, dust cap, or whatever for your PP-1578()/PD radiac detector chargers, you're going to need a lot of salt tablets.

There are no FSN's assigned to anything but the entire charger. Since the whole charger costs only \$15, it's cheaper to stock just the item itself rather than go through the paperwork and other expense of putting parts in the system.

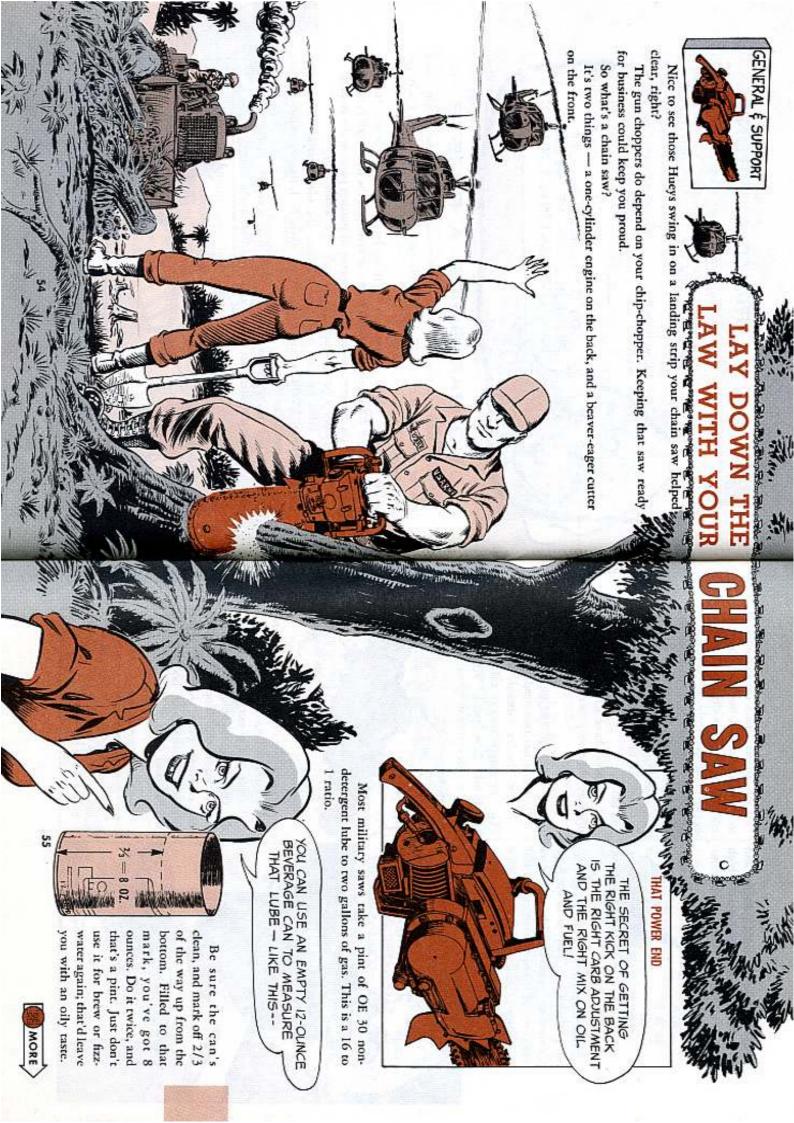
So, if you need a part, cannibalize or order the whole charger.

Your only other solution is to local purchase the adapter from Data Instruments Division, 3300 Crescent Blvd., Pennsauken, N. J. Be sure to include your charger's model number.

Bonus: Just in case the word didn't filter your way, TB 11-6665-215-12/1 (24 Dec 63) is the latest out on operation and PM on the charger.







And picking the right gasoline and the right oil is like pitchin' woo — both subjects are simple, but there's something in how you do it.



Make the mixture in the 2½-gal can you got with your saw, or in the 3-gal replacement — never in the saw's own tank. Use OE 30 non-detergent oil (OE 10 in winter), and unleaded gasoline if possible. Otherwise, use combat gasoline.

