

Issue 170

PS

1967 Series

THE PREVENTIVE MAINTENANCE MONTHLY



CONNIE'S COURSE
ON ICY DRIVING

WE MADE
IT DOWN
HILL OK...
BUT, HOW
ABOUT GETTIN'
UP HILL?!

DON'T LOSE
YOUR
TRACTION

WATCH
FOR SLICK
SPOTS

AVOID
JERKY
MOVEMENTS

USE PUMPING
ACTION ON
BRAKES

Will Eisner

THE COLD FACTS ABOUT ICY DRIVING

ADJUST YOUR DRIVING TO THE ROAD

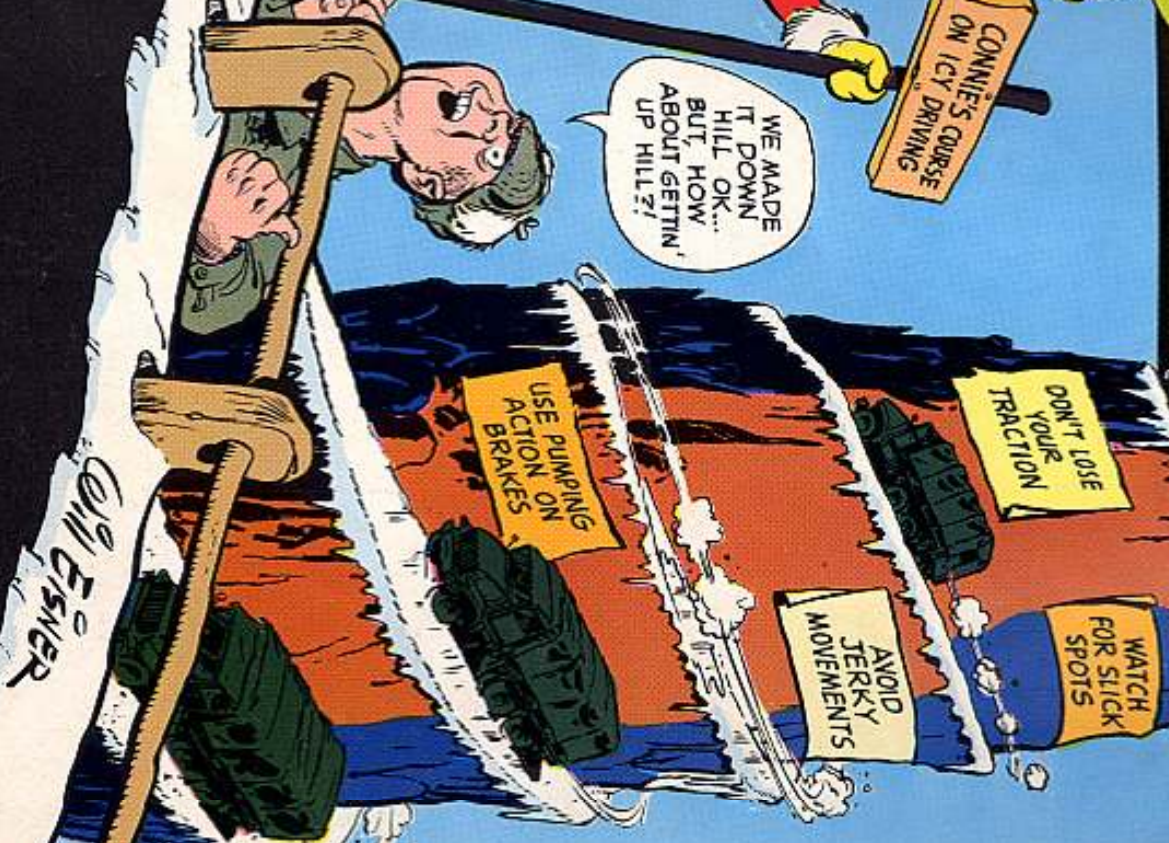
TIRE PRESSURE RIGHT??
KNOW YOUR ROUTE BEFORE YOU START!
LIGHTS - MIRRORS - WINDSHIELD CLEAN?
WIPERS WORK OK?
CHAINS OF PROPER TYPE?

Issue 170
PS
1967 Series

THE
PREVENTIVE
MAINTENANCE
MONTHLY



WE MADE IT DOWN THE HILL OK... BUT, HOW ABOUT GETTIN' UP HILL?!



Call Eisner



YOU'VE GOTTA KNOW, SO —

GET

AND

USE

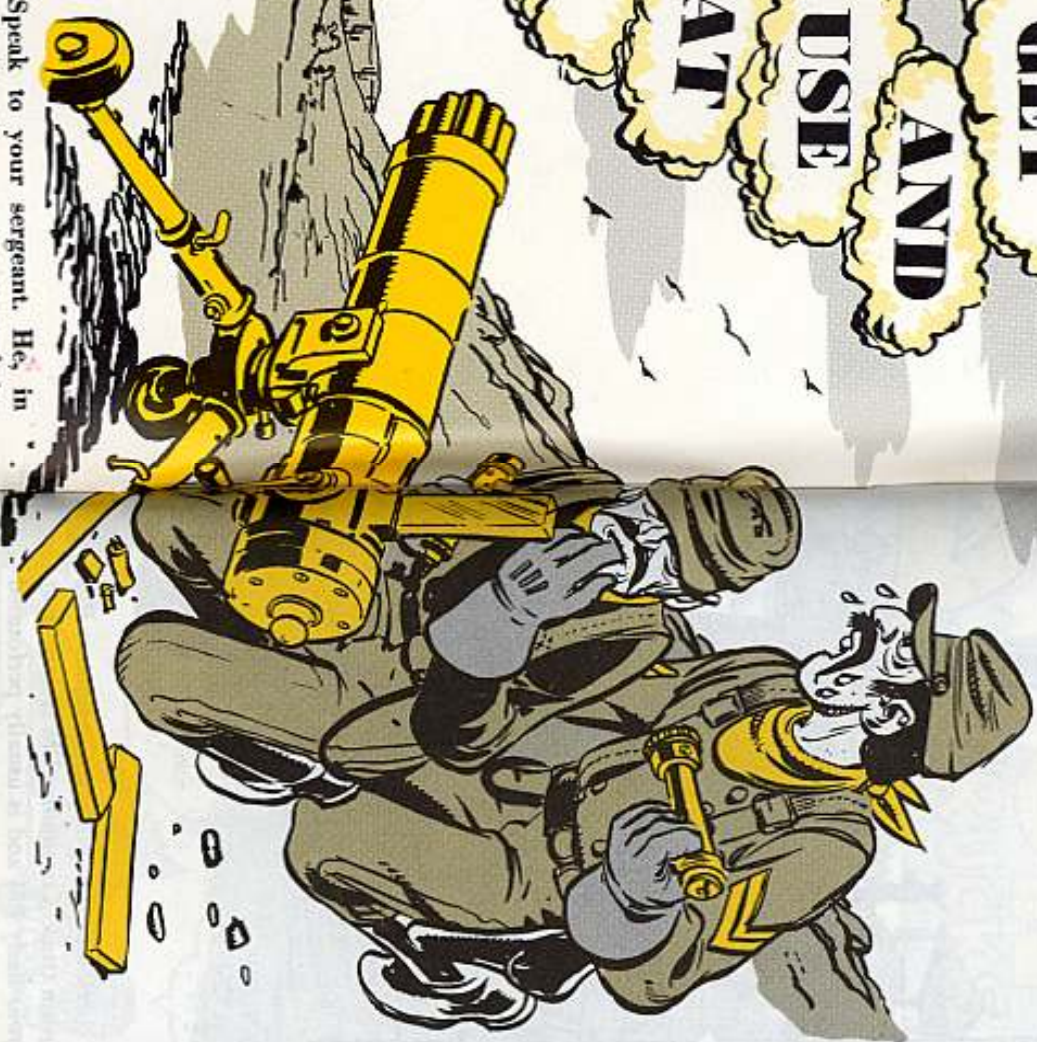
THAT

MANUAL

It happens . . . 9 times out of 10:
The man who tries to do a job before he knows how will botch it up.
So, to stop that, try this: As you use and operate your Army equipment and do your maintenance, get that know-how.

One sure way of getting know-how is to pick up and read (real carefully) the -10 Operator's Technical Manual if you use or operate the equipment or the -20 Maintenance Manual if you are a maintenance man.

Don't have one?



Speak to your sergeant. He, in turn, will get the company clerk (who usually handles the paperwork on ordering pubs) shook up to the point that he will order enough technical manuals for you and others in your unit who need them. Not only that, but your CO will see to it that the Pin-Point order forms (DA 12-series)

get filled out right so you'll get enough of all new manuals as they come off the press. If you need one that's already out, he'll order it on DA Form 17.

So, to get that know-how, get that TM.

Know-how can be a lifesaver.

PS

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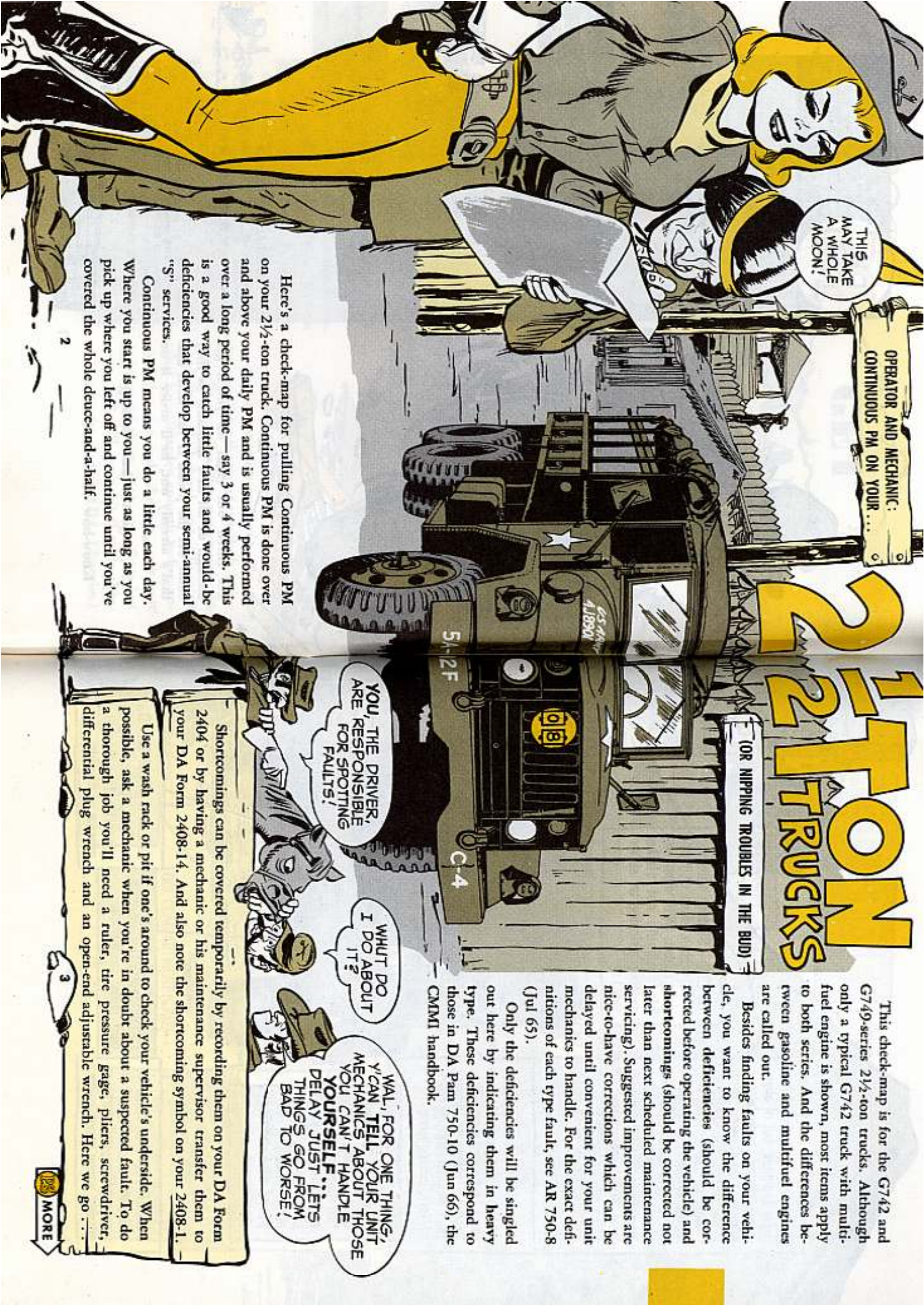
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PS wants your ideas and contributions and is glad to answer your questions. Write and editors are kept in close contact. Visit with us!

Sgt. Holly Maki,
PS Magazine,
Fort Knox, Ky.
40121





THIS
MAY TAKE
A WHOLE
MOON!

OPERATOR AND MECHANIC:
CONTINUOUS PM ON YOUR...

2 1/2 TON TRUCKS

(OR NIPPING TROUBLES IN THE BUD)

This check-map is for the G742 and G749-series 2½-ton trucks. Although only a typical G742 truck with multi-fuel engine is shown, most items apply to both series. And the differences between gasoline and multifuel engines are called out.

Besides finding faults on your vehicle, you want to know the difference between deficiencies (should be corrected before operating the vehicle) and shortcomings (should be corrected not later than next scheduled maintenance servicing). Suggested improvements are nice-to-have corrections which can be delayed until convenient for your unit mechanics to handle. For the exact definitions of each type fault, see AR 750-8 (Jul 65).

Only the deficiencies will be singled out here by indicating them in heavy type. These deficiencies correspond to those in DA Pam 750-10 (Jun 66), the CMMI handbook.

YOU, THE DRIVER,
ARE RESPONSIBLE
FOR SPOTTING
FAULTS!

WHAT DO
I DO ABOUT
IT?

WAL, FOR ONE THING,
Y'CAN TELL YOUR UNIT
MECHANICS ABOUT THOSE
YOU CAN'T HANDLE
YOURSELF... LETS
DELAY JUST LETS
THINGS GO FROM
BAD TO WORSE!

Here's a check-map for pulling Continuous PM on your 2½-ton truck. Continuous PM is done over and above your daily PM and is usually performed over a long period of time—say 3 or 4 weeks. This is a good way to catch little faults and would-be deficiencies that develop between your semi-annual "S" services.

Continuous PM means you do a little each day. Where you start is up to you—just as long as you pick up where you left off and continue until you've covered the whole deuce-and-a-half.

Shortcomings can be covered temporarily by recording them on your DA Form 2404 or by having a mechanic or his maintenance supervisor transfer them to your DA Form 2408-14. And also note the shortcoming symbol on your 2408-1-

Use a wash rack or pit if one's around to check your vehicle's underside. When possible, ask a mechanic when you're in doubt about a suspected fault. To do a thorough job you'll need a ruler, tire pressure gage, pliers, screwdriver, differential plug wrench and an open-end adjustable wrench. Here we go...

HOOD—Loose, squeaks when opened, dented, out of alignment. Hinges and latches missing, broken, worn, bent, loose, rusted, not lubricated (should be thin coat of oil). Safety fastener catch won't work, missing, broken. National markings missing or illegible (in accordance with local SOP), wrong (see AR 746-5, and TB 746-93-1 "Color and Marking of Army Materiel").

WIPERS—Blades missing, arms broken, dead or hardened rubber. (With wiper on, blade should not strike weather stripping on either side.)

WINDSHIELD—Cracked, crazed, clouded enough to block vision (deficiency if more than 2 square inches on driver's side). Weather stripping cracked, torn, coming loose.

LIGHTS—Inoperable, lenses dirty, cracked, crazed, clouded, contain water, obstructed with paint, blackout shield missing, not in place, broken or exposed wire causing short circuit.

BUMPER—Loose, cracked, rusty, missing bolts, not in good condition; unit markings missing, wrong or not legible.

LIFTING SHACKLES—Missing, bent, cotter pin missing.

GRILLE & BRUSHGUARD—Bent, loose; weight classification marker missing or illegible.

FRONT

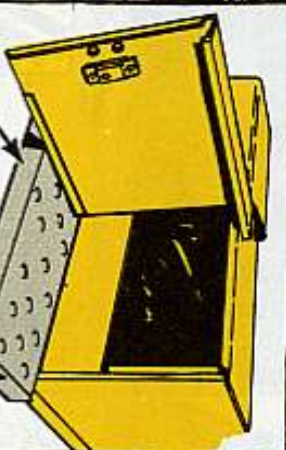
LEFT SIDE

CAB & BODY BOLTS & MOUNTINGS—Missing, loose, broken, cracked. Compression springs not bottomed or broken, pads and cushions missing.

GENERAL APPEARANCE—Dirty, rusty spots, body dents, split seams (welds must be intact).

RUNNING BOARDS—Bent, mounting bolts loose.

TOOL COMPARTMENT (G742)—Rusted, trashy, excess items, weather stripping torn, missing, tools missing (see TM 9-2320-209-10 (Feb 65)).



FRAME—Bent, cracked. Side rails and cross members loose, broken. Welds broken, rivets loose.

PIONEER TOOLS—Rusted, handles cracked or unpainted, missing (see page 11, TM 9-8024, C7 or page 256, TM 9-2320-209-10).



LEFT SIDE



MIRRORS—Missing, broken, dirty, obstructed, clouded enough to block vision, can't be adjusted for movement in every direction.

WINDOWS—Broken, loose, dirty, clouded enough to block vision, (driver), cracks, stuck (won't move up or down), Rear window ripped, torn, fogged enough to hamper vision.

FUEL CANS, BRACKET & NOZZLE (Only bracket present normally)—Mounting bolts loose, missing, Strap worn, frayed, mildewed, missing, torn. Bracket bent, dirty. Fuel can (if present) rusty inside.

SPRING SEATS—Cap screws loose, missing, leaking.

SLAVE RECEPTACLE (installed for cold climates) — Contacts buried beyond use, dirty. Cap sprung or missing, cracked, broken, cross threaded.

DOORS—Hinges loose, broken, missing, squeak when opened, latch won't open and close properly. Door stops missing, broken, won't stop door in 2 positions. Weather stripping loose, worn, cracked, missing, shredded.

PAINT
DOESN'T FIX EVERYTHING!



VALVES—Caps missing, valves bent, cores leak (remove cap and wet core-hubbles indicate leak). Wrong tire pressure (see table 9, page 37, TM 9-2320-209-10). Not properly positioned (should point away from vehicle; on duals; outside points in, inside points away... 180° opposite).

TIRES—Tread smooth, and worn, cut to fabric, uneven wear (front), blistered: unmatched in size, tread design or wear (see TM 9-1870-1); need rotation.

AIR RESERVOIR—Water in tanks (drain daily). Petcock clogged, stuck, broken.

SPARE TIRE CARRIER—Loose, bent, rusted, dented, broken spot welds, tire valve blocked, spare missing, wrong tire pressure, tread worn, brackets missing, not secured.



WHEELS—Lube or brake fluid leaking. Lug nuts missing, loose. Rim and axle flange nuts missing, loose. Rims bent. Two axle puller screws missing, broken, bent. Dowels rusted. Studs bent or broken.

TIE DOWN (TARP) HOOKS—Bent or broken, missing, rusty.

REAR

AIR COUPLINGS—Cap or chain missing, broken, leaking, bent.

REFLECTORS—Missing, cracked, broken, dirty, discolored. Red backing peeled beyond 1/2 inch.

BUMPERETTES—Bent, loose, broken, unit markings missing or not legible.

PINTE—Missing, loose, not lubed, can't be opened, lock pin (cotter pin) not attached with chain, spring broken.

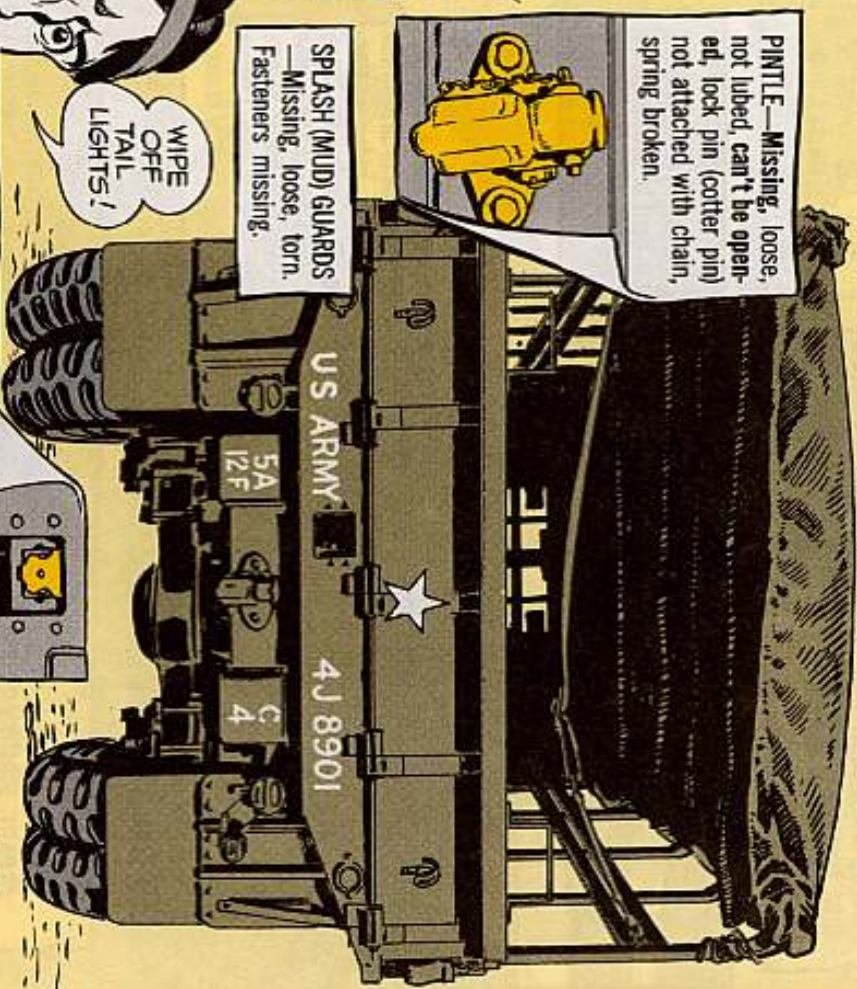
SPLASH (MUD) GUARDS—Missing, loose, torn. Fasteners missing.

WIPE OFF TAIL LIGHTS!

TAIL GATE—Bent, broken, loose; fasteners and chains missing or rusted, broken. Chain guard missing, retaining hook bent so won't open, either step unusable.

TRAILER COUPLING RECEIVER—Dirty, lugs broken, cap missing or sprung, bent, corroded, outer ring damaged.

REAR LIGHTS—Not working. Lenses dirty, cracked, broken, clouded, discolored, covered with paint, wire short circuited.



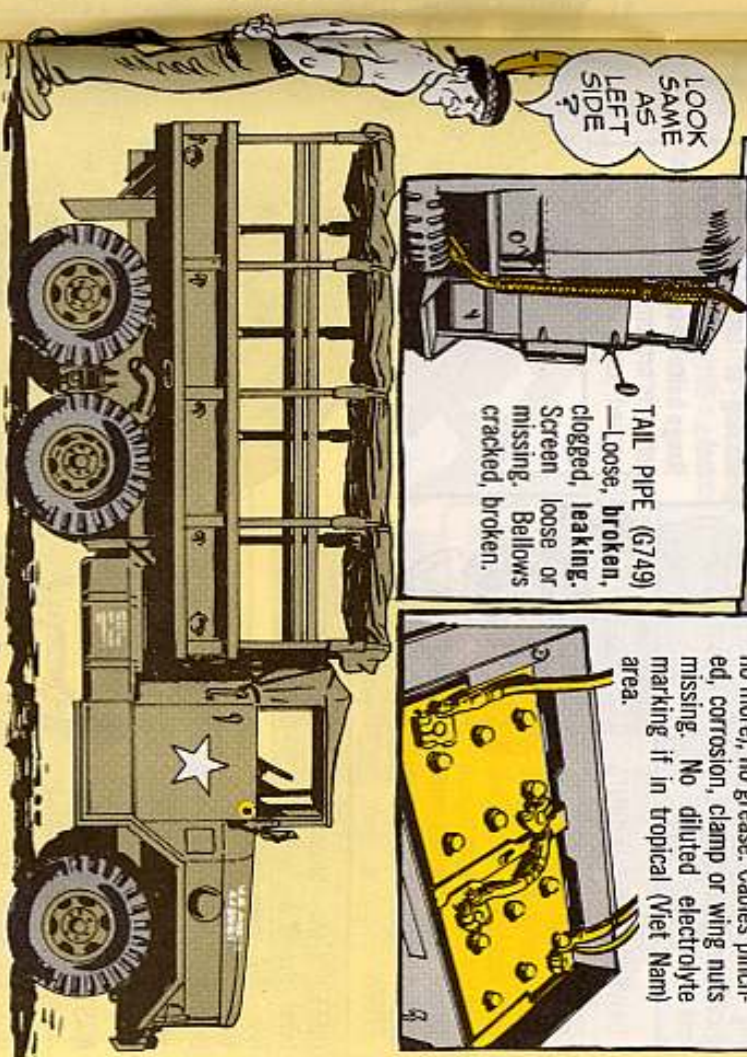
RIGHT SIDE

TAIL PIPE (G742)—Loose, worn, cracked, dented, clogged with mud, busted, collapsed. Clamps missing, loose, worn.

TAIL PIPE (G749)—Loose, broken, clogged, leaking. Screen loose or missing. Bellows cracked, broken.

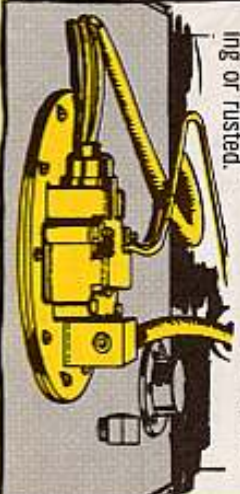
BATTERIES (G742)—Cracked, leaking, caps missing, vent clogged, tight. Electrolyte not at required level (full mark). Terminals loose (use three fingers for pull test—no more), no grease. Cables pinched, corrosion, clamp or wiring nuts missing. No diluted electrolyte marking if in tropical (Viet Nam) area.

LOOK SAME AS LEFT SIDE?



FUEL TANK—Leaking, loose, bent. Shut-off valve bent or broken. Gas level too high (must be at least 2 inches below tank top). Tank top dirty, rusted, needs paint. Support straps rusted thru, loose. Fuel strainer missing, rusted, holey; chain missing, loose, broken. Fuel filter gasket missing, damaged. Cap not seated properly. Stencil missing (20-gal per minute). Decal missing (pressurized, open slowly).

FUEL LEVEL SENDING UNIT—Gas line crushed, unit connector crushed, wire broken, screws holding unit and filter assembly missing or rusted.



UNDERNEATH

TRANSMISSION—Oil leak (5 or more drops per minute). Linkage bent or broken. **Wrong lube level** (stick clean finger in up to first joint; fingertip should just touch when cold; lube at plug level when hot). Mounting bolts missing, loose. Flywheel housing drain plug missing from storage boss or not in glove compartment. Vent not clean and open.



FRONT AXLE HOUSING (CV JOINTS)—G749: rusty, scratched, badly scored; G742: boots missing or torn. Not lubed, leaks, dirty breather vents, flange bolts loose, turning stop bolt weld broken; seal missing, cracked, loose.

SPRINGS, U-BOLTS, CLIPS—Should not be lubed. Bolts loose or missing. Rubber bump plates missing. Shackles mounting bracket rivets broken (tell-tale cracked paint). U-bolts missing or broken. Rebound clips, leaves loose, missing or broken.

STEERING GEAR FILL & LEVEL—Leaks, improper level (should be 1 inch below filler plug).



STEERING GEAR ARMS & LINKAGE—Not lubed, loose, bent.



SHOCK ABSORBERS—Linkage broken. Loose. Bushings worn, cut, damaged. Housing bent. Bracket loose.



ENGINE OIL PAN—Loose plug or bolts, leaking gasket (5 or more drops per minute), pan dented.

DIFFERENTIAL—Wrong lube level (should be 1/2 inch below plug level when cold, finger check), bolts loose, breather vent clogged, plug loose (leaks), gasket leaks.



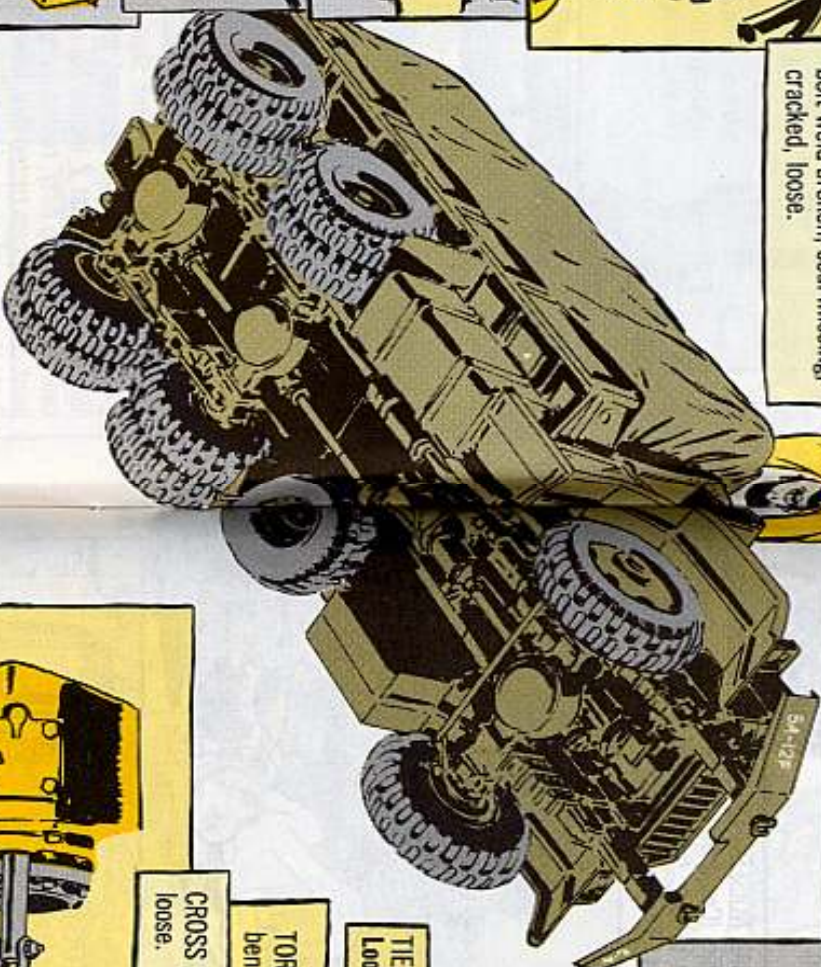
MASTER BRAKE CYLINDER—Leaking, boot missing, torn, not tight at both ends, leaks into boot.



EMERGENCY BRAKE—Loose, worn, linkage loose.



BRAKE LINES & HOSE CONNECTIONS—Loose, kinked, frayed, leaking, twisted.



GEAR CASE AIR VENTS—Stuck, clogged, loose.



TIE ROD ENDS—Loose, bent, worn.

TORQUE RODS—Loose, bent.

CROSS BRACES—Bent, loose.

MUFFLER—Loose, worn, cracked, holes, burned out. Clamps missing, loose, worn.



TRANSFER CASE—Linkage or mounting brackets loose, leaks (5 or more drops per minute), wrong oil level (plug level at operating temperature).



DRAIN PLUGS—Loose, leaking.



ENGINE UNDER THE HOOD

RADIATOR COOLANT—Dirty, rusty, not up to level cock, below core, cap gasket missing. Anti-freeze protection not adequate (in season).

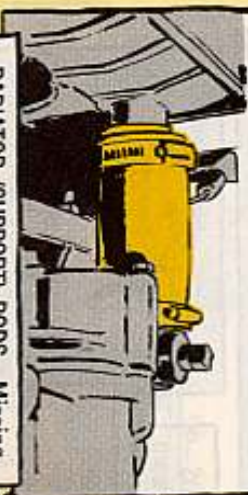


RADIATOR FILLER NECK ADAPTER—Use coolant level cock. (*Gas engine only*)

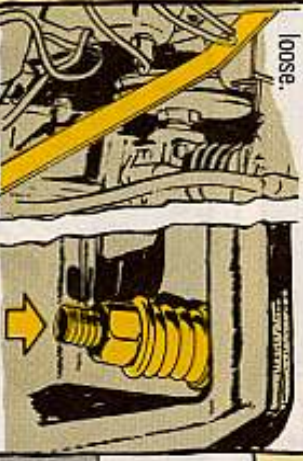
WATER TEMP SENDING UNIT—Loose, rusty, mounting brackets missing, cracked, loose electrical connection.



RADIATOR, HOSES & CLAMPS—Clogged, collapsed, worn, torn, leaking, missing, broken, bent, loose. Shrouding loose, brackets loose, fins badly bent; core clogged by bugs, leaves, etc.



RADIATOR (SUPPORT) RODS—Missing, loose.



RADIATOR MOUNTING BOLTS (STUDS)—Loose, missing.

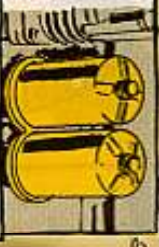
FAN BELT—Cracked, worn, frayed, shredded, oily, greasy, wrong adjustment (G742) — 1/2-in deflection; (G749) — 1/2 to 3/4-in deflection.



UNUSUAL NOISES—Tell your mechanic. (Could be carburetor for idle setting, timing, valve tap, etc.) Engine misfires.



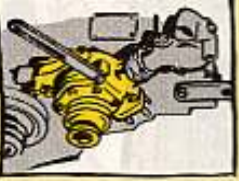
OIL FILTERS & BRACKETS—Loose, leaking.



STARTER MOTOR—Not working, loose, dirty or loose cable connections and linkage.



WATER PUMP—Leaks, loose on engine block, pulley bent, loose on pump, not working.



IF YOUR ENGINE MAKES ANY STRANGE NOISES, TELL YOUR MECHANIC!

CRANKCASE OIL—Level too low or high (should be between "L" & "F" on gas engine, and between "ADD" and "F" on multigrade — wait at least one minute after stopping before check. It's a deficiency when oil is below "ADD" or "L" (or above "F"). Cap missing, cap gasket damaged or missing. Check with gage unscrewed.



OIL PRESSURE SENDING UNIT—Loose, rusted, mounting cracked, loose electrical connection.



CRANKCASE VENT LINE—Loose, broken, pinched.



AIR CLEANER & BREATHER—Loose, clogged, leaking, oil not at level mark, dirt more than 3/4-in deep. Breather loose, bent. Bonnet or clamp broken, dirty element.



CARBURETOR & LINKAGE—Loose, bent, linkage sticking, parts missing, gasket missing, idle too fast or slow. Vent lines and hoses cracked, leaking, bent, loose, holes, clogged, not clamped right. (*Gas engine only*)



CRANKCASE BREATHER—Dirty, clogged, cap missing, oil not at level mark, shutoff valve not operating.



ENGINE

FUEL INJECTOR PUMP (multifuel only) — Mounting loose, lines leaking or loose.



FUEL FILTERS (multifuel only) — Missing, drain valves (petcocks) don't work. Primary not drained daily.



CHOKE — Won't work, wire broken, bracket broken, screw missing. (Gas engine only)



CYLINDER HEAD — Cracked, compression or water leaks (hissing sound).



POWER TRAIN MOUNTINGS (engine, transmission, transfer) — Bolts missing, loose, bent.



FUEL PUMP PRIMING LEVER — Missing, broken, inoperative. (Gas engine only)



FUEL LINE SHUTOFF VALVE — Inoperative, handle broken or missing. (Gas engine only)

IGNITION WIRING — Cracked, worn, frayed, shield broken open. (Gas engine only)



DISTRIBUTOR — Cap cracked or broken, dirty, loose mounting, loose electrical connections. (Gas engine only)



WIRES & CONNECTIONS — Loose, frayed, worn.



AIR COMPRESSOR — Belt adjustment (1/2 to 3/4-in deflection), belt worn, cracked; air breather dirty or clogged.



AIR COMPRESSOR STRAINER (multifuel only) — Mounting loose.



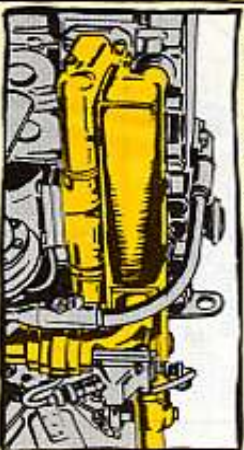
OIL PUMP ASSEMBLY BRACKET — Broken, loose.



CONNECTIONS — Loose, corroded, insulation broken or frayed, ground cable hits battery cover.



MANIFOLDS & HEATER CONTROL — Broken, cracked, loose, frozen, incorrect control setting (G742); down or off except for extreme cold. (G749): 60° and above temp, OFF position; 30° and lower temp, ON position; between 30° and 60° temp, INTERMEDIATE position. Heater control valve stuck, leaking gaskets, studs broken or missing, nuts missing or loose.



BATTERIES (G749) — Level below vent well slots, vent caps missing or clogged, terminals and posts corroded. Case cracked, dirty, corroded, loose in carrier, acid salts. Hold down bolts and nuts missing, rusted, corroded. No grease or excess (more than thin coat) on posts. No marking for diluted electrolyte if in tropical (Viet Nam) area.



REGULATOR — Loose electrical connections, loose mounting, seals broken.



GENERATOR — Loose mounting, dirty or loose electrical connections, bracket broken.



CAB

DOORS — Gaskets and seats frayed, cracked, missing. Plates missing, loose.

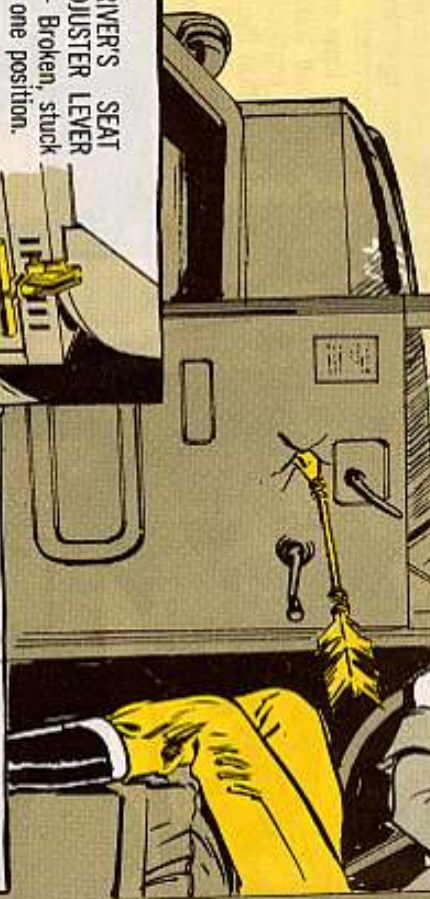
DOOR HANDLES — Missing, loose, inoperative, broken.



SEATS — Cushions torn, worn, frayed, missing, holes. Regulator knob bent, broken. Springs missing, channels loose, hinge plates loose.



FIRE EXTINGUISHER (as required by AR 385-55, para 19h) — Not present, discharged.

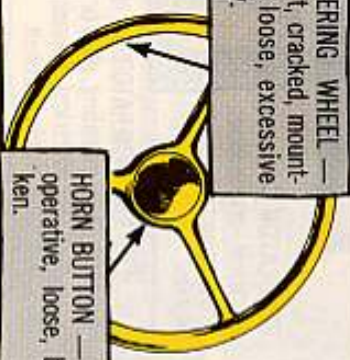


HEY!!