If you suspect there's water enough to mud up your fuel, but not enough to make drops, you can chuck in an ounce or two of methyl alcohol to every canful of gas-oil mixture. If that's unhandy, just don't use the bottom half inch of mix unless you have to; use it to wash out the can, or maybe clean both can and blade.

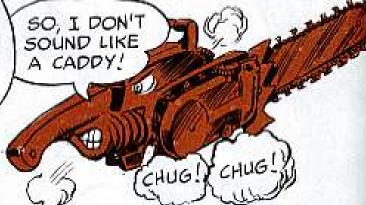
If you don't have a funnel, a rolledup piece of heavy paper works.

THAT CARBURETOR BIT

Your saw has two needles to set.

Maybe they're labeled "Hi" and "Lo," or maybe they're called "High Speed" and "Low Speed." What you're after is quick response when you need





power, and never mind whether there's a musical sound coming out.

That is, you're not worried whether the engine "runs smooth," like you used to want your jalopy to go. With this one-lung piece, idle can sound catch-catch bang-catch boopity-bang and be about right.

THE RECIPE'S SHORT:

Run a couple minutes to warm up, then kick the RPM up to 1000 or 1500 — throttle about a quarter way open.

Then set low speed to just under where the chain tries to inch forward.



To clear out gas fumes in the crankcase, speed up for about 10 seconds . . .

then set "High" with the throttle about half open until you get rid of the ka-whoof sound. That you may call "two-cycling." That's really a sign it's not hitting every time. Richen up the mixture by backing out the high-speed needle till that sound's gone.

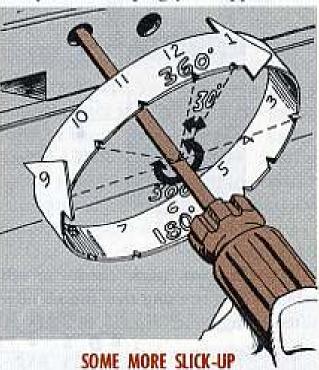


Now you're ready to make a check. Are both low-speed and high-speed needle settings close to a full turn open? If so, you've come close to a bull's eye the first shot. Open the throttle . . . do you get full power fast?



The trick on this speed-setting bit is, most people try to run too lean. Maybe they're trying to save gas. But if you save gas, you don't get enough oil. You want to run just below black smoke and backfires, and backing both screws out from the closed position by 300 degrees or so is a good start.

You know there're 360 degrees in a full turn, and 30 degrees in the angle an hour hand makes in each hour, so you can guess it pretty well. Just remember you're after good power and plenty of lubing, and let the POL people worry about keeping you supplied.



Besides the punch producer, another place that takes good oiling is the guide bar. On your particular rig, it may be called chain lubricator or cutter oiler or something else. Names could matter less — what happens is the chain gets hot and dry and has to have oil before it burns itself up or makes cinders out of the guide bar.







This has to be a mix, too — you can't just throw in any old oil, any old weight, and get by. You use 50 percent kerosene and 50 percent OE 30, or half diesel juice and half OE 30 — no diff . . . and in winter, natch, OE 10 instead of 30 weight.

THIS MIXTURE IS FOR LUBING THE CUTTER

KEROSENE

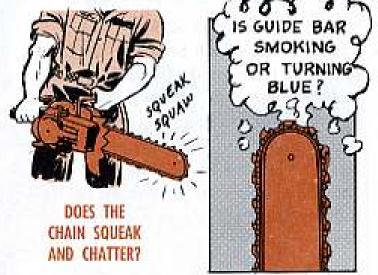
1/2

DIESEL

1/2

OE 30

There're two quick checks to tell whether you're using that thumb oiler often enough.



Then squirt oftener, it's far better to use that thumb oiler too much than too little. You don't have much time to waste on repairing busted chains.