DRIVER'S SEAT ADJUSTER LEVER — Broken, stuck in one position.



STEERING WHEEL — Bent, cracked, mounting loose, excessive play.



HORN BUTTON — Inoperative, loose, broken.

HYDRA-MATIC FLUID LEVEL (G749 only) — Leaking, wrong level: COLD mark on gage or HOT FULL if previously operated (check w/ handbrake set tight, transfer engaged, transmission gear selector in "N" range, engine running at idle 3-5 minutes).

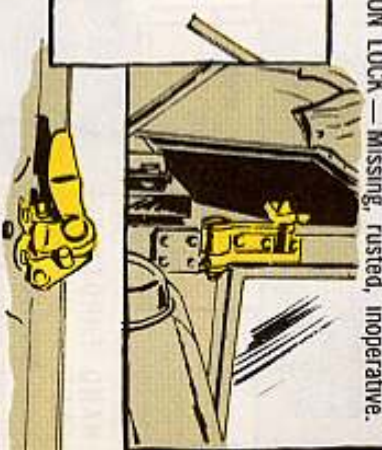


WINDSHIELD VERTICAL POSITION LOCK — Missing, rusted, inoperative.

WINDSHIELD TILT ADJUSTER (ADJUSTING ARM) — Missing, rusted, inoperative, broken, bent.



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



DIMMER SWITCH — Broken, won't work, loose, delay between hi and low beam.

CLUTCH (G742) — Grabs, chatters, slips. Draft pad missing, loose. Wrong free travel (must be 1 1/2 - 2-in.).

FLOORBOARDS — Missing screws or bolts, loose, rusted, bent.

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

HANDBRAKE — Won't hold, cable busted, loose, broken, not adjusted (over 3/4 travel on full application).



PTO SHIFT LEVER — Stuck, loose, bent (check w/ engine off).



AIR SUPPLY VALVE — Not working, cap and chain missing.



COWL VENT CONTROL HANDLE — Broken, loose, stuck.

STARTER PEDAL (BUTTON) — Not working.



AIR INTAKE — Caps missing or loose. (G749 only).



ENGINE STOP KNOB (multifuel only) — Won't pull out.

HAND THROTTLE KNOB — Missing, loose, inoperative.

CHOKE CONTROL KNOB — Inoperative, missing, loose. (Gas engine only)

MANIFOLD HEATER SWITCH (multifuel only) — Won't work.

WINDSHIELD WIPER VALVE KNOB — Missing, inoperative, broken.

LIGHT SWITCH — Broken, cracked, inoperative. Main switch can be moved beyond "80" when locked.

AIR FILTER INDICATOR (multifuel only) — Red showing.

TRANSMISSION GEAR-SHIFT LEVER — Stuck, loose, bent, knob missing, boot torn.

ACCESSORY SWITCH (multifuel only) — Won't work, broken, loose.

IGNITION SWITCH — Loose, inoperative, broken. (Gas engine only)



CAB

HEADLIGHT HI BEAM INDICATOR LIGHT — Missing, won't work, painted over.

TACHOMETER — Not working, RPM limit arrow missing, overspeeds red line RPM.

INSTRUMENT PANEL LIGHTS — Burned out, missing, not working.

WINDSHIELD CHANNELS — Rusted, loose, welds cracked, broken. Retaining fasteners missing, loose, broken, bent.

WATER TEMP GAGE — Not working... should read 160°-180° (G-742); 160°-220° (G-749) after engine's warmed up.

OIL PRESSURE GAGE — Won't register w/ engine running at fast idle (approx 15 PSI for G742).

AIR PRESSURE GAGE — Not working (won't rise after starting). Buzzer keeps sounding, should go off at 60 PSI (G749) or 65 PSI (G742), not working.

OTHER INSTRUMENTS — Not working, lenses broken, cracked, clouded, dirty.

BAT-GEN INDICATOR — Won't work right (should not go deep into yellow or red w/ engine running at operating temp). Lens cracked, dirty, clouded.

WIPER MOTOR — Lever missing, won't work. Hold-down fasteners bent, broken, bolts loose, seals cracked, hose cracked. Regulating valve not operating, leaks.



PRIMER PUMP CONTROL KNOB — Binds in one position, missing, loose, inoperative. (Gas engine only)



CRANKCASE VENTILATION SHUTOFF VALVE CONTROL — Inoperative, loose, missing. (Gas engine only)



NAME, DATA & CAUTION INSTRUCTION PLATES — Not readable, missing, painted over.

HOW ABOUT THOSE ROLL-DOWN WINDOWS?



TRANSMISSION GEAR SELECTOR — Loose, not lubed, slips out of gear. (G749 only).



MAP COMPARTMENT — Loose, dirty, falls open, leaks water, latch broken. FORMS and PUBS (LO, TM, DD Form 518, SF 91) — Missing, unreadable, outdated, DD 518 not filled out. Flywheel housing drain plug missing (for fording).



CARGO

SAFETY STRAP—Missing, snap hook broken, not in good condition.

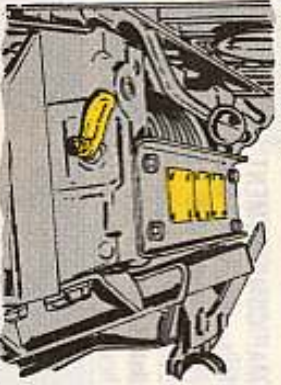
AND NOT FRAYED.

CANVAS, BOWS & STRAPS—Canvas missing, torn, dirty. Top bows broken. Ropes frayed. Buckles busted, missing.

CABLE—Dirty, rusted, worn, shredding, not lubed, loose on drum, kinked, breaks, frayed, improperly wound, improperly installed on drum (should be layed either right or left—see fig 15, TM 5-725, "Rigging").

CHAIN—Rusted, dirty, damaged links or hook, hook not anchored.

DATA PLATES—Dirty, unreadable, covered with paint.



DRUM LOCK POPPET KNOB—Unlocked, inoperative, not lubed, won't operate freely.

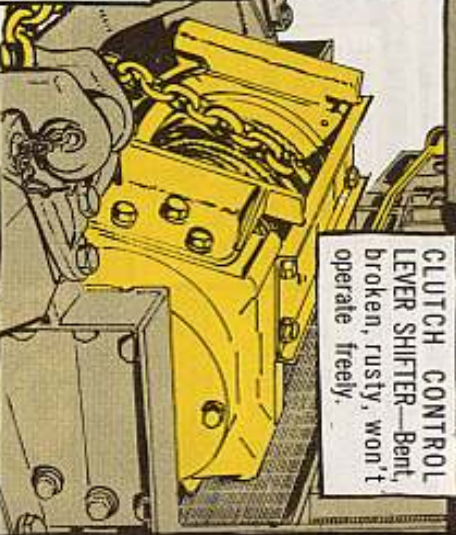
SIDE RACKS—Missing, loose, broken, bent, wood rotted, unpainted, tiedown hooks and cargo bolts broken, missing, bent, loose.

SEATS—Broken, rotted, unpainted, brackets missing or bent, cotter pins missing, bracket retaining pins missing. Handhold not facing rear.

FLOOR PLATES—Bent, damaged, drain hole clogged.

WINCH

CLUTCH CONTROL LEVER SHIFTER—Bent, broken, rusty, won't operate freely.



WINCH DRIVESHAFT—Not lubed, dirty, does not have aluminum shear pin (test with magnet.)

LEVEL WIND LOCK KNOB—Unlocked, inoperative, won't operate freely, not lubed.

WINCH PROP SHAFT SHEAR PIN—Broken, rusty, missing, not lubed.

LOG BOOK

TM 38-750 is your guide on the forms you use and keep in your vehicle's log book binder. To make your inspection, you'll need a DA Form 2404 worksheet and the vehicle TM. (A complete log book missing is a deficiency).

Your log book binder should contain these forms:

- DA Form 2408 — Equipment Log Assembly
- DA Form 2408-1 — Equipment Daily/Monthly Log
- DA Form 2408-2 — Equipment Lubrication Record
- DA Form 2408-3 — Equipment Maintenance Record (Organizational)
- DA Form 2408-5 — Equipment Modification Record
- DA Form 2408-6 — Equipment Maintenance Record (Support Echelons)
- DA Form 2408-7 — Equipment Transfer Report
- DA Form 2408-8 — Equipment Acceptance & Registration Record
- DA Form 2408-10 — Equipment Component Register
- DA Form 2408-14 — Uncorrected Fault Record

LOG BOOK IMPORTANT!



DRAG BRAKE—NOT WORKING RIGHT. TEST IT LIKE THIS:



1 **CLUTCH CONTROL LEVER TO DISENGAGED**



2 **DRUM LOCK 1/4 TURN TO DISENGAGED**



3 **PTO LEVER IN CENTRAL NEUTRAL**



4 **PULL CABLE FROM DRUM**



5 **DRUM SHOULD STOP REVOLVING WHEN CABLE PULL IS STOPPED**



6 **IF DRUM OVERRUNS CABLE—ADJUST BRAKE**



THIMBLE & CLAMPS—Worn, damaged, improperly assembled (see TM 5-725).

WINCH BUMPER BRACKET BOLTS—Loose.

WINCH FRAME BRACKET BOLTS—Loose.

WINCH WORM CASE (HOUSING)—Lube below level plug.

WINCH END BEARING FRAME HOUSING—Lube level (must be 6 7/8-in from top).

FOR THE MECHANIC

You'll have to call on one of your unit mechanics to help you finish this inspection. He'll know how to check out the following items for you:

WHEEL BEARINGS — Loose, defective, not lubed right.

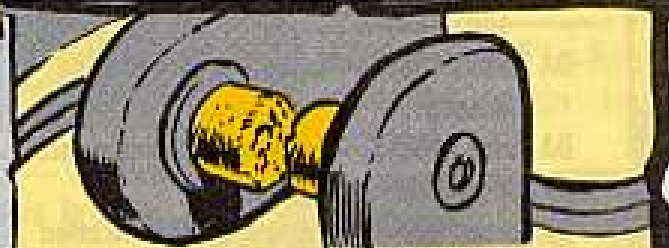


BRAKE LININGS & SHOES — Worn, loose, not operating right.

SPARK PLUGS — Dirty, loose, porcelain cracked, burned, gasket crushed, electrodes burned or eroded, plug threads crossed, gapped wrong (should be 0.030 inch).



DISTRIBUTOR BREAKER POINTS — Points pitted, improper gap (should be 0.022 inch), incorrect spring tension (should be 17-21 oz).



IGNITION — Poorly timed (should be timed with timing light).



HYDRA-MATIC SHIFT LINKAGE — Loose, bent, not synchronized.

CARBURETOR — Improper gas-idle adjustment. Governor exceeds maximum allowable RPM.



STEERING — Wander, shimmy, wrong adjustment (should be 1½ - 2 lb pull).

BRAKE MASTER CYLINDER — Fluid level $\frac{3}{4}$ full.



BATTERIES — Specific gravity below 1.225 at 80° temp (check w/hydrometer). In tropics (Viet Nam) electrolyte not diluted to 1.200 - 1.225 for full charge. Specific gravity below 1.135 (hydrometer corrected for 80°F, see TM 9-6140-200-15, page 39).

WHAT
PARA
NUMBER
?



The pubs you need, depending on which series vehicle you're operating, are as follows:

G-742 series include Multifuel Types
 TM 9-2320-209-10 (Feb 65)
 W/C1 (May 65)
 LO 9-2320-209-12 (May 65)

G-749 series
 TM 9-8024 (Oct 55) W/C3 (Aug 58),
 C6 (May 63) & C7 (Feb 65)
 LO 9-2320-210-12 (Dec 62)

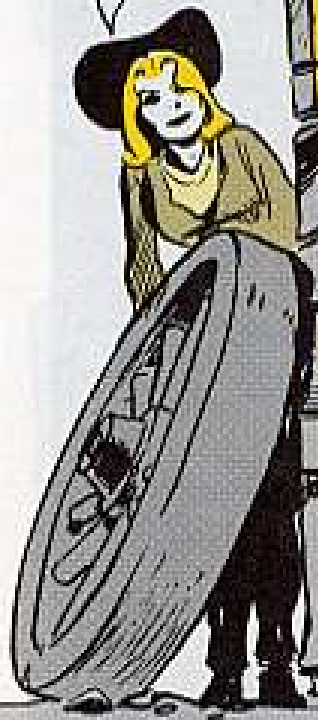
ESC

Your vehicle's log book must also have the ESC manual published for it. That means one of the following:

TM 9-2320-209-ESC/1 (Jun 64)	M43, M35, M36, M36C cargo truck
TM 9-2320-209-ESC/2 (Jun 64)	M47, M59, M342 dump truck
TM 9-2320-209-ESC/3 (Jun 64)	M49, M49C 1200-gal fuel servicing tank truck
TM 9-2320-209-ESC/4 (Jun 64)	M48, M275 tractor truck
TM 9-2320-209-ESC/5 (Jun 64)	M185, M185A1 truck-mounted repair shop & M109, M109A1 van truck & M292 expansible van truck
TM 9-2320-209-ESC/6 (Jun 64)	M108 crane wrecker truck & M60 light wrecker truck
TM 9-2320-209-ESC/7 (Jun 64)	M50 1000-gal water tank truck
TM 9-2320-209-ESC/8 (Oct 65)	M35A1, M35A2 (multifuel) cargo truck
TM 9-2320-209-ESC/9 (Nov 65)	M49A1C, M49A2C (mf) 1200-gal fuel servicing tank truck
TM 9-2320-209-ESC/10 (Nov 65)	M50A1, M50A2 (mf) 1000-gal water tank truck
TM 9-2320-209-ESC/11 (Nov 65)	M185A2, M185A3 (mf) truck-mounted repair shop & M109A2, M109A3 (mf) van truck & M292A1, M292A2 (mf) expansible van truck
TM 9-2320-209-ESC/12 (Nov 65)	M275A1, M275A2 (mf) tractor truck
TM 9-2320-210-ESC/1 (Jun 64)	M135, M211 cargo truck
TM 9-2320-210-ESC/2 (Jun 64)	M215 dump truck
TM 9-2320-210-ESC/3 (Jun 64)	M217, M217C 1200-gal fuel servicing tank truck
TM 9-2320-210-ESC/4 (Jun 64)	M221 tractor truck
TM 9-2320-210-ESC/5 (Jun 64)	M238 truck-mounted repair shop & M220 shop van truck
TM 9-2320-210-ESC/6 (Jun 64)	M222 1000-gal water tank truck

WEEP SEEP LEAK DRIP

HERE'S A CHECKLIST TO HELP YOU DECIDE WHAT TO DO AND WHEN!







Moppin' your brow in a cold sweat because your equipment's gear case, transfer, or differential seems to be leaking . . . and inspection's coming?

And you can't decide whether to tear 'em apart and replace the seals? Before life gets to looking too grim, perk up and know this percolation around grease and oil retainers isn't so tough after all.

It's no fat secret that seals aren't solid walls against lubes — what counts is the amount of liquid loss you can allow.

A little lube gets through seals in such places as transfers and differentials. This you have to tolerate. Besides, TB 9-255 (application of oil seals), says the liquid lubes the seal itself, so some has to get through — especially if it's a seal on a moving part.

What does count is developing a leak that loses too much lube.

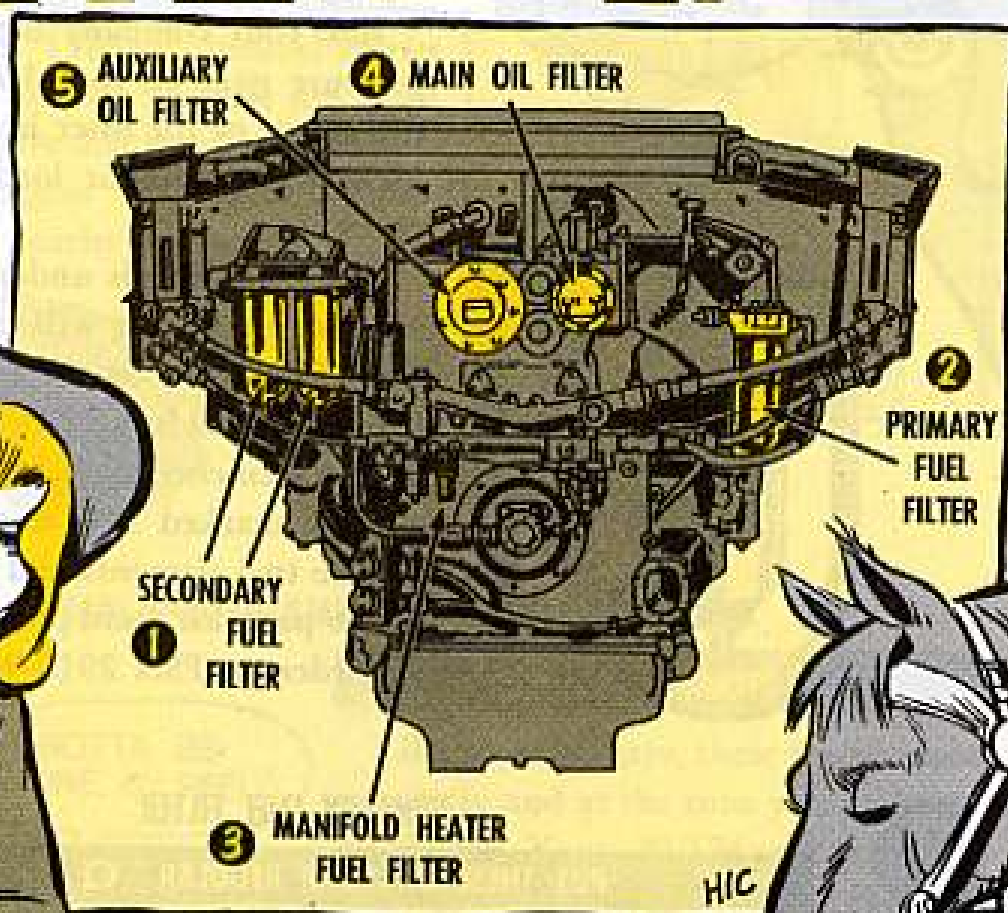
TYPES	WHAT TO DO
 WEEP — Slight fluid loss which stains or discolors, but stays dry to touch.	Leave alone — it's normal.
 SEEP — Slight fluid loss, not enough to make a drop, but moist to touch.	Leave alone — it's normal.
 LEAK — Fluid loss forming droplets.	Change seal only when 20 percent loss occurs between scheduled periodic services.
 DRIP — Fluid loss forming drops to roll or drip away.	If fluid loss is more than 20 percent between scheduled periodic services, change seal.

If your support does change the seal, dampen no crying towels if a bit of lube still gets through. Even depot overhaul (TB ORD 245, Dec 65) permits some loss immediately after road or functional test on an overhauled vehicle.

The only but is liquid leaking out onto brake drums and ruining your whoa-power. That's verboten, not good, and won't pass.

AVDS 1790 ENGINE FILTER FACTS

IT'S A **FACT**⁰⁰⁰ FILTER NEGLECT IN YOUR AVDS 1790 ENGINES IS A MAJOR CAUSE OF FAILURE. LET'S RUN DOWN THESE FILTERS AND TALK ABOUT KEEPING THEM IN SHAPE!



If you've got an M60/M60A1 or M48A3 tank, an M728 (T118E1) combat engineer vehicle, or an M67A2 flame thrower, you'll want to know about this.

If the elements in the fuel and oil filters on your AVDS 1790 engine get clogged or lost your engine won't keep operating long.

At one depot they found over half the AVDS 1790 engines sent in for overhaul had something wrong with the filters.