Fact, you're about through worrying with lubes if you've got this all done OK.

All that's left is the gear case and a bucket.

Bucket? Nothing about a bucket in the LO, you say?

Wait a minute about that — in real hot climates, you can take a step up and put GO 90 in that gear case instead of GO 75. Check it every 4 working hours.

All right — now about that bucket. You'll want it to be 1½-gal to 3- or 4-gallon. In it you'll want 5 to 6 inches diesel juice — fuel oil.



That bucket is to clean the chain when you cut rubber trees or gummy wood. Gummy sap like latex comes out with a minute or so run, with the guide bar snout dunked in 3 or 4 inches.

Only thing is, cool it down with a short pause before dipping. Diesel juice was made to burn, and a pail full of fire you can't use. While you're at it, check that chain adjustment — ½-in to ¾-in slack is enough, but go by your TM. New chains are the worst problem; they stretch.

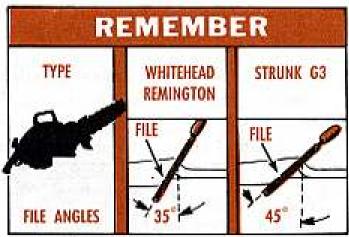


Maybe you already know that whole chains can usually be swapped between different makes of saws, provided pitch of sprocket drive and chain match up, so you take chains instead of repair kits when you go to the woods. OK, fine . . . got pliers . . . got screwdrivers . . . good.

It won't hurt any to also take a couple each of drive links, side links, and rightand left-hand cutters for each make of saw chain on the day's job.

What makes it rough is drawing a saw from a pool, and finding out it won't match any other make around. Then maybe you find nobody's checked it over in weeks . . . dull, chain loose, dirty air filter . . . mess.

You oughtn't to file teeth out on the job, but at times like this you have to. That makes a round file, ¼-in, a handy item. Try to match the angle for the brand of chain.



Another pain-saver is carrying complete carburetor spares to work instead of carburetor kits. Kits you can put on back at base.

Your BIIL should provide a spare spark plug or two, a couple popularsize sprockets, some magneto points and condensers, and a fuel filter or two.

One final check — got any spare chain rivets? Better have,

HERE'RE A FEW NECK-SAVERS!

Good maintenance includes keeping yourself in shape to go-go, too. So besides looking out for wind-swinging trees and trunk-length distance from other people's cuts, there're other good rules.

MOVING — This is always with saw shut off. You could stumble. That saw can cut a tree a yard thick and it could cut you in half.

CLOTHES - Sloppy duds



TOOLS — Out of the way except in use,

ROOM — If the wind changes, would you have a choice of ways to escape a fall? You wouldn't walk into an ambush; don't trap yourself.





dangling down could catch in the chain. Spare arms, ribs, legs and such there's no FSN for.

RESTARTING — Set saw on something solid first no in-the-hand stuff.





BACK IN CAMP

It takes work to put that saw back in shape when you come in. Tired you are: trouble you don't want.

But trouble you'll get double if you don't make a check-over.

Hard-to-find bits you'd best work on first.

FAN SHROUD AND Check caps SCREEN — Clear 'em of leaves and sticks. points, p gaps.

Check caps, switches, and controls as well as points, plugs, and



CLEAN
OFF
THE PIRT
THAT COLLECTS
AROUND THE
CHAIN-OIL
BAR AND CHAIN —
Clean before storing
— rust can ruin both.

S—Take off, and if they
out, change.

cooling FINS — Clean out mud and dirt, and wash out heavy oil. If these clog, your saw is on the edge of burning up.

AIR FILTERS—Take off, dust off, and if they won't wash out, change.

SOME FACTS TO KEEP HANDY!