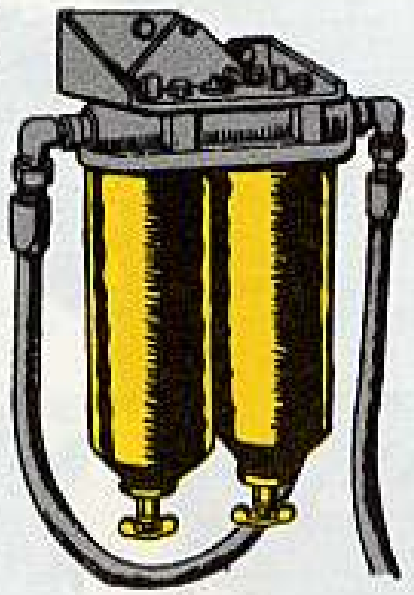
So give the elements in these 5 filters regular servicing like it says to in your vehicle TM's and LO and your engine will wear better and longer.



1

SECONDARY FUEL FILTER

COMPANY MECHANIC WILL CHECK THESE WITH PRESSURE GAGE



The way you tell if the elements in your secondary fuel filter need replacing is to take a pressure check.

Ask your company mechanic to connect his pressure gage to the bleeder plug hole in the top center of the filter head. Run the engine at 2400 RPM without load while he makes his check.

If the reading is under 25 PSI your friendly company mechanic will take off the 2 filter cans and clean them on the inside. He knows these elements can't be used over again so he will put in new elements, assembling them carefully with the end marked TOP in the top position.

The two elements and the 4 gaskets he needs are in parts kit, fluid pressure: secondary, which he orders as FSN 2910-967-9870.

2

PRIMARY FUEL FILTER

PUT THESE ON YOUR REGULAR Q SERVICE

Your -20 TM for the M60/M60A1 tanks tells you on page 2-261 the primary fuel filter should be removed "periodically" for service . . . but how often does that mean?

Change 1 (Apr 66) to that -20 TM says on page 2-50 in the fine print to do it quarterly. That way there's no chance of forgetting to do it.

After the filter element is removed and cleaned your company mechanic will put it back again with a fresh head gasket which he'll cement in place with MIL-C-10523 gasket cement. He'll get the new gasket in gasket set: primary (5702624), ordered as FSN 2910-678-3298.

It's real important that the filter is assembled in the right order. If the parts are in wrong, either the fuel won't flow right or if it does there won't be any filtering action.

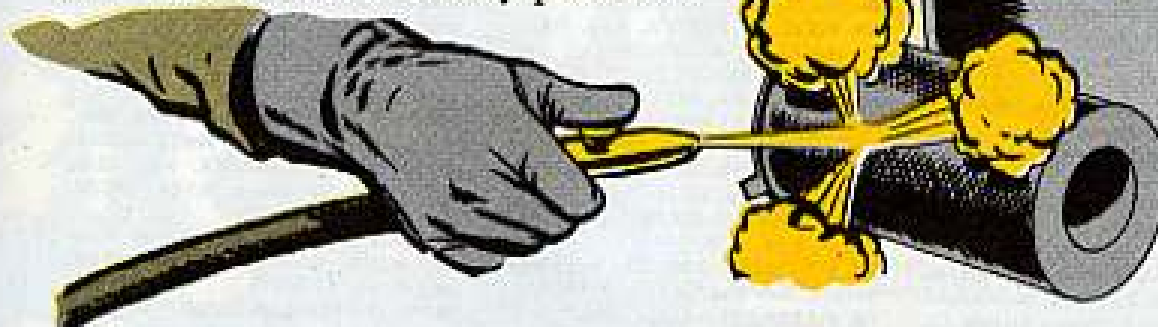


3

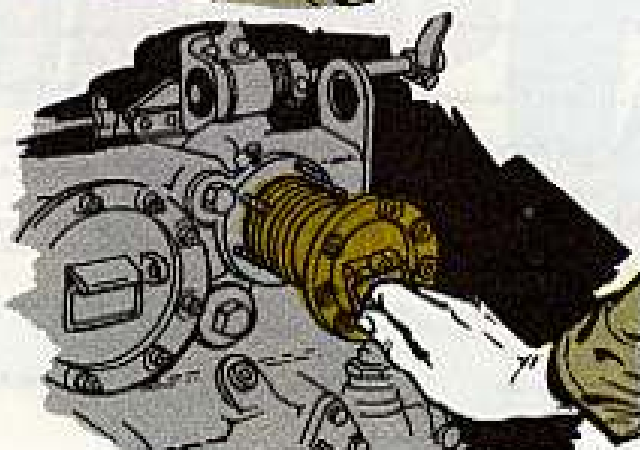
MANIFOLD HEATER FUEL FILTER

Servicing the manifold heater fuel filter is explained in your vehicle -20 TM but there's no word on how often you should do it. Add it to the Q services and you won't forget it.

First you clean the filter with dry cleaning solvent FSN 6850-281-1985 or mineral spirits paint thinner, and then you blow it dry with compressed air to remove dirt particles. Remember to wear your goggles when you use that air — watch out for nearby personnel.



MAIN AND AUXILIARY OIL FILTERS

4**5**

SERVICED QUARTERLY

Like your LO says, these are serviced quarterly and at the time you make an oil change. Your -20 TM tells you how. One thing it doesn't mention, though, is lining up your filter housing so it will slide up tight against its gasket.

Just play around with it, moving the housing a little this way and that until you find the spot where you can slide it up against its gasket with no trouble.

Tightening the nuts to draw the filter housing up just won't work. Unless it's solid against its gasket before the nuts are tightened, dust will get sucked in from the outside.

Remember it like this: Everybody needs a little something.

The vehicle needs its engine.

The engine needs its filter elements.

The filter elements need your loving attention.

A selected list of recent publications of interest to Organizational Maintenance Personnel. This is a list compiled from recent Adjutant General's Distribution Center Bulletins. For complete details see DA Pam 310-4 (May 66) and Change 1 and DA Pamphlet 310-6 (Jul 66).

TECHNICAL MANUALS

TM 1-U8-3, C1, Jul, U-8.
 TM 3-1040-309-13, Jul, Flame Thrower, Mech. Main Armament, M10-8 (FSN 1040-714-1891).
 TM 3-1325-230-13, Aug, Canister Cluster, 130-Lb. and 50-Lb.
 TM 5-2010-201-13, Jul, Propelling Unit, Outboard Dsl Drive.
 TM 5-2420-306-13, Jun, Tractor, Wld, Indust. Dsl Drem (Clark Mod 250M).
 TM 5-3810-232-35, Jun, Crane, Wld Mid, 20 Ton, W/Bulldozer and Earth Moving Blade (American Hoist and Derrick Mod 138D).
 TM 5-4110-305-25P, Mar, Retrigr Unit Mechanical, Panel Type.
 TM 5-4120-215-25P, Jun, Air Conditioner, Floor Mtd, (KECO Mod F0038 MOD) and (KECO Mod F0038).
 TM 5-6115-376-15, May, Gen Set, Dsl Eng, Tractor Mid PU-407/M and Gen Set, Dsl Eng, Trk Mid PU-408/M.
 TM 3-6230-300-35P, Jun, Searchlight, 30 Inch, Wld Mid (Strong Electric Co. Mod 78001-1).
 TM 9-1003-234-13, C1, Aug, Operator & Crew, MGM60 & Mosmi M122.
 TM 9-1005-245-13, C1, Aug, MG Armament Subsystem.
 TM 9-1320-200, Jun, Grenades, Hand and Rifle.
 TM 9-1400-379-13, Aug, Pershing.

TM 9-1410-500-15P/2/1, Jun, Hawk.
 TM 9-1430-250-15P/2/1, May, Nike-Herc Imp.
 TM 9-1430-250-15P/3/1, -15P/6/1, -15P/8/1, -15P/9/1, -15P/10/1, -15P/11/1, -15P/13/1, Jun, Nike-Herc Imp.
 TM 9-1430-250-15P/12, Jun, Nike-Herc.
 TM 9-1430-253-15P/2/1, Jun, Nike-Herc Imp.
 TM 9-1430-254-15P/1, Jun, Nike-Herc Imp.
 TM 9-1430-268-15P/1, Jun, Nike-Herc Imp.
 TM 9-1430-511-15P/1, Jun, Hawk.
 TM 9-1440-250-15P/1/1, Jun, Nike-Herc Imp.
 TM 9-2300-216-20P, C2, Aug, Gen, SP, M107 and Howitzer, M110.
 TM 9-2300-224-ESC/10, Aug, Carrier, Mortar, 81-MM, SP M125A1.
 TM 9-2320-211-ESC/2, Aug, Trk, Wrecker, M62, M543.
 TM 9-2320-211-ESC/3, & ESC/9, Aug, Trk, Tractor, M52, M246.
 TM 9-2320-211-ESC/5, Aug, Trk, Dump, M51.
 TM 9-2320-211-ESC/6, & ESC/7, Aug, Trk, Cargo, M54.
 TM 9-2320-211-ESC/8, Aug, Trk, Cargo, M54, M35.
 TM 9-2320-211-24P, C2, Aug, Semi-trailer, Low-Bed, M172, M172A1.
 TM 9-2330-235-14, Jun, Hawk.
 TM 9-4935-252-25P/3/1, May, Nike-Herc Imp.
 TM 9-4935-306-15P/7/2, Jun, Sergeant.
 TM 9-4935-303-12P/1, Jul, Sergeant.
 TM 9-4935-274-15P/1/2, Jun, Nike-Herc Imp.
 TM 9-4935-306-15P/3/2, &

-15P/7/1, Jun, Sergeant.

MODIFICATION WORK ORDERS

MWO 9-1005-213-30/1, Aug, MG, M2 and Howitz.
 MWO 9-1053-217-30/1, C1, Sep, 2.75-In RLXM-3. (URGENT)
 MWO 9-1270-205-30/1, Jun, Operator & Crew, Rocket Launcher XM16 and Rocket Launcher XM21.
 MWO 9-1400-376-30/13, & -30/15, Aug, Pershing.
 MWO 9-1400-377-30/17, Aug, Pershing.
 MWO 9-1430-511-30/20, Aug, Hawk.
 MWO 9-1440-376-30/33, & 30/59, Aug, Pershing.
 MWO 9-1450-375-30/25, Aug, Pershing.
 MWO 9-2300-275-30/1, Jul, Tank, Combat, Gun, M41, M41A1, M41A2 and M41A3, M48, M48A1, M48C, M42 and M42A1, Howitzer, M52, M52A1 and M55, M53 Tank, M103A2 and M67, and PC, M73.
 MWO 9-2350-215-30/19, C1, Jun, Tanks, Combat, Guns, M60, M60A1.
 MWO 9-2520-234-30/1, Aug, Gen, SP, M107, Howitzers M108, M109, and M110, BY M578.
 MWO 9-2815-202-30/2, Aug, Gen, SP, M107, Howitzers M108, M109, and M110, BY M578.
 MWO 9-4900-500-30/50, Aug, Hawk.
 MWO 9-4935-377-30/121, -30/129, & 30/131, Aug, Pershing.
 MWO 55-1500-200-20/7, Aug, UH-1B and UH-1D.
 MWO 55-1500-200-30/7, C1, Sep, UH-1A, UH-1B, UH-1D.
 MWO 55-1510-205-34/3, Jun, U-1.

REAL HANDY PUBS

Here are some real handy pamphlets you may find useful in your maintenance and supply operations.

DA Pam 350-20, Commanders' Supply Handbook.
 DA Pam 350-21-1, Unit and Organization Supply Procedures.
 DA Pam 350-21-2, Unit and Organization Supply Procedures.
 DA Pam 350-22-1, Stock Control and Supply Accounting Procedures for Direct Support Units.
 DA Pam 350-22-2, Stock Control and Supply Accounting Procedures for Direct Support Units.
 DA Pam 350-23, Officers and NCO Whose Primary Duty is not Maintenance.
 DA Pam 350-24, Motor Officer/NCO/Maintenance Officer.
 DA Pam 350-25-1, Organization Mechanic/Repairman Course, Armored Carrier—M113.
 DA Pam 350-25-2, Organizational Mechanic SP Artillery.
 DA Pam 350-25-3, Organizational Mechanic M60A1 Tank.
 DA Pam 350-25-4, Organizational Mechanic M60A1 Tank Turret.
 DA Pam 350-26-1, Utility Truck, 1/2 ton, M151.
 DA Pam 350-26-2, Dump Truck, 5-Ton M51.

DA Pam 350-26-3, Wrecker Truck, Medium, 5-Ton, M543.
 DA Pam 350-26-4, Amphibian Resupply (LARC Y).
 DA Pam 350-27-1, Radio Set AN/PRC-6.
 DA Pam 350-27-2, Teletypewriter Set AN/FGC-1.
 DA Pam 350-27-3, Radar Set AN/PPS-4.
 DA Pam 350-28, Helicopter.
 DA Pam 350-29-1, Materials Handling Equipment.
 DA Pam 350-29-2, Power Generator Equipment.
 DA Pam 350-30, Compressor.
 DA Pam 350-31-1, M113 Armored Carrier (Operator).
 DA Pam 350-31-2, Self-Propelled Artillery.
 DA Pam 350-31-3, M60A1 Tank.
 DA Pam 350-32-1, Utility Truck, 1/2-Ton, M151.
 DA Pam 350-32-2, 5-Ton Dump Truck, M51.
 DA Pam 350-32-3, Wrecker Truck, Medium 5-Ton, M543.
 DA Pam 350-32-4, LARC Y.
 DA Pam 350-33-1, Radio Set AN/PRC-6.

DA Pam 350-33-2, Teletypewriter, AN/FGC-1.
 DA Pam 350-33-3, Radar Set AN/PPS-4.
 DA Pam 350-34, Helicopter, UH-1B.
 DA Pam 350-35-1, Materials Handling Equip.
 DA Pam 350-35-2, Power Generator Equip.
 DA Pam 350-36, Compressor.
 DA Pam 750-1, FM Guide for Commanders, Jan 65.
 DA Pam 750-1-2, FM Guide for Commanders, Nike-Herc, Aug 65.
 DA Pam 750-1-3, FM Guide for Commanders, Hawk, Jun 64.
 DA Pam 750-2, Post Level FM Course.
 DA Pam 750-4, Combat Readiness, Aug 64.
 DA Pam 750-7, Army Maintenance Management System, Material Readiness for Commanders, Dec 65.
 DA Pam 750-8, Commanders Guide, Ready Men and Ready Material, Apr 66.
 DA Pam 750-10, CMMI Handbook, Jun 66.

JOE'S
DOPE

**KNOW-GO
A'GO-GO
ON ICE 'N' SNOW,**

JOE

HARK TO THE WORDS OF
NACOOKE-OF-THE-NORTH
A GIRL WHO KNOWS
WHAT ICE DOTH WROTH (HUH?)
AN ESKIMO WHO...
KNOWS HER SNOW!!
AND HELPS THE TROOPS
TO A-VOID WOE...

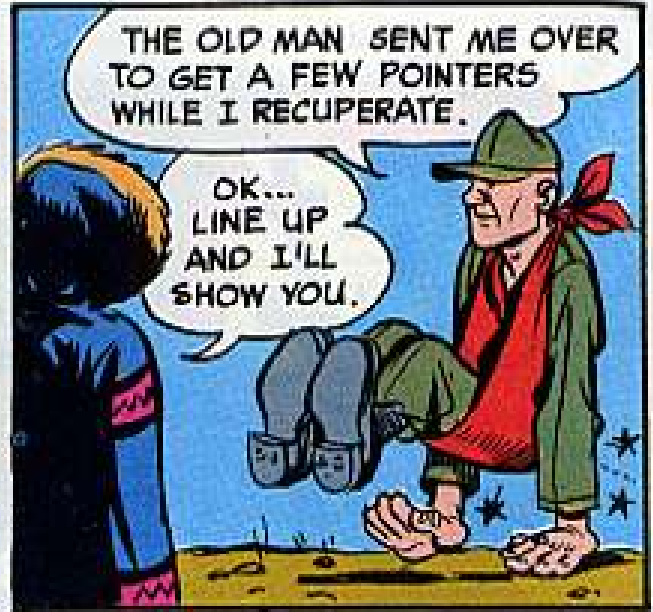
Y'CHH
THAT'S
POETRY?

**ICY
DRIVING
CLASS**



YOU SAID THERE WAS GONNA BE A LOTTA HEAD-WORK, SO I BROUGHT MY HEAD.

YES, BUT...



THE OLD MAN SENT ME OVER TO GET A FEW POINTERS WHILE I RECUPERATE.

OK... LINE UP AND I'LL SHOW YOU.



THE BIG SECRET IN WINTER DRIVING IS USING YOUR HEAD.

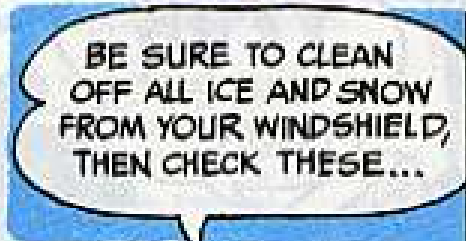
DON'T DROP ME, DOLL.



THAT... COUPLED WITH SOME TRICKS OF TH' TRADE WILL MAKE YOU A PRO!



FIRST... YOUR TM GETS YOU FAMILIAR WITH YOUR VEHICLE.



BE SURE TO CLEAN OFF ALL ICE AND SNOW FROM YOUR WINDSHIELD, THEN CHECK THESE...



TIRES... PROPER PSI FOR ICE AND SNOW



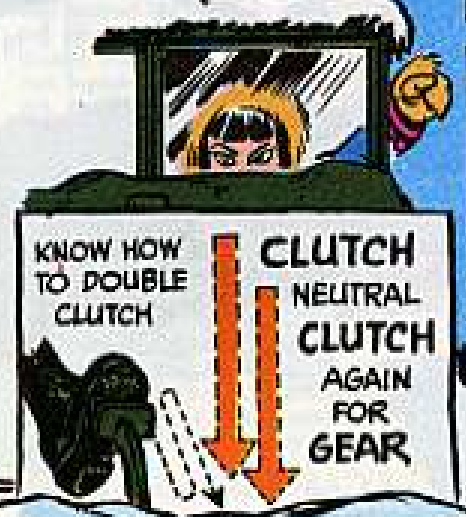
LIGHTS AND OUTSIDE MIRRORS



CHAINS... PROPER TYPE?



WIPERS AND DEFROSTERS



KNOW HOW TO DOUBLE CLUTCH

CLUTCH
NEUTRAL
CLUTCH
AGAIN
FOR
GEAR

LEARN TO USE THE ACCELERATOR, THE BRAKES AND STEERING SO THEY WORK TOGETHER SMOOTH!

YOU MUST BE IN CONTROL OF TRACTION AND MOMENTUM ALWAYS

... TRACTION!
IS YOUR GRIP
ON THE ROAD!!

AND MOMENTUM
IS THE SPEED
OF YOUR
VEHICLE!!



IT WORKS LIKE SO...

MOMENTUM
TOO SLOW
FOR WHEEL
SPEED

BREAKS-TRACTION

RESULT

MOMENTUM
TOO FAST FOR
WHEEL SPEED

BREAKS TRACTION

RESULT

MOMENTUM
IN TUNE
WITH
WHEEL
SPEED

GOOD TRACTION

RESULT

CONTROL

STARTING SUDDEN
CAUSES SKIDDING
SO... START SMOOTH -
NO JERKING... OR
YOU'LL LOSE PRECIOUS
TRACTION!

WHY?

TOO MUCH
MOMENTUM
CANCELS OUT
TRACTION.

SKID! SCREECH

WHETHER TO USE YOUR BRAKES OR ACCELERATOR
TO KEEP TRACTION DEPENDS ON YOUR MOMENTUM.
NOW FOR SOME ACTUAL DRIVING TIPS →

ADJUST YOUR DRIVING TO THE WEATHER AND ROAD CONDITIONS

BE FAMILIAR WITH THE ROUTE YOU ARE TRAVELING... BUT MAPS AREN'T ENOUGH.

LIKE THOSE SHARP CURVES, AND FROZEN BRIDGES. WATCH 'EM.

LOOK AHEAD-- KEEP YOUR EYES MOVING... BE READY TO STOP AT ALL TIMES, EASE UP TO A HALT 20 TO 30 FEET SHORT. THAT EXTRA ROOM IS FOR UNEXPECTED TROUBLE.

WATCH SHAPED AREAS THAT STAY ICY!!

YOU MUST BE SURE OF ALL THE TRICKY SPOTS AHEAD.

FEED ENOUGH GAS TO HELP YOU AROUND CURVES, AND TO HOLD TRACTION EASY...NO JERKING.

SLOW DOWN BEFORE GOING INTO A CURVE OR DOWNGRADE. ENGINE DRAG HELPS, TOO. JUST EASE OFF ON THE GAS.

MOMENTUM HELPS YOU THROUGH CURVES, AND SLICK SPOTS. BUT TOO MUCH CAN KILL TRACTION AND YOU SKID.

BRIDGES AND OVER-PASSES ARE USUALLY SLICK. COLD AIR PASSES UNDER THEM AND WATER WILL FREEZE FAST. NO EASY ON THE GAS, NO JERKS. ROLL THRU, KEEP TRACTION.

NEVER SLAM ON THE BRAKES. IF TAP-TAP 'EM SO YOU DON'T LOSE YOUR TRACTION. FRONT WHEELS LOCK WITH HEAVY BRAKING, AND YOU HAVE NO STEERING.



When driving on ice and on snow, it's not how fast you can go. It's using your head; On the brake lightly tread. Then no wrecker will have you in tow.

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.



ON HILLS, BE SURE YOU'RE CLEAR GOIN' DOWN. SUDDEN BRAKING WILL KEEP YOU FROM HAVING MOMENTUM FOR GOING UP NEXT HILL.

HIT BOTTOM OF HILL WITH ENOUGH MOMENTUM TO GET YOU UP THE NEXT SLOPE, AND DON'T STOP, KEEP MOVING.

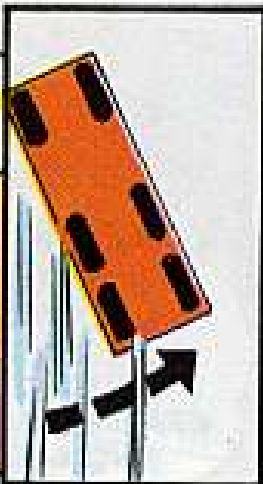
DOWN HILL FORMULA

CUT SPEED BEFORE STARTING DOWN

HOLD TRACTION GO DOWN IN LOWEST POSSIBLE GEAR--UP IN HIGHEST POSSIBLE GEAR.



EASY SPEED CHANGES AND **EASY** BRAKING KEEPS MOMENTUM FROM CANCELING TRACTION... AND YOU DON'T SKID...

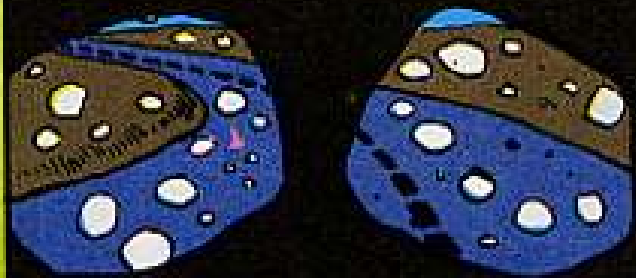


DON'T OVER-STEER-- JUST ENOUGH TO CORRECT YOUR SKID.

NOW THAT YOU'RE ROLLING, HOW FAR AHEAD CAN YOU SEE?



SO EASY ON THAT MPH

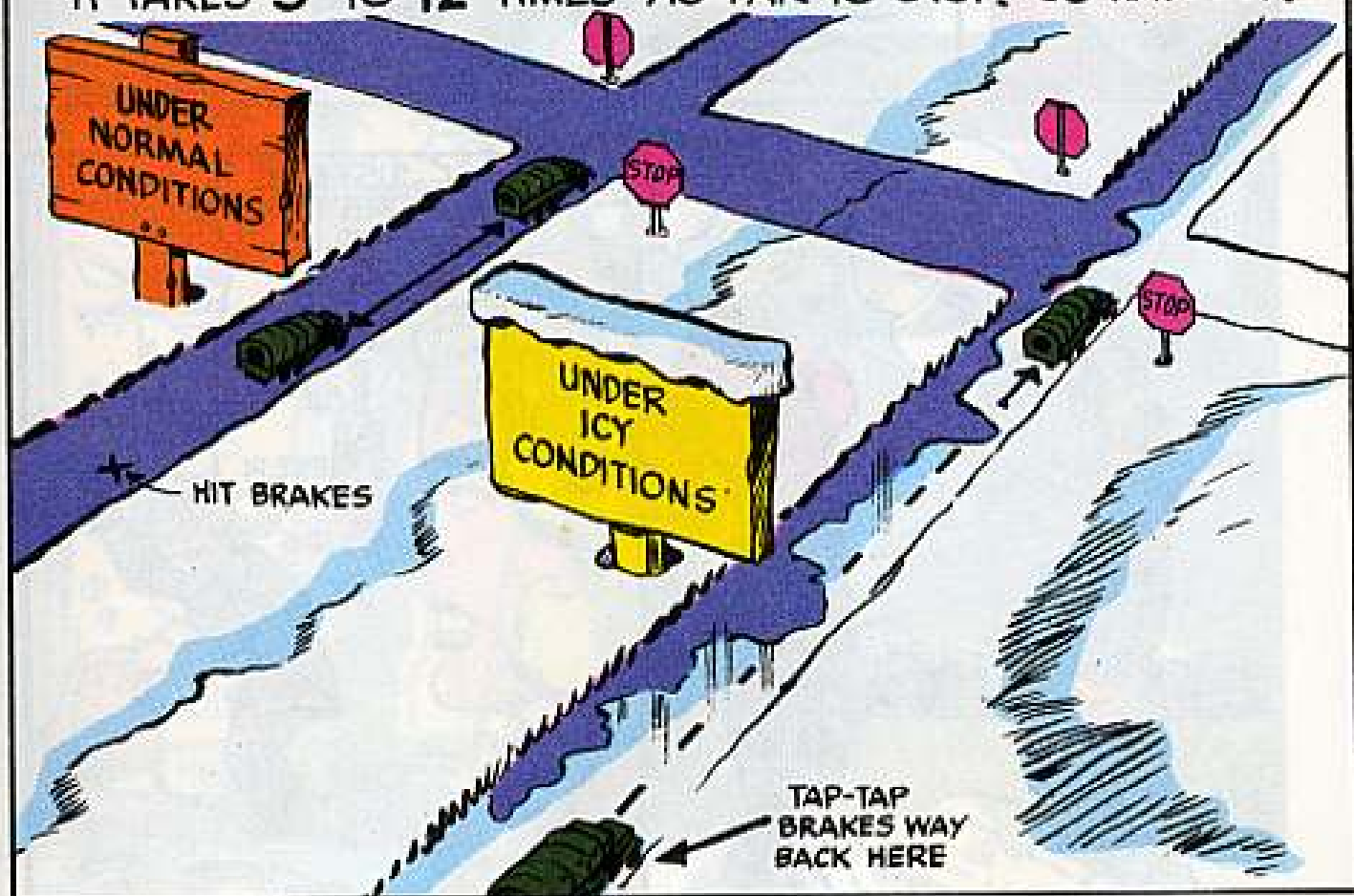


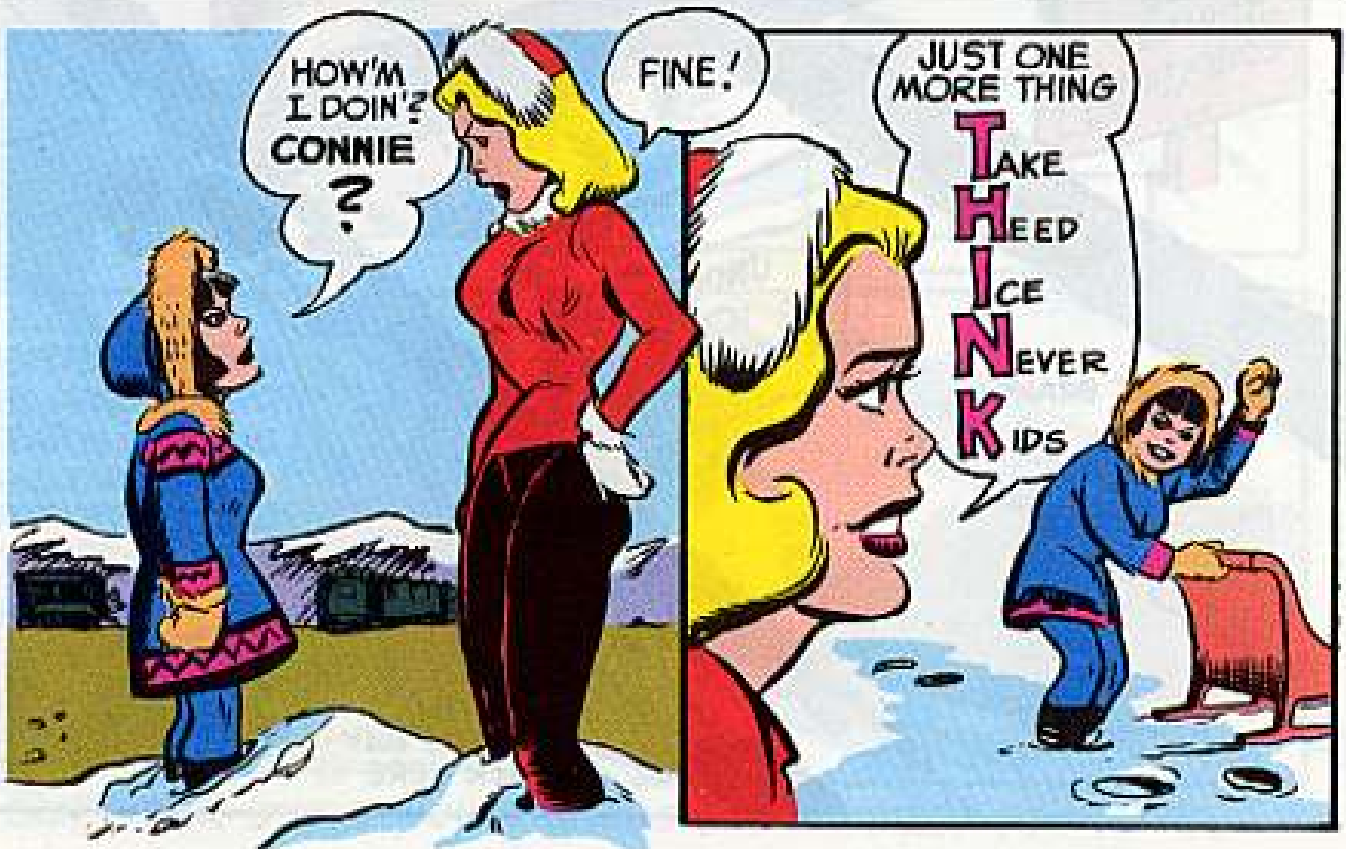
ESPECIALLY IF YOUR VISIBILITY IS LIMITED, LIKE IN A SNOWSTORM.

REMEMBER, YOU NEED A **LONGER DISTANCE** FOR STOPPING ON ICE OR SNOW!



UNDER ICY CONDITIONS IT TAKES **3 TO 12** TIMES AS FAR TO STOP! SO WATCH IT!







MAKE LIKE MR. CLEAN!



Dirty microswitches got your Seminole (U-8) landing gear indicators snafued? Like maybe the gear is down and locked but the horn or visual indicator doesn't confirm it, giving the pilot a bona fide 4-flusher alarm!

Can happen. So, better gleam the cleaning poop in para 1-74d of TM 55-1510-201-20 (29 Apr 66) for PM tips — 'specially if you're crewing a Seminole in a frigid, rigid climate.

And remember, if you have to replace or adjust one of the switches you gotta pull the special inspection called for in chap 3, sect II, page 3-4 of the organizational maintenance pub.

TO GET RID OF THESE VILLAINS... KEEP A DE-ICER SPRAY CAN HANDY.

DE-ICER
FSN 6850-835-0484

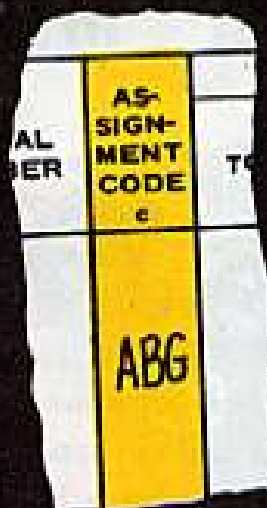
SPRAY MICROS BEFORE EACH TAKE-OFF AND AFTER EACH LANDING
CLEAN AND DRY THE MICROS

FOR CLEANING TIPS

TM 55-1510-201-20

THE NEW CODE

YOU USE
EITHER
THREE
OR
FOUR
CHARACTERS.



Hold one before you fill out your monthly DA Form 1352 on aircraft inventory, status and flying time! The whole assignment reporting code (block c) is changed, effective Dec 66, as directed by Dept of Defense.

The new codes, spelled out in DA Message 786812 (17 Oct 66) and revised by DA Message 789300 (4 Nov 66) supplement the codes in para 4b(3) of AR 710-12 (20 Aug 65).

Now, in addition to the mission assignment info you gave in the past, you also give with the function assignment. This added poop will help the Army with planning, distribution, programming and budgeting for aircraft.

From here on out you'll have three alphabetical characters for all codes except Code D and Code S. The first character gives the mission assignment and the second and third characters give the function assignment.

If your bird falls under training and support (Code D) or storage (Code S) you will have four characters. The first two characters represent assignment and the last two represent the functional bit.

The new code should be coming your way from your headquarters right now. You might want to meet it half-way to get a head start.

LIGHT UP!



Burned out bulbs in your portable, emergency airfield runway light set, FSN 6230-542-6680, leave you in the dark? Then latch on to a package of 2 clear, incandescent lamps of 5.1 volts, 15 amps with miniature screw base— for 72 cents. It's listed in Fed Cat C6200-IL-A (1 Jan 66) as FSN 6240-155-8681.



**LUBRICATOR
PUB HERE**

**DON'T
FRET,
L'L FELLER,
YOU'VE
BEEN
UP-
GRADED
!**

Dear Windy,

We're having a heck of a time trying to order parts for our battery powered lubricator, Model F-61-BC, FSN 4930-806-7970. The little green book that came with the outfit just doesn't fill the bill. Any ideas?

SP5 J. J. R.

SURE!



Dear Specialist J. J. R.,

Your Model F-61-BC has been upgraded to a Model F-63-BC and the pub for this baby is TM 10-4930-206-13 (11 Feb 66). Since these models are exactly the same the TM applies to both units.

By the way, FSN 4930-806-7970 is a family number. The lubricator listed in the TM carries FSN 4930-914-7294 for the Model F-63-BC and FSN 4930-914-7213 for the Model 331400.

Windy

NEW DRIVE SHAFT GREASE

If you Huey (UH-1B, D) mechanics requisition grease, Multifak EP-2, formula 1952, P/N 204-040-755-1, FSN 9150-082-2533, for the transmission-to-engine drive shaft—and you don't get it—no sweat! When the supply of this grease is exhausted you'll get an improved type . . . Anderol L-786, P/N 204-040-755-3, FSN 9150-926-1969.

YOU
GONNA FILTER
ALL THESE 10,286
GALLONS OF GAS
WITH THAT?



GO GO GO

WITH

CLEAN

FUEL

HOOK-UP TO MECHANICAL PUMP

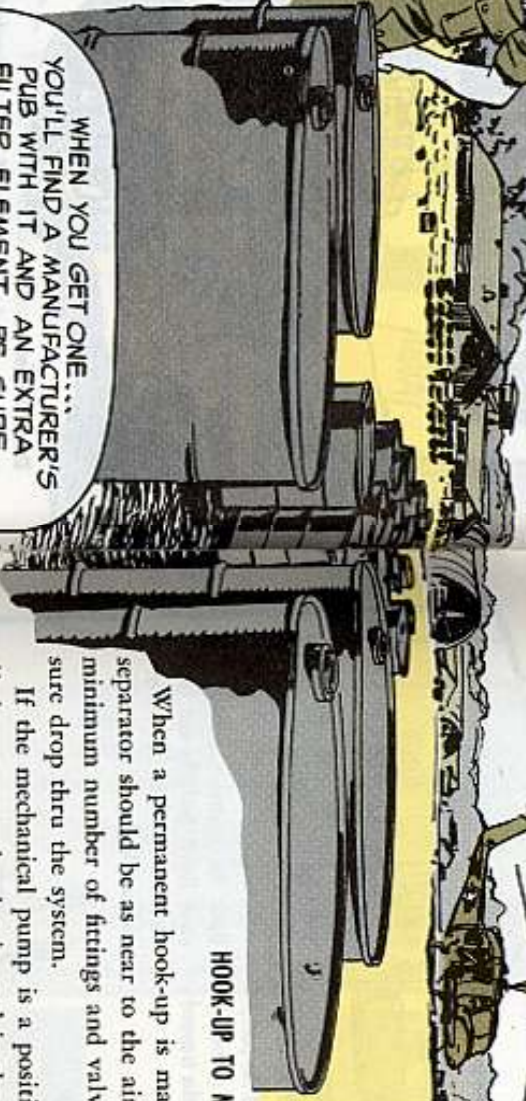


You ever get stationed in the boonies with 55-gal drums of AvGas or JP-4 and have to make with a chamois to filter out water and dirt during the refueling? Sure you have!

Well, you don't have to fuss and fume over that chore any more. Now you can get Filter Separator, liquid fuel, aluminum skid mid, 15 GPM, 25 PSI, FSN 4330-051-0666. It's listed in Red Sup Cat C4320/30-II-A (1 May 66) ... on page 123.

This little gem does a first-rate job of getting rid of the fuel contamination villain, as any user in a hot, dusty outpost will tell you.

WHEN YOU GET ONE... YOU'LL FIND A MANUFACTURER'S PUB WITH IT AND AN EXTRA FILTER ELEMENT. BE SURE THE PUB STAYS WITH THE FILTER SEPARATOR BECAUSE THERE'S NO TM IN THE WORKS.



When a permanent hook-up is made, using a mechanical pump, the filter separator should be as near to the aircraft refueling area as possible with the minimum number of fittings and valves. This will give you only a slight pressure drop thru the system.

If the mechanical pump is a positive displacement type or if an automatic discharge control valve is used in the system, you gotta put in a by-pass relief valve to guard against pressures which can rupture the unit when the discharge valve is closed. Although this baby has been tested to 62 PSI, the operating pressure is 25 PSI. Also, be sure you open and close the flow valves in the right order to prevent hydraulic hammer which might rupture the unit.

HOOK-UP TO HAND PUMP

Of course, you won't have a problem of too much pressure when you hook the filter separator into your Dispensing Pump Assembly, hand-operated piston-type, FSN 4930-276-0087.

- OUTLET CONNECTOR GOES TO AIRCRAFT —
- HAS NAME PLATE



Once the hook-up is done, recheck all the connections to make sure they're tight so you don't have any leaks.

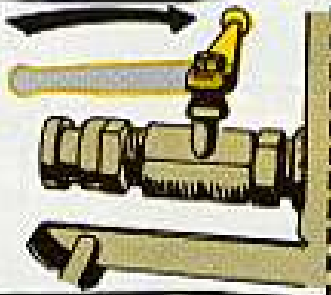


FILL 'ER UP!

ALL SET? GOOD SHOW!...
YOU'RE JUST ABOUT READY
TO SHOOT THE WORKS!

BE
SURE...

BLOCKING VALVES
ARE CLOSED



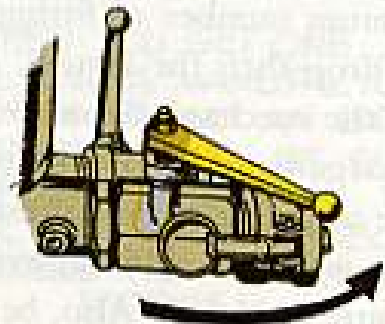
AND...

MANUAL WATER
DRAIN VALVE IS
CLOSED.