PUB MANUFACTURER

TM 5-3695-200-15 (Aug 60) L-M Strunk Model G-3

TM 5-3695-204-25P (Jun 62) L-M Strunk Model G-4

TM 5-3695-207-15 (Apr 64) Whitehead Model 207M

TM 5-3695-213-15 (Jul 66) Remington Model 7546

EMC No. 7610-C1-3133 Remington Model 2MG

But if you should happen to have one of the older big boys, the 36-in Strunk G-1, you'll need TM 5-3695-201-12, and -12P, both dated May 59. The 36-in power-driven Little Giant Tree Feller takes TM 5-3695-205-25P (Aug 62) with

8

Change 1. And on the off-chance you're pneumatic equipped, the 24-in Mall takes TM 5-3695-203-15P (Jul 61).

Other brands you'll mostly need manufacturer's manuals for. Fill out a requisition just as if you were ordering a non-stocked part, and give make, date made, serial number, model, FSN and Contract Number. Your requisition will wind up at U.S. Army Mobility Equipment Command, ATTN: AMSME-STL-E, St. Louis, Mo. 63120. If there's a manual to be had, that'll cut it.

If you still have a longing for figures, try these. They cover most of the stuff you'll need.

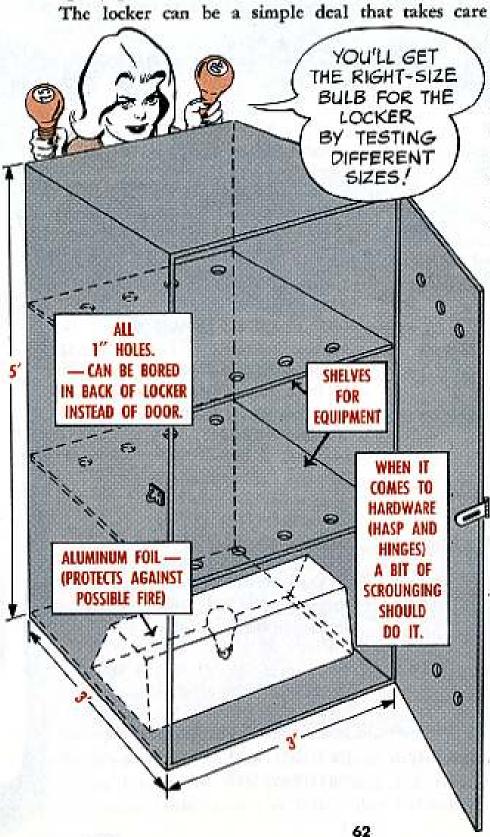
ITEM	KIND OR NUMBER
Gasoline	Unleaded, MIL-G-3056 or Spac Fed VV-G-76 W
	or Automotive Combat 91A
0E 30	-detergent
Gasoline Can	FSN 7240-248-9620 for a 3-gal safety can
Methyl Alcohol	
(Methanol, Technical)	FSN 6810-198-9385 — gallon can
Sprocket, 18-in saw	Remington, infr code 37923 Part No. A16-437
	Whitehead, FSN 3695-072-5166
Chain Assy, 18-in saw	Remington, mfr code 37923 Part No. 43FTSB-57
	Whitehead, FSN 3695-874-6635 L-M Strunk, mfr code 05665 Part No. G311001-19
Carburetor, 18-in saw	Whitehead FCN 2010-072-5164
	L-M Strunk, FSN 2910-779-0609
Spark Plug, 18-in saw	Remington, FSN 2920-248-1616
	Whitehend, FSN 2920-529-9183 L-M Strunk, FSN 2920-529-9183
Magneto Assy, 18-in saw	Remington, rnfr code 79575 Part No. FWS202 Whitehead, FSN 2920-930-0332
	L-M Strunk, mfr code 79575 Part No. FW2378
Condenser, 18-in saw	Remington, mfr code 79575 Part No. X11181 Whitehead, ESN 2920-859-4343
	L-M Strunk, mfr code 79575 Part No. X9100
Breaker Points, 18-in saw	Remington, mfr code 79575 Part No. X11247 Whitehead ESN 2920-859-4344
	L-M Strunk, mfr code 79575 Part No. X9556
	FSN 5110-064-6899 (For Whitehead only)
File, V ₂ -in dia	
File, 1/2-in dia File, 1/4-in round, 8" lg	FSN 5110-323-4732

SING ITS PRAISES

How about it . . . if your optical instruments, leather items, electronic gear and the like could sing, would they belt out the song, "How Dry I Am?"