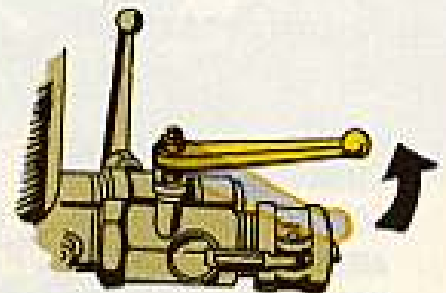


Then, after you start the pump:

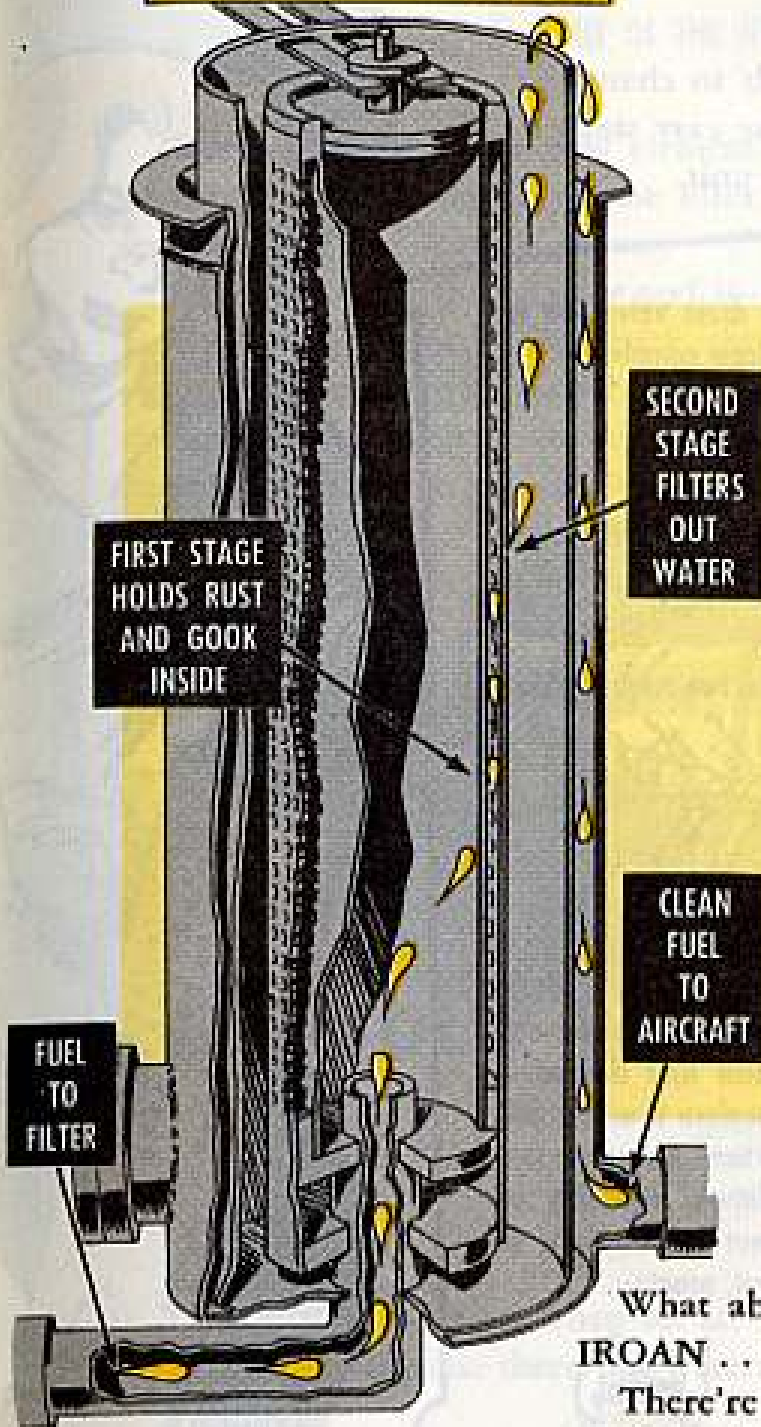
1. Open the vent valve at the top of the cover to let the trapped air out.
2. Open the upstream blocking valve (inlet) partially and let the filter separator fill slowly and completely.



3. When the unit is completely filled and a small amount of fuel comes out of the vent valve, close the vent and open the downstream blocking valve (outlet) to full open.
4. Open the upstream blocking valve full open and you're ready to refuel your aircraft with clean fuel.



HERE'S HOW IT WORKS



MAKE OPERATOR CHECKS


The pressure drop on your new unit should be 2.5 PSI or less. But as foreign particles build up on the inside of the filter element this pressure will increase. Therefore, the pressure should be measured with indicator, pressure, differential, P/N MC134MFP85, Manufacturer's code 06816 (or equivalent gage) to determine when you need a new element.

When the pressure reaches 15 PSI you put in a new element. You should also drain out the water and open the air vent valve, daily.

PULL IROAN MAINTENANCE

What about maintenance? It's practically nil—IROAN . . . inspect—and repair only as necessary.

There're no moving parts and about the only ones you'll need to replace are the . . .



YOU FILTER THIS FUEL?

Filter Element, FSN 4330-983-0998 (which comes with an O-ring in each end)...



. . . the O-ring, Canister Top, FSN 5330-291-3076...



. . . the O-ring Canister Bottom, FSN 5330-265-1077...



. . . and the Cover O-ring, P/N 97403, MS 13207E9035.



TAKE THE ELEMENT OUT

You don't need any special tools to change the filter element. Just follow these easy steps after you stop pumping fuel to the unit.

1. Close the inlet and outlet blocking valves.



2. Open the drain valve and let the unit drain completely.



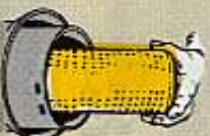
3. Take off the cover and eye the cover O-ring for damage and deterioration. If the O-ring is shot or it doesn't set in the groove right, put on a new one.



5. Take hold of the knob on the canister top plate with one hand and press down around the top outer edge of the canister with the other hand. A gentle pull on the knob will release the top plate. Eye the top plate O-ring for deterioration and make with a new one if it's shot.



7. You don't have to take out the canister unless you suspect damage or you need to replace a shot O-ring in the bottom mounting plate. Then, a firm pull straight upward will release the canister from the mounting plate.



44

PUT IN THE NEW ELEMENT

Before you put in the new element be sure to eye the inside of the filter separator for any foreign matter.

Then, put back the canister and insert the new element. Put back the retainer top, making sure it's flush with the top of the canister so you get a complete seal and so you can insert the two retaining bars. You might have to



coat the top plate O-ring with Petroleum, Fed Spec VV-P-236, FSN 9150-250-0931, to get the cover flush with the canister top. Add the two retaining bars and the cover and you've got it made.



Yesir-e-c-c, a \$200 investment in one of these little gems should go a long way to cut down on those reports that give the cause of an accident as "fuel contamination."

GET YOUR WATER DETECTOR KIT

The price is too high when an aircraft augers in because there was water in the fuel.

Sure, you can spot clear, settled water in AvGas, but what about the water that hasn't settled—especially in JP-4 where it takes a lot longer?

The capsules in Detector Kit, automotive and aviation fuels, FSN 6640-892-2264, will tell you (by a color change) if your AvGas or JP-4 test sample has water in it—down to 30 PPM (parts per million).

Course all the latest know-how on sampling our aviation fuels is in TM

TM 10-1101
PETROLEUM HANDLING
EQUIPMENT
AND
OPERATIONS

ASTER DATES
REPLACES

10-1101, Petroleum Handling Equipment and Operations (28 Jul 65). The water detector kit is covered in paragraph 122.

The price is right for this kit, listed in Federal Supply Catalog C6630/6640-ML (1 Aug 66).



TRY THIS DAMPER FIXTURE!

FIXTURE!

Dear Editor,
Any time you replace the Huey (UH-1B, D) stabilizer bar dampers you have one tough time keeping the main rotor stabilizer bar perpendicular to the mast while you're trying to adjust the control tubes. This rigging takes a couple of men and some doing.

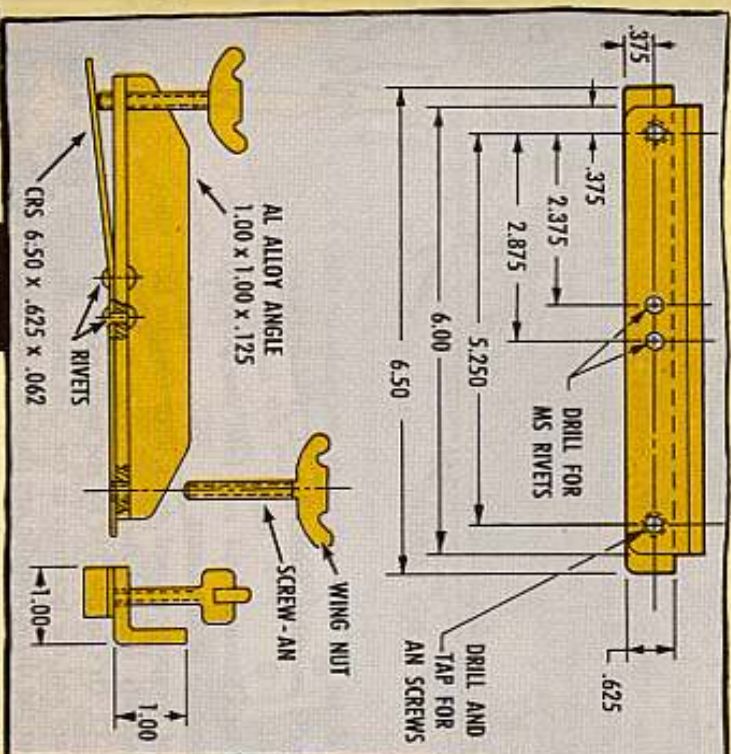
Well, that is the way it used to be here before we came up with this little stabilizer bar fixture.

To use the tool you hold the protractor on the stabilizer bar to make sure the bar is level. Then you slip this little tool over the shelf on the stabilizer bar support and tighten the 2 wing nuts against the stabilizer bar center frame. This operation locks your stabilizer bar perpendicular to the mast.

Install the damper lever on the damper wingshaft and turn the shaft to align the pin with the mark on the cam as seen thru the damper window. Reposition the damper lever on the wingshaft horizontal to the closest separation, keeping the pin and cam relationship. Then you adjust the control tube as necessary and connect the rod end to the leading side of the damper lever.

This little jewel works so well that one man can do the whole rigging operation.

SP4 Jan J. Stage
Mr. Mathias Leenboeck
US Army Avn Maint Center
USAREUR



(Ed Note—Good going. Looks real handy for the damper adjustment called for in para 8-36, page 8-21 of TM 55-1520-210-10, 28 Dec 65.)

M5 SUBSYSTEM:



Here you are, men: A fistful of advice and plain PM tips from guys who've made the big scene with the M5 40-MM grenade launcher subsystem.

Hed what you read and you'll escape an assortment of woes with the launcher . . . the sighting station . . . the ammo . . . and you name it.

M75 LAUNCHER

Never douse the can and cover assembly or the drive-spindle assembly with lube oil, JP-4 or cleaning solvent.

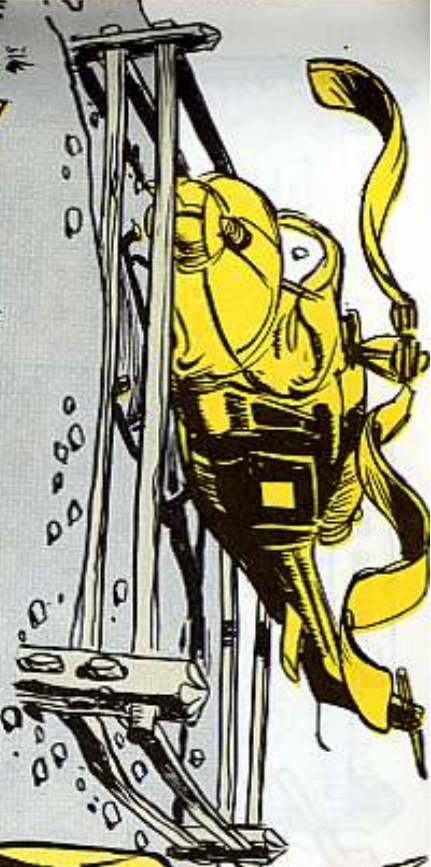
Never let cleaning fluid run into the powered drive assemblies of the turret.

A lot of weapons missed dates with Charlie because somebody ignored these warnings in LO 9-1010-207-12. (It's in the TM by the same name.)

The gears and the bearings in the can and cover and also in the drive spindle are packed with long-life lubricants. Any more lube will gum up the works. And the gears and electric motors in the powered drive assemblies of the turret will be ruined by solvent.



48



Make sure the straight-headed pin (FSN 5315-930-0103) is included in your unit's PLL. This pin connects the front leg of the launcher receiver to the shaft of the sun gear in the cam drum. It takes a beating and may need replacing any time you get a weapon stoppage . . . like when the gun jams or you get a hangfire.

O'course, the best way to save these pins is to avoid stoppages . . . by good all-around and frequent weapon PM, and especially by doublechecking the ammo belt before loading to make sure the links are positioned OK.

Keep an eye on the turret support screws. They sometimes work loose from vibration.

Be careful how you tighten 'em, though. If you screw 'em in too much, they'll shear off. A lot of outfits use Locking Torque (Inch-Pounds) paste . . . FSN 8030-081-2333 (10-cc bottle), on the screws before tightening 'em. Makes a good field fix. You'll find this paste on page 68 of Fed Cat C8000-11-A (1 Jan 66).

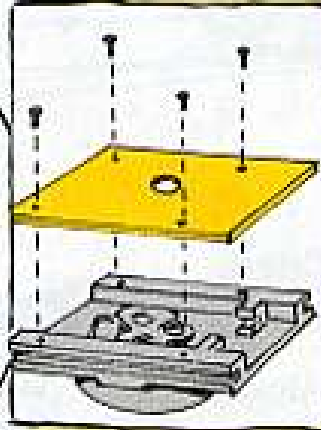
49

SIGHTING STATION

Never fail to lube the sight-pivot-shaft area every week. Otherwise, the shaft might seize and your gunner will have a tough time.

HERE'S WHAT YOU DO

LUBE BEHIND THE PLATE ON THE CENTER PIVOT PIN, ON THE BALL-BEARING RACEWAYS AND UNDER THE MAIN GEAR ON THE SHAFT.



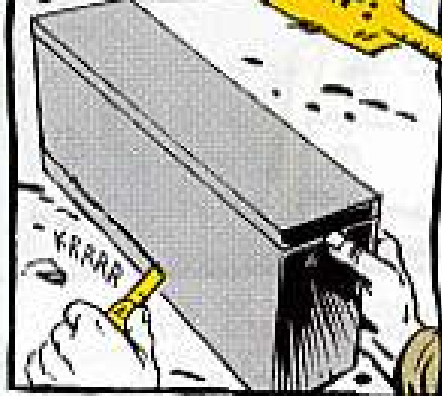
1
Remove the 4 screws on the cover plate to get at the main gear.

2
Then apply a thin coat of Aircraft and Instrument Grease...



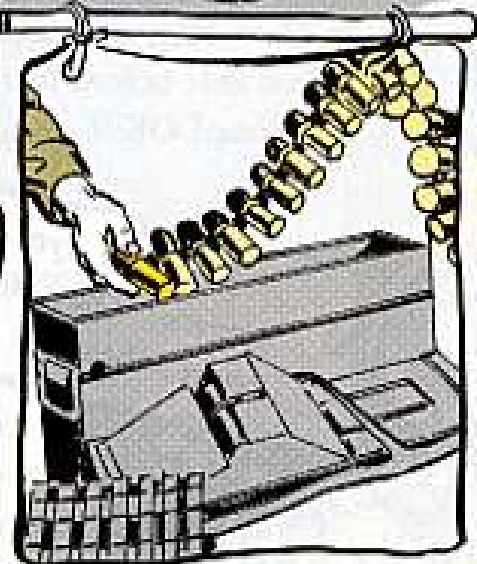
AMMUNITION

Think — and save time — before you open a new case of ammo.



Ammo's normally packed the same way every time.

If the ammo's going right into the chuting, open the case from the bottom so that you'll expose the first round with its female connection. This connection mates up with the ammo load-



ing cable.

If you're putting the ammo in a storage container, open the top of the case so you'll expose the last round with its male connection.

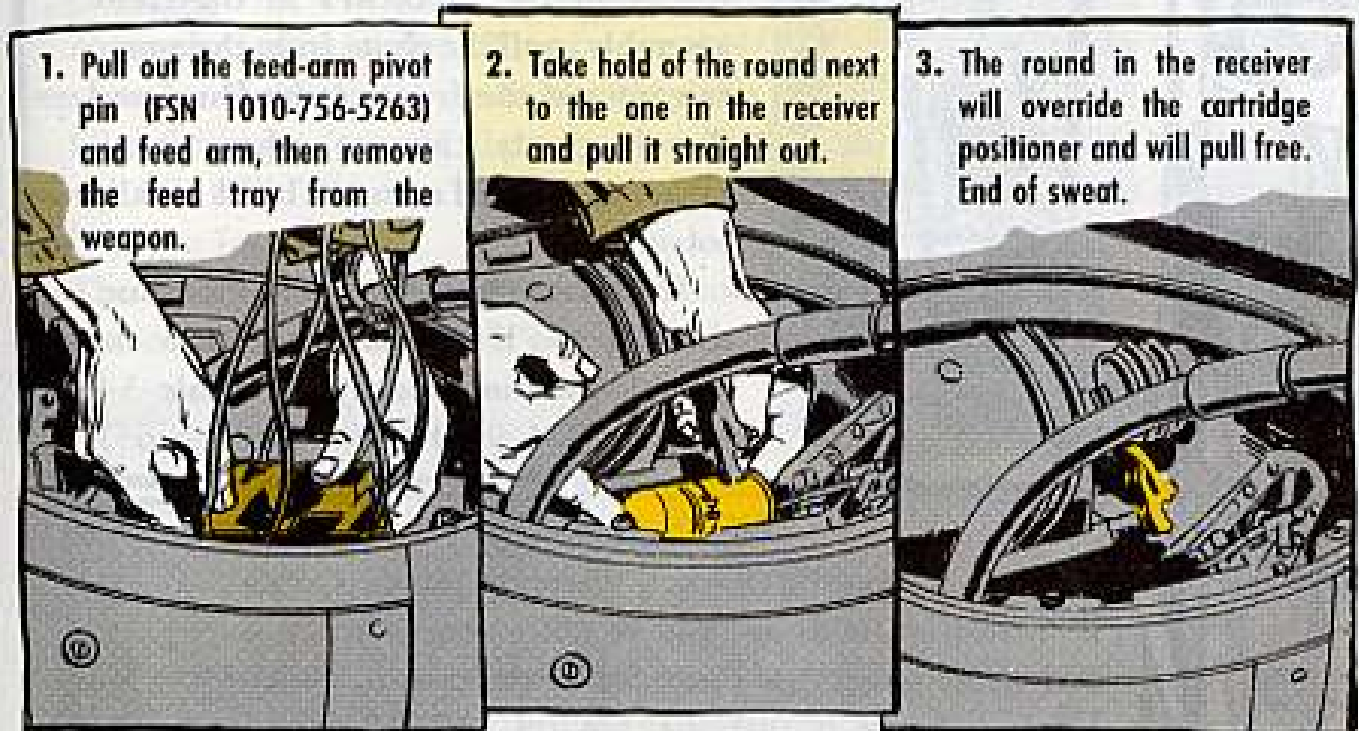
Never lay your ammo belt on the ground. It'll pick up junk that could put your launcher out of action when you need it most.



(The longer-life variety):

Never play roulette with ammo.
Here's the fastest, safest way to get left-over live ammo out of your system after landing.

INSTEAD,
LAY THE BELT
ON THE CABIN
FLOOR... OR
ON BOXES...
OR ON A TARP
OR THE
LIKE!!



1. Pull out the feed-arm pivot pin (FSN 1010-756-5263) and feed arm, then remove the feed tray from the weapon.

2. Take hold of the round next to the one in the receiver and pull it straight out.

3. The round in the receiver will override the cartridge positioner and will pull free. End of sweat.

Of course, if you have trouble removing the feed arm, loosen the feed tray first and then move it back slightly.

Never — no, no! — do like some would-be Lucky Pierre types do. Never turn the barrel back over a live round till the link is disconnected and then push the live round out of the ejection chute. This is a losing game.

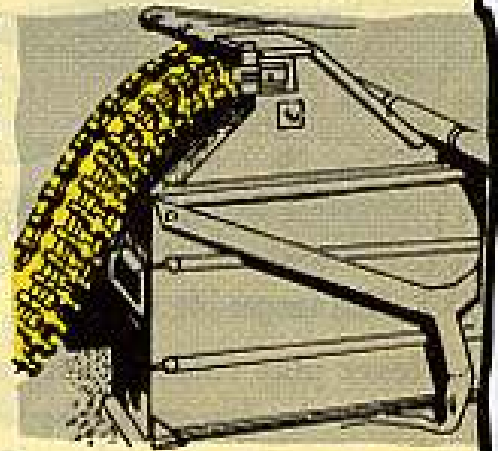
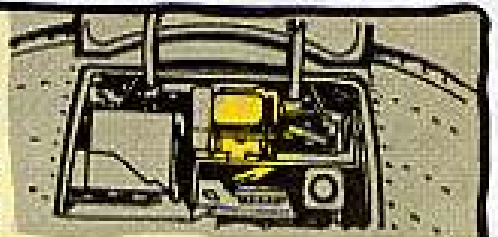
One slight slip of the hand and the round in the weapon will go off!



FEED SYSTEM

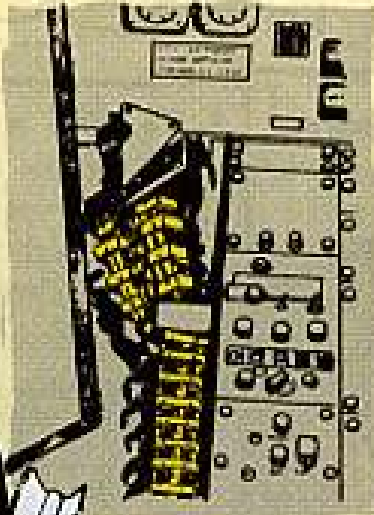
If your launcher acts like the feed motor's laying down on the job, here're a couple of quickie trouble-shooting checks you can make. You'll find 9 out of 10 times that your trouble is kinking in the chute assembly. And the 10th time it's likely to be a broken pin that attaches the spindle shaft to the gears.

Check out the pin first by giving a strong push on a feed sprocket. If it slips, the pin is busted. Get support to fix it for you.



But, if the problem's in the chute assembly, pull the chute from the ammo can toward the front of the Huey and flex it gently close to where it attaches to the feed motor. This'll usually solve it.

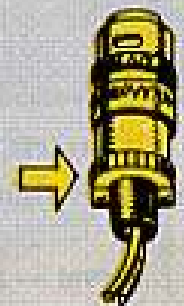
If neither check uncovers the cause, though, you'll just have to follow the trouble-shooting routine in Table 3-5 of your TM 9-1010-207-12 (Jan 65).



CONTROL PANEL

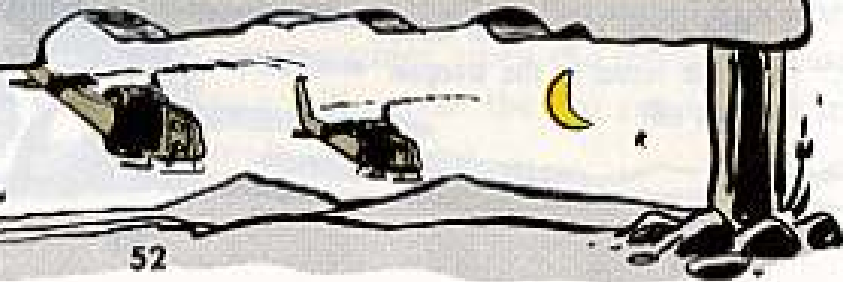
If the weapon fires when the main power switch is turned on, odds are you've got a short circuit in one of the plugs that connect into the control panel. What happens is that the 2 wires (A279A20 and A280A20) entering the smallest connector to the control panel touch each other when the connector is twisted on . . . and pow!

Best fix: Get the connector "potted." Any electrician in your aircraft maintenance outfit can do the job for you.



TIP:

TIP:



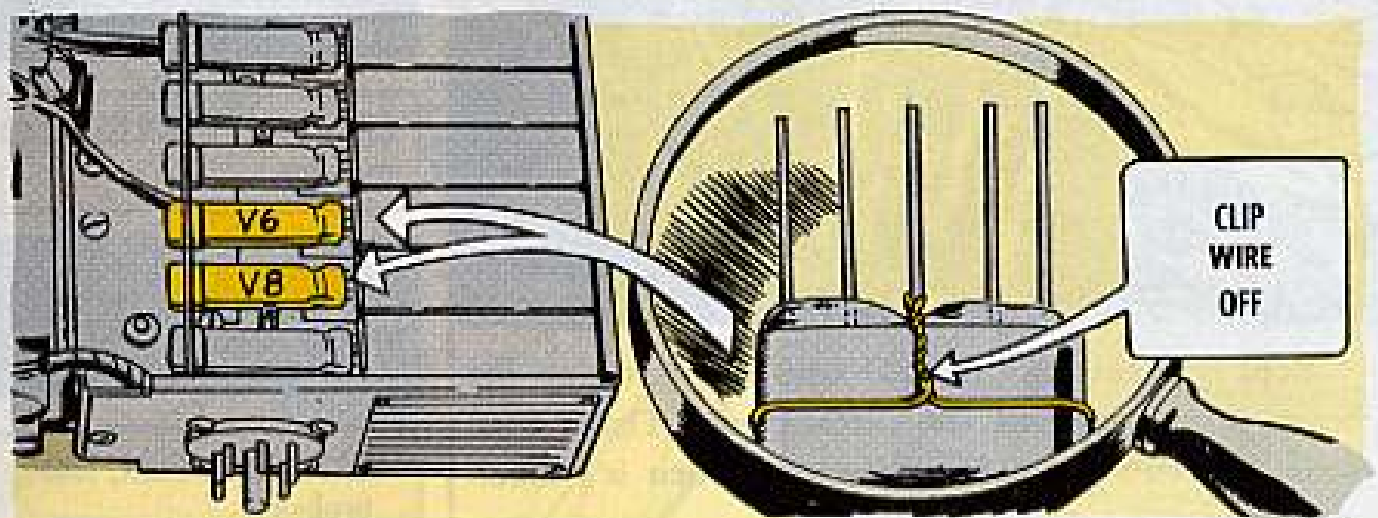
CUT THE CONNECTION



A coupla' tubes in the RT's of your AN/PRC-8 thru -10 plain model radio sets need a little cuttin' up before they can put out for you.

Like, when you're usin' the tube type 5678 as the V6 or the 1AD4 as the V8 in the RT-174, -176, you've gotta cut off the wire lead from Pin 3 of the tubes before you install 'em.

The lead connects directly to Pin 3 and loops around the base of the tubes. Clip the whole business with wire-cutters (naturally, you don't include Pin 3).



There's a caution stamped on the V6-V8 tube shield about cutting the lead, plus another reminder in para 19b(2) of TM 11-5820-292-20.

Naturally, if you forget to cut the connection, the set won't work.

When the 1AD4 tube is used as the V4 or the 5678 tube is used as the V5, V10 or V11, the connection does not have to be cut.

And, it's not necessary to put the clip to the wire when the V6 or V8 are in the "A" model sets, the AN/PRC-8A, -9A or -10A.

YOUR PIPSY-4



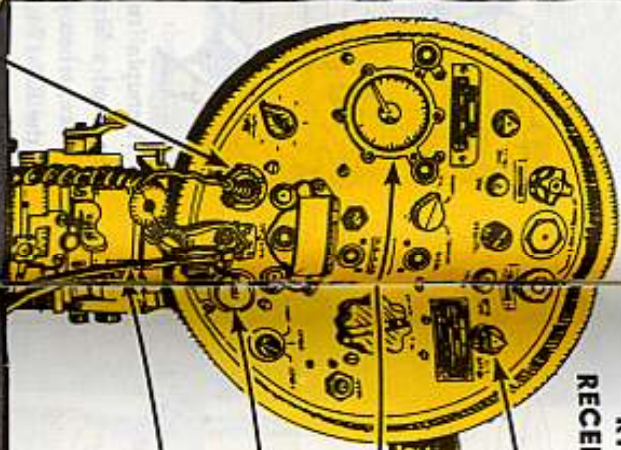
Yep! . . . Just like the gal who keeps you on the beam chasin' her 'til she catches you. That's how your AN/PPS-4(1) radar set works when it's taken care of.

It'll keep tabs on just about anything that moves, from the beak of a bird to a tank making tracks along the trail.

Your Pipsy-4 will stay alert a lot longer when you take time to give it a good eyeing between operations. Here're some faults to watch for, with the more serious in bold type:

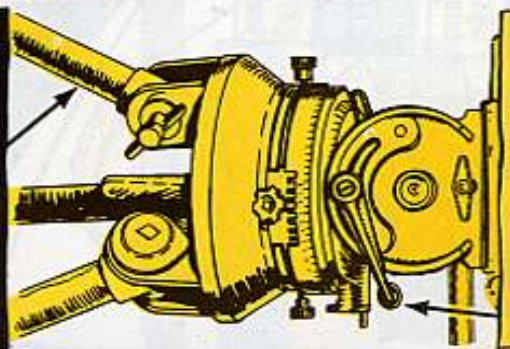
SILENT SENTRY

RT-553 OR RT-752 RECEIVER-TRANSMITTER

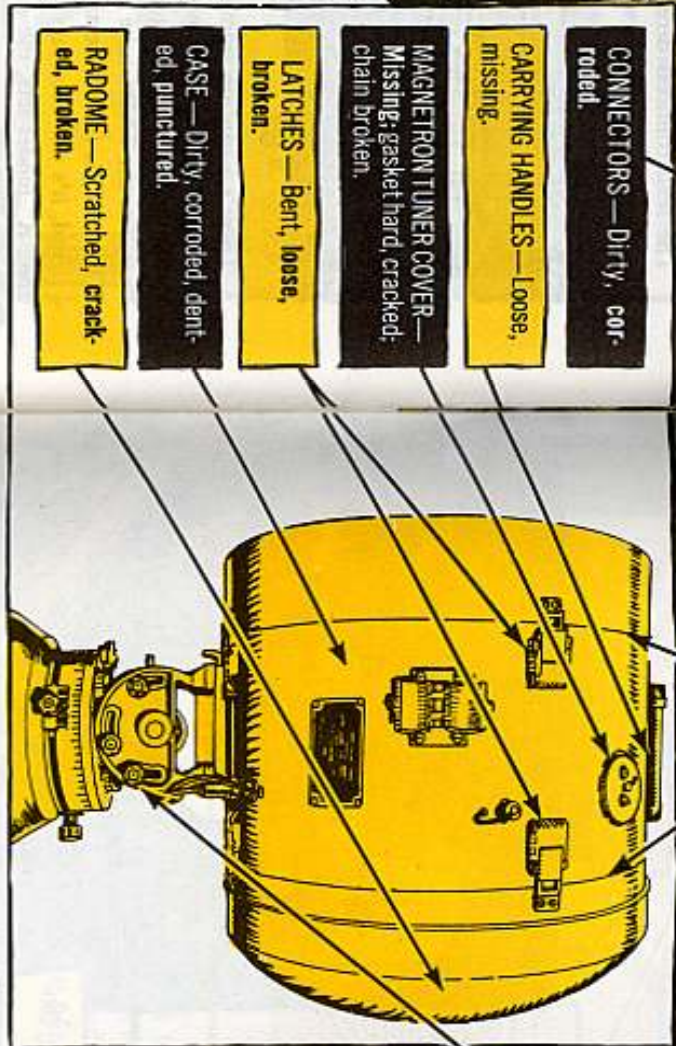


- KNOBS**—Loose, missing.
- LENS**—Cracked, broken, dirty.
- METER FACE COVER**—Cracked, broken, dirty.
- RECEPTACLE COVERS**—Chain broken, missing.
- CABLES**—Frayed, cracked, broken, painted.
- GASKETS**—Hard, cracked, missing.

MT-1946 RT TRIPOD

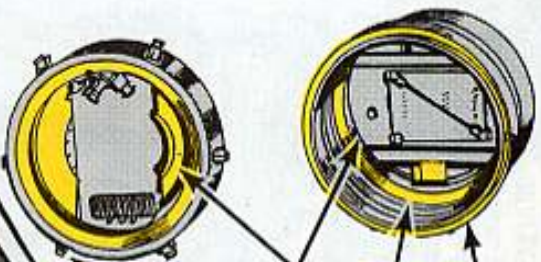


- ELEVATION CONTROL LOCK**—Loose, broken, missing, threads, stripped.
- TRIPOD**—Dirty, corroded, legs bent.
- AZIMUTH AND ELEVATION DE-TENT SCREWS**—Loose, broken, missing, threads stripped.



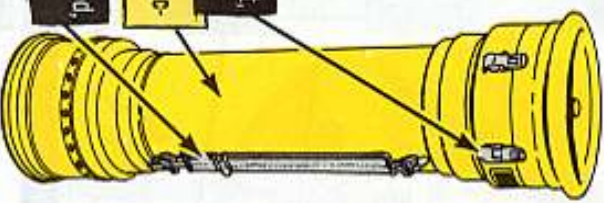
- CONNECTORS**—Dirty, corroded.
- CARRYING HANDLES**—Loose, missing.
- MAGNETRON TUNER COVER**—Missing; gasket hard, cracked; chain broken.
- LATCHES**—Bent, loose, broken.
- CASE**—Dirty, corroded, dented, punctured.
- RADOME**—Scratched, cracked, broken.

**CY-2733 RT
TRANSIT CASE**



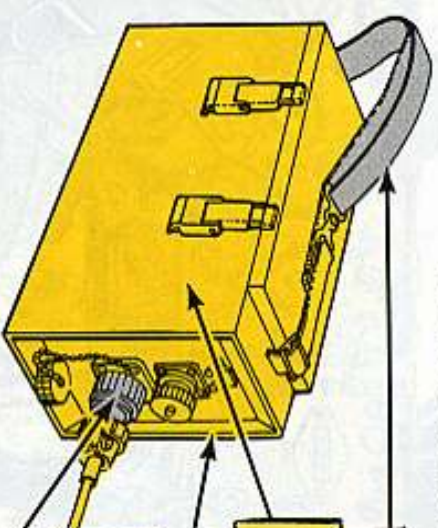
- GASKETS — Cracked, worn, missing.
- CASE — Dented, dirty, punctured.
- RUBBER BUMPERS — Cracked, crumbly, pulling loose from case.
- LATCHES — Loose, bent, broken.

**CY-2734 TRIPOD
TRANSIT CASE**



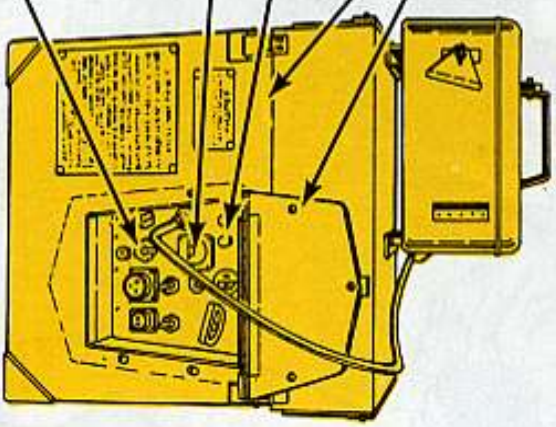
- LATCHES — Loose, bent, broken.
- CASE — Dirty, dented, punctured.
- CARRYING STRAP — Frayed, cut, broken, missing.

BB-422/U BATTERY



- STRAP — Frayed, midweld, broken.
- CASE — Dirty, corroded, dented, punctured.
- GASKET — Hard, cracked, missing.
- CELLS — Dirty, corroded, cracked, leaking.
- CONNECTOR — Dirty, corroded, broken.

**PU-532
GENERATOR SET**



- DOOR COVER — Loose, bent, missing; holder bent, broken.
- CASE — Dirty, dented, corroded.
- PANEL — Dusty, connectors dirty.
- METER FACE — Cracked, broken, dirty.
- AIR FILTER — Dirty, missing.
- AIR VENT — Dirty, clogged.
- SWITCH COVERS — Cracked, missing.

H-183 HEADSET




- EARPHONES — Dirty, broken.
- CABLE — Frayed, cracked, broken, connector dirty.

QUICK!
CHECK
MY
BATTERY!
I THINK I
SAW THAT
TREE
MOVE!!

Pubs you should have for proper Pipey-4 PM are TM 11-5840-211-12 (Apr 60) with changes 2, 4, 7 and 8 and TM 11-5840-211-ESC (Jun 64), TM 11-6140-202-15 (Nov 60) with changes 2, 3 and 4 and TM 11-6140-202-25P (Apr 66) cover the BB-422, SB 11-506 (Sep 64) and TM 5-6115-290-15 (Oct 63) with 1 change are for the PU-532.



HOW'S SHE DOIN', SOLDIER?



CAN'T GET NARY A SQUEAK OUTTA IT, CONNIE!

BE IT EVER SO HUMBLE...

YOU CAN'T LET IT


MUMBLE

TIPS ON YOUR GREASY-3

Bein' a normal, adjusted, happy-go-lucky type, you tend to take some things for granted — like, maybe, payday, the girl friend, your Greasy-3. Right?

Don't get tempted. Familiar as your Greasy-3 (or any of the Standardized series radio sets) might be, it'll down-right flake out on you if you ignore its PM or get careless with it.

58



Even though replacements are on the way, you may have to do a lot of communicating, for a lot of months, before your Angry-3 series stuff buys it. Fact is, because it is aging, your set can do with even more tender lovin' PM than usual.

So start with a peek at a pointer on the RT-66 thru -68 receiver-transmitters:

AUDIO COVERS

When you fasten the metal caps (for the audio connectors to the RT-66, -68 panel, choose the fastening screws carefully. Let the caps dangle to the side of the connectors... and on separate screws. That way they can't bounce against the connector contacts and maybe blow a tube, short the set, or such.



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25¢ MORE

POWER CABLES

Another hot point to remember: Turn off the set's juice before you clean power cables or connectors—for obvious reasons like getting knocked on your tail, burning out connectors or jacks, fusing wire brushes to contacts and other fun consequences.

Fact is, instead of using a wire brush, you might try a type-writer or pencil eraser for the not-too-stubborn cleaning jobs on contacts and pins. Results wouldn't be as painful or damaging if you didn't remember to turn off power.

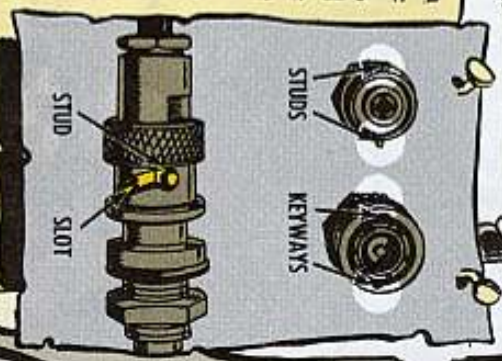
When you disconnect power cables, take the extra few seconds necessary to attach the cables to the insulator bushings on the mount brackets. It pays, with longer cable life and protected connectors. It's smart thinkin' to make sure those bushings are present and in good shape, too, since you can short the POWER-IN connector with a bad or missing bushing.