If not, you can put 'em in tune with the times and drum away rust and fungi by putting together what's come to be known as a dry locker.

The locker can be a simple deal that takes care of a couple of pieces

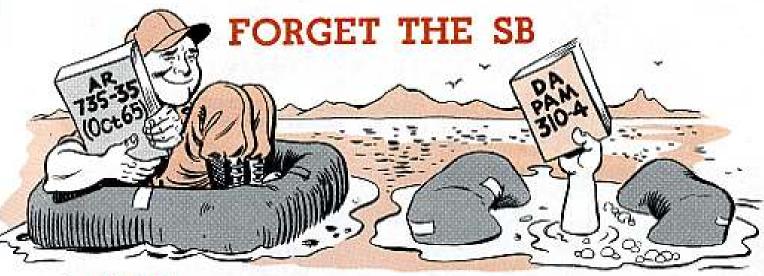


of equipment . . . or something that holds all sorts of gear. A foot locker that's seen better days works. And you can make it last by using steel plates, but then you need spare muscles at moving time.

Here's a locker that'll do a good job for you.

It works this way: Air comes through the holes at the bottom . . . gets warmed as it passes the bulb . . . and then moves the dampness through the holes in the shelves and out the ones in the top.

Watch the heat of the bulb. If the locker is on the small side, the temperature inside might shoot up enough to damage the gear. You may have to go to a 25-watt bulb. And if the locker is too big for a 40-watt bulb, switch to a 60watter or more.



Dear Half-Mast,

Has SB 55-30-1 (19 Sep 56), which covers property records for floating equipment, been reinstated? It's listed in the current DA Pam 310-4 (May 66).

WO2 P. A.

Dear Mr. P. A.,

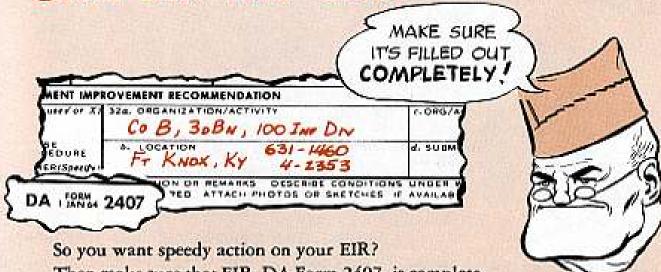
Nope. That's a goof in the index.

The SB was superseded by Ch 4 (27 Nov 63) to the old AR 735-35. Floating equipment is accounted for in the unit's property book along with all other equipment. See Sect III, AR 735-35 (Oct 65).

And, repair part SOP for floating equipment is covered by the AR's Sect VI.

Half-Wast

GIVE EIR THE GAS!



Then make sure that EIR, DA Form 2407, is complete.

Speed that action by saying what's wrong in full detail. And why—if you have any idea—like the block 35 rules say in paras 3-7.4d(12) and 3-7.4e(3)(b) of TM 38-750. Use DA 2407-1 if you need it.

It might help, too, to add your AUTOVON or other phone number plus extension under "Location" in block 32b — or in block 35 if more space is needed. Then the NMP can check back for more details — or later results.



Pll Flash

Keep an eye out for new PLL SOP in your command. New scoop on making changes and additions to the PLL, and on review periods is set up by DA TWX 822620 (ADCSLOG-MR), 7 Jul 67.