RF CABLES

The RF cables on the RT's and receivers slide on and off with a minimum pressure. Just line up the connector keyway with the studs on the antenna jack, give it a slight twist with a little forward push, and quit. Overturn the connector and maybe you'll be looking for a new jack—or a repair job for the cable.

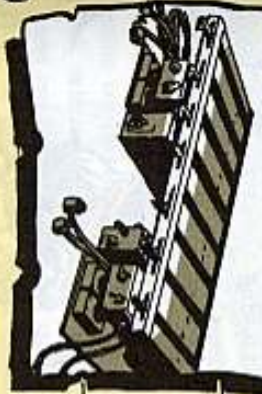
A quick look at the studs will tell you if the connector's in place. They'll be at the top of the slots. On all cables be sure the connector is seated right in the receptacle or jack before you tighten the locking screws. If the connector's off center you can crack the receptacle insulation or damage the connector pins.



MOUNTS

Find a Joe who's wearing a radio component in the back of his head and you'll see a Joe who's on the way to the hospital. Chances are the component got there because he or his buddy (?) forgot to lock the mount clamps when the component was put in, and a bump or fast stop did the rest. A "sorry about that" just wouldn't seem adequate.

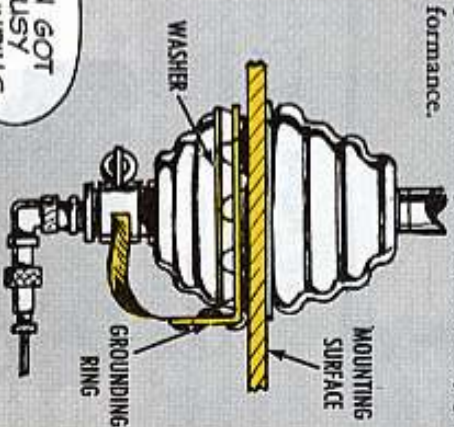
IN
LOCKED
POSITION



MAST BASE

Watch it with the grounding ring of your set considerable... and might next time you're about to reassemble your AB-15 antenna base. Getting the grounding ring and large rubber washer back on right will be a prime factor in the way your set'll put out for you.

Both go on the lower cup insulator, but the rubber washer goes first. The ring goes on top of the washer, which would put the ring against the mounting surface.



UGH!

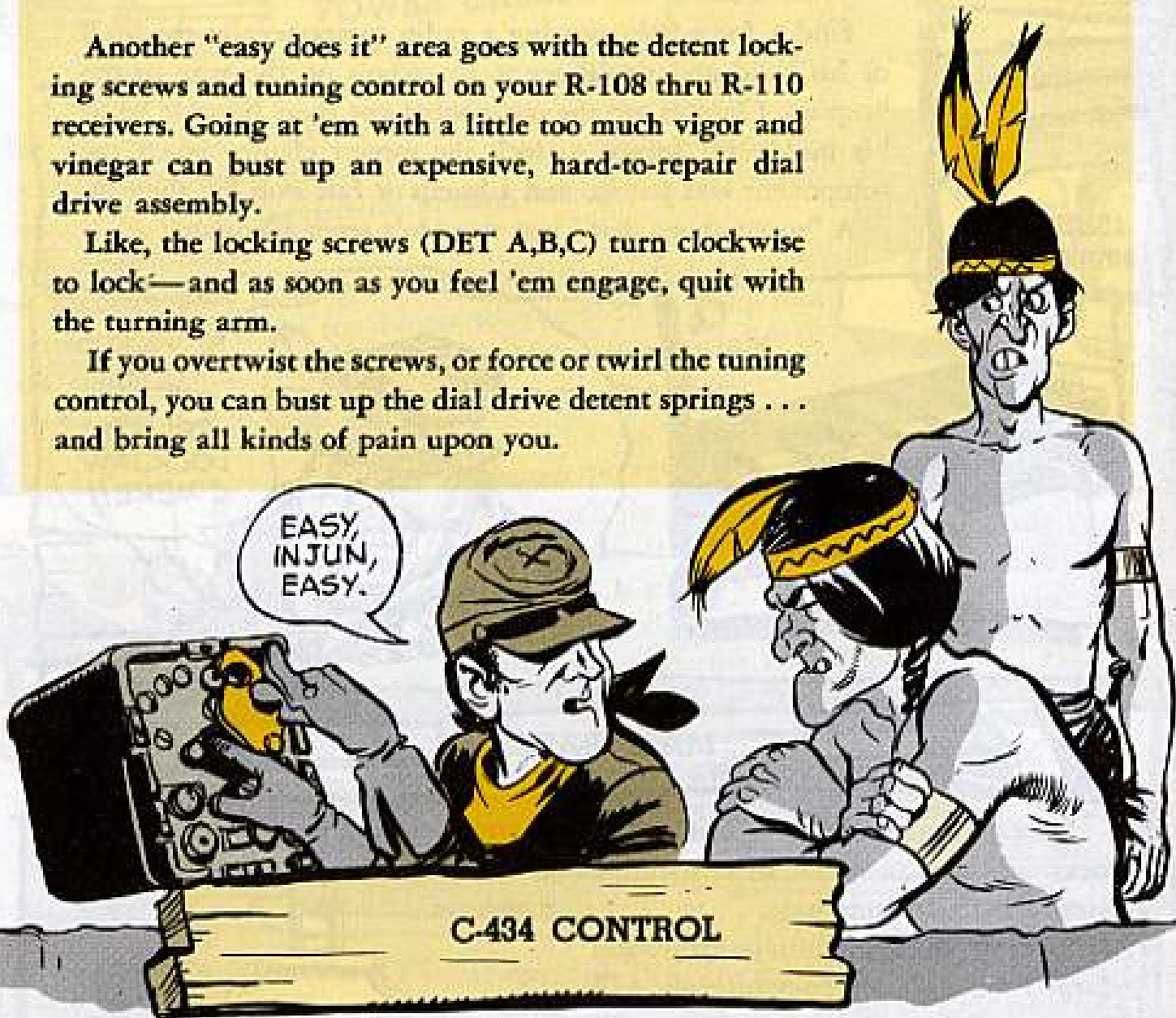
YOU GOT LOUSY GROUNDING RING, BIG DEER!

R-108, R-110

Another "easy does it" area goes with the detent locking screws and tuning control on your R-108 thru R-110 receivers. Going at 'em with a little too much vigor and vinegar can bust up an expensive, hard-to-repair dial drive assembly.

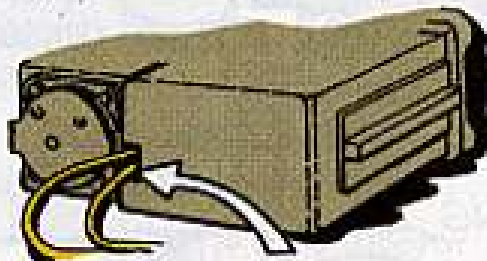
Like, the locking screws (DET A,B,C) turn clockwise to lock—and as soon as you feel 'em engage, quit with the turning arm.

If you overtighten the screws, or force or twirl the tuning control, you can bust up the dial drive detent springs . . . and bring all kinds of pain upon you.



When you're rigging your C-434 local control for operation, play it cool on the position of the audio connector cables (W-1 and W-2).

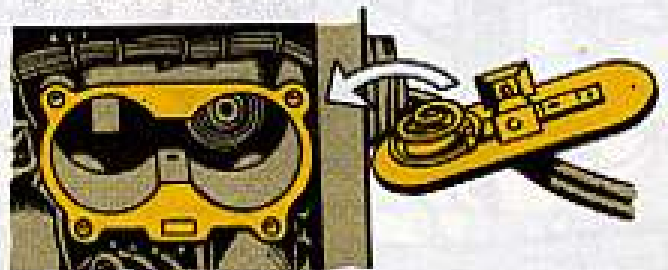
Er, don't close the lid on 'em.



That is, when you close the lid, be sure the cables feed thru the opening in the compartment cover, else you might

chop the cables in two, or bruise and nick 'em enuf to short 'em.

Finally, when you install or remove the batteries from the C-434, be sure you snap the battery container cover flush with the container. That way you keep from cracking it when you slip the case over it.



CHECK THAT BOOM BAM

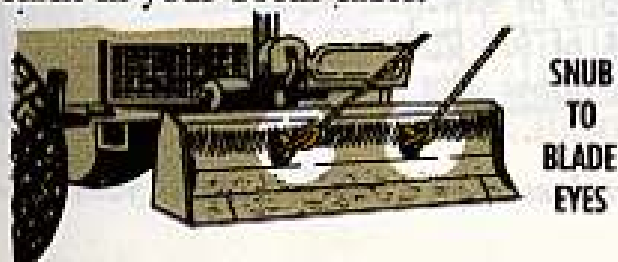


When you move your truck-mounted crane on the road, you don't want to risk whamming somebody or bustin' some equipment with that quarter-ton hunk of hook iron on the boom end.

So for such models as Gar Wood M20A and M20B and American Hoist 2360, snub that hook block close to the boom tip, but don't take a strain on the cable.



For the American Hoist 2380, use your overpack tow chain to snub the hook to each dozer blade eye. You'll want to offset the chain to keep from bending the boom. Then take out the slack in your boom cable.



If you have the rough-terrain 2380 type, get that side-steer safety link in place before you start. That way you won't suddenly swing sidewise and demolish the surroundings.



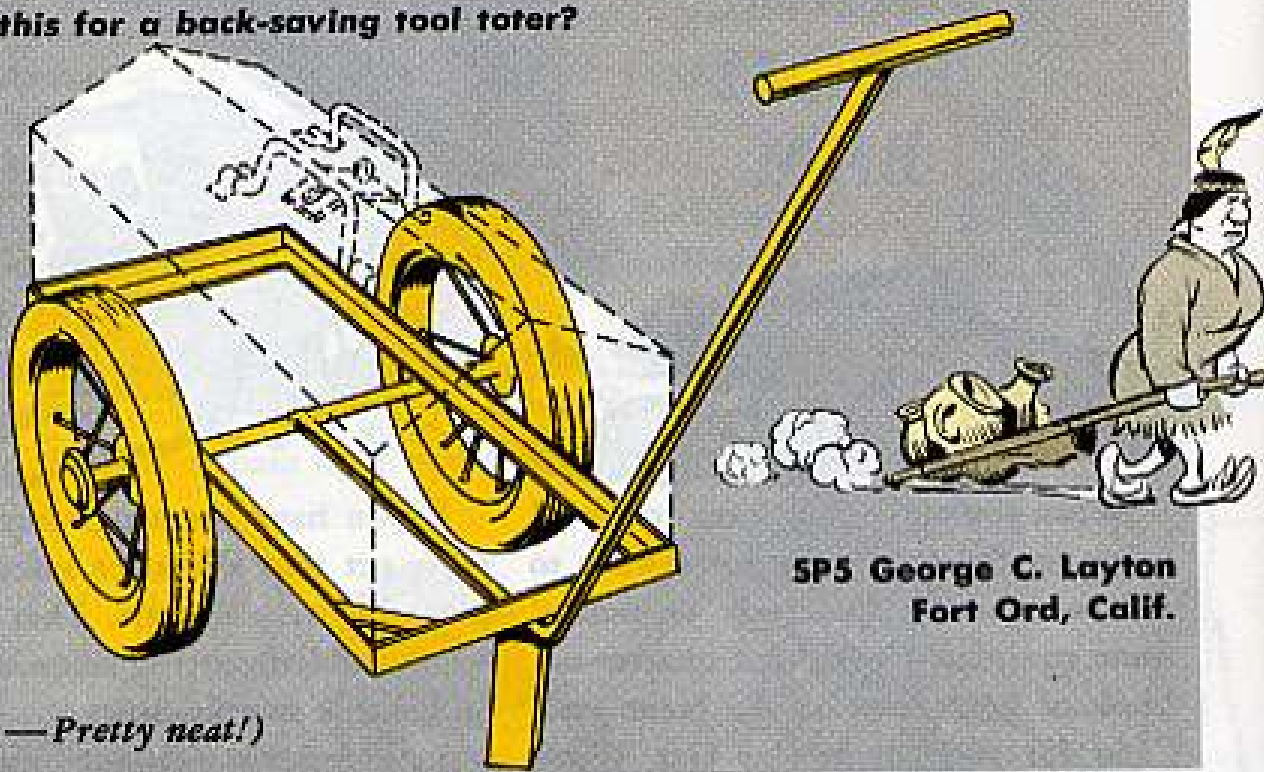
And you'll know not to let the boom down to the bottom of the cradle for traveling, but to leave an 8-in leeway. That keeps you from snapping boom ends and wrinkling front panels in rough going. The only time that boom gets all the way down is when you've parked your jewel to stand a while.

HANDY TOOL TOTER

Dear Editor,

How's this for a back-saving tool toter?

TRICYCLE
TIRES



SP5 George C. Layton
Fort Ord, Calif.

(Ed Note—Pretty neat!)

HOME-MADE PRE-PRINTS

Dear Editor,

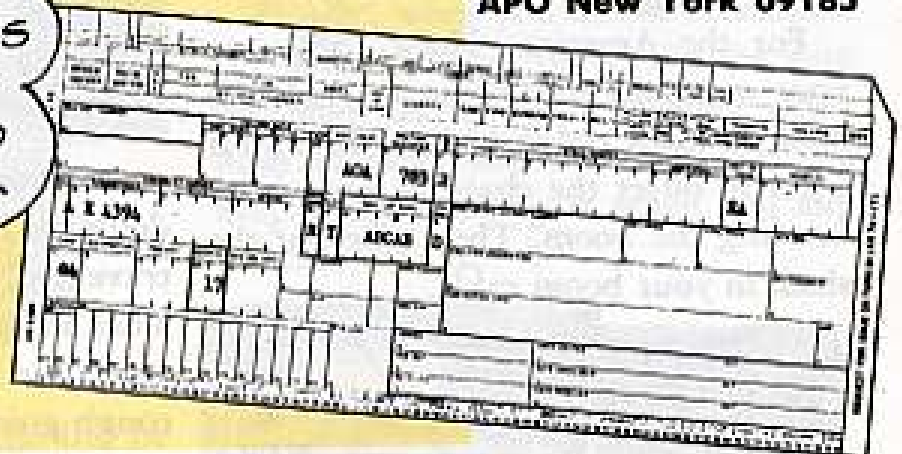
We cut stencils to complete the routine entries needed on our request forms (DA Form 2765). The home-made pre-prints save us loads of typing, speed up form filling, and cut down on possible errors.

We use 2 stencils to pre-print the standard entries on our replacement requests, and one stencil with the routine info that goes on turn-ins.

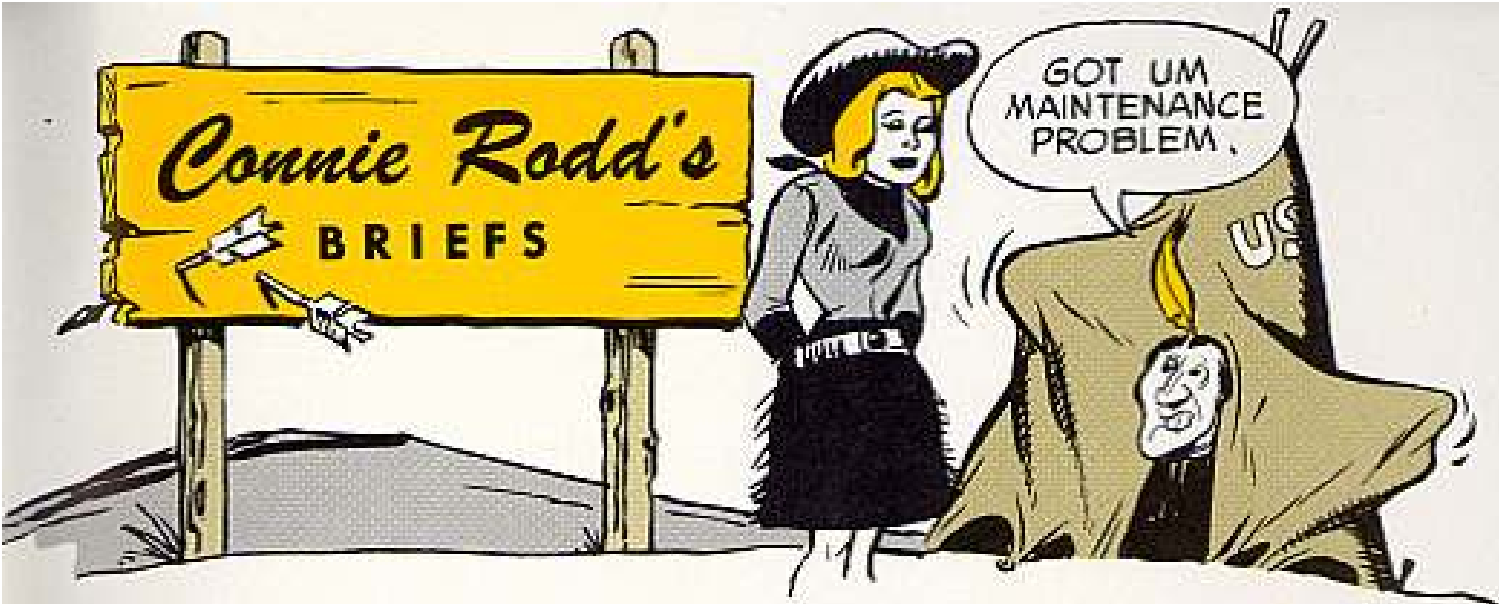
A batch of cards is run off at one time, and then we keep the pre-prints in a separate file so they'll stay clean and handy.

CWO Jay Thorson
HHDet 8th Avn Bn
APO New York 09185

SOUNDS
LIKE
A
GOOD
IDEA.



(ED NOTE—Where your supply support doesn't give you pre-prints, your idea is sure OK.)



One and Only

There's only one model generator set now in the hands of troops that's to be reported on line 740030 in Appendix III of TM 38-750. It's the 1.5 KW Hol-Gar CE-016-AC (Military model SF-1.5-MD), FSN 6115-736-8509. If the DA Form 2408-8 is complete, it'll show the set was purchased under one of these contracts: DA 11-184-AMC-560(T) or DA 23-195-AMC-00174(T). So, just stop sweatin' over that "Mil Std" in the nomenclature on line 740030 for now.

Check That Circular

In case you're concerned with MWO's and Equipment Records, you're using DA Circular 750-17 (31 Oct 66). You might remember that para 5 intended to say AR 750-5 instead of AR 750-2.

New Info on UND

You men in supply may like to know about Change 15 (15 Nov 66) to AR 725-50. It puts out some new scoop on Urgency of Need Designators (UND). Para 2-6 has the word.

Field Radio FM Frolic

Tack this to your "must" reading list: FM 24-18 (Jul 65), Field Radio Techniques. The FM gives you the way up lowdown on good stuff like antennas, power sources, maintenance, operation and what-do-you-want-to-know. Your pubs support people can get it for you.

Form's ID

Your old multi-line item supply forms, DD Form 1150-1 and its continuation sheet, DD Form 1150c (1 Oct 57), were made DA Forms 1 Jul 66. You'll now know them as DA Forms 3161 and 3161-1, respectively.

Drop Cord Bulb FSN's

Replacement light bulbs for your organizational common tool kit's 24-volt drop cord (FSN 6230-268-9436) can be requisitioned with these numbers: FSN 6240-222-0276 for the 12-volt 25-watt lamp and FSN 6240-153-6494 for the 25-volt 25-watt lamp.

Replace the FSN's given on page 9 of your copy of PS161 with these new ones.

**Would You Stake Your Life ^{right now} on
the Condition of Your Equipment?**

THE COLD FACTS ABOUT ICY DRIVING

ADJUST YOUR DRIVING TO THE ROAD

TIRE PRESSURE RIGHT??

KNOW YOUR ROUTE BEFORE YOU START!

LIGHTS - MIRRORS - WINDSHIELD CLEAN?

WIPERS WORK OK?

CHAINS OF PROPER TYPE?

ON HIS WAY

MOMENTUM AND
STEERING ADJUSTED
TO MAINTAIN
WHEEL TRACTION

SKIDDED