771 38-750

You may not have got enough copies of TM 38-750 (May 67) on initial distribution. If so, order more from St. Louis Publications Center by TWX or DA Form 17. Quote Baltimore AG Bulletin No. 28 (10 Jul 67) as your authority. But don't forget your St. Louis Account Number.

MISI Drain Tube

Now you can get Battery Tray Drain Tube, FSN 2540-832-5654, if your M151 or other G838-series ½-ton vehicle has lost its battery box drain hose. It's a new repair part for TM 9-2320-218-20P users.

71116

Rear View Mirror

If you need a rear view mirror for your M116 cargo carrier, order it as FSN 2540-840-0022. This is the number for the new mirror and not, like it says in PS 175, page 13, for the old mirror. Solly Cholly!

Jorch Pop Stopper

That "pop" you hear when somebody shuts his oxy-acetylene torch off wrong after a welding or cutting job isn't good. It blows carbon back into the pipes. But a cure is simple—just shut off torch oxygen first, then acetylene next, not t'other way around.

ETR Digest Drop-Out

Hold one, frantic mechanics! EIR Digest, TB 750-992-2 (24 Apr 67) says it's OK to use a torque wrench to back off a nut. Not so. The last sentence under the paragraph headed, Check Pre-torqued Nuts (page 3) should read: A torque wrench should **not** be used for the back-off operation.

G300A777

You're probably scratching your head over the meaning of that G300A business in the Armament Material section of TM 9-2300-223-20P (Jul 65) Consolidated A&horized Organizational Stockage List of Repair Parts for Tank-Automotive Materiel. Well, all it means is G300 = M114... and G300A = M114A1. This "A" will probably disappear in the next revision to the TM—and G300 will then stand for all the M114 models, unless separate model numbers are shown below the G300 SNL number.

Shine Ou!

100

MAINTENANCE PROBLEM IS-

WHAT YOUR

I DON'T

If you Huey Delta (UH-1D) and Chinook (CH-47) mechs are having trouble keeping those seeing eye retractable landing lights aglow, don't blindly order the entire light. Maybe all you need is a bulb. FSN 6240-557-3065 will get you one.

One Yellow Band

WP and PWP smoke cartridges are color coded like this:

Light green body with light red markings, and **1 yellow band**, which clues you to a high explosive burster.

M79 Grenadiers

Having trouble getting repair parts for your M79? Maybe you missed the news that the -20P TM was rescinded and the parts you're looking for are in Ch 1 (30 Apr 65) to TM 9-1010-205-12. Ch 2 (5 Jan 67) to the -12 TM has special scoop on handling misfires, hangires and stuck projectiles.

New DD Form 6

Keep an eye out for new local SOP on use of AR 700-58 (Jan 67), Report of Packaging and Handling Deficiencies. The revised AR covers a new DD Form 6 (Dec 66). Info on the back of the form lists typical deficiencies the form can handle, and spells out defects it can't report.

Huey Bearing Stack-Up

Face to face, back to back, or seal inboard—this is how your Huey (UH-1) tail-rotor pitch-change rod-bearing sets stack up. One manufacturer's installation poop is not clear . . . can lead to T/R failure (ugh!). Depending on the part numbers you have, follow the arrangement shown in the organizational maintenance pub.

Automotive Mechanics

Hold on to that Universal Joint, sacket wrench, FSN 5120-269-7971. It's supposed to be in the sacket wrench set FSN 5120-081-2307, which is in your Automotive Mechanic's Tool Kit, FSN 5180-754-0641.

Get Your Decals

Any of the decals in your equipment missing or painted over? Never fear. SC 7660/90-ML (Mar 67) is here. It gives you the FSN's for a lot of those hard-to-find decals for track and wheeled vehicles, weapons, and commo equipment. It even has FSN's for individual letters in 4 different sizes so you can custom-make your own decals. It also lists packing labels, strapping diagrams and white stars in 8 different sizes. Order it with Change 1, which has the latest deletions and additions.

Would You Stake Your Life wold on

the Condition of Your Equipment?

