

Issue 156

PS
★

1968 Series

THE
PREVENTIVE
MAINTENANCE
MONTH

CLANK

GRIND



FOR NCPS ...

THE NON COMMISSIONED OFFICER LOGISTICS PROGRAM

The Army has set up NCOLP so that top-notch E-6's, E-7's, E-8's and E-9's can be put into supply and maintenance (logistics) career patterns. It'll help you plan your Army life, you might say.

Men who get in are assigned on an individual by-name basis to specific key logistics jobs in places like depots, supply agencies, major command and installation staffs, maintenance units and logistics instructor staffs at Army schools. Once you're in the program, you're sure to be in a supply or maintenance assignment both stateside and overseas.

Interested?

NCOLP

A PLANNED CAREER FOR YOU

SPECIAL PINPOINT ASSIGNMENT — SURE DUTY IN YOUR FIELD — SPECIAL TRAINING

Then dig out Change 18 (28 Aug. 67) to AFM 600-200 and follow the steps in Pages B-28 thru B-37. You can apply for your CD-441 nameplate only if the things you've got what it takes.

YOUR CAREER



A lot of real live-wire supply and maintenance PRO's are already in NCOLP.



THE ARMY'S BEST-PAID CAREER
FOR YOU... YOUR LOGISTICS CAREER
IN THIS ISSUE!

ARMY'S BEST-PAID CAREER
SPECIAL ASSIGNMENT
SPECIAL TRAINING
SPECIAL DUTY



POWER RATED
SPECIAL ASSIGNMENT
SPECIAL TRAINING
SPECIAL DUTY



ABILITY
SPECIAL ASSIGNMENT
SPECIAL TRAINING
SPECIAL DUTY



PROFESSIONAL CAREER
SPECIAL ASSIGNMENT
SPECIAL TRAINING
SPECIAL DUTY



ARMY AND SUPPLY
SPECIAL ASSIGNMENT
SPECIAL TRAINING
SPECIAL DUTY



THE ARMY'S BEST-PAID CAREER
FOR YOU... YOUR LOGISTICS CAREER
IN THIS ISSUE!

After being selected for assignment, you'll receive a special assignment to the field.

CRUISE MODE (77)

YOUR MUST & SAVINGSHEET, BT...

MOSTLY MUSCLE AND GUTS

If you have an M73B recovery vehicle you've got a lot going for you. It's a combined wrecker and recovery vehicle that can tow almost anything, wrecker or attached. However, it was primarily designed to tow the tracked vehicle M857 M73B series.

Imagine that you go places that wouldn't be feasible for the M857 wrecker track.

Lights are only about 54,000 pounds fully equipped — it can go over bridges that wouldn't hold an M857 VTR.

In fact, you can take to any place you can go with the M107-M130 MP anti-lory tank, which digests because it has the same diesel engine, transmission and basic chassis.

The front length, like tanks can rise more 100 degrees and pick up the heavy, low tank power pack, and it has a separate low which with 200 feet of track diameter can be recovery track.

The spade, which takes only a few seconds to dig in, divides its hauling power. Eight of its 12 road wheels have lockers to hold in to keep the suspension rigid during recovery operations.

You can make your own with a either forward or reverse. It's fast — equipped 17 MPH — and it carries 500 gallons of fuel for a maximum range of 400 miles.

It's low along without attached and full and is equipped with more a official machine gun ... and more ... and so on.

DO YOU
WANT
BUT
YOU DON'T
GET ALL
THESE
ADVANTAGES
FOR
NOTHING.
GET
CREEP OFF
A FEW
PLACES
WHERE YOU
COULD
HAVE
WROUGHT

FRONT OF VEHICLE

ENGINE ON WHEELS — After your M73B needs overnight the oil level may need about 10 inch over the FULL mark. This is normal.

If a dipstick check shows you need engine oil, add engine oil through the filler tube in the engine rocker arm cover, not in the gas tank fill hole. It's easy to get wrong, so be sure. Also, the gas tank dipstick is also over-filled because it's under the filler screen.



ENGINE OIL FILLER

ENGINE OIL DIPSTICK

TRANSMISSION OIL LEVEL—If your XT2 441-14 transmission has had MFD-9



2320-240-0671 applied, the viscosity of oil level gauge) or if its serial number is 1477 or less, you check the oil level like so...

1. Before starting the engine, make sure the transmission oil level is within the operating range stamped on the dipstick.



2. Add a dash of oil needed to get it within operating range.

Keep in mind: Always make allowance for the temperature. Otherwise, if oil is cold it may take so much oil to bring it back to the correct or against only 1/2 inch for the dipstick.

To avoid overfilling, either check the oil level after operation when the oil is still hot, or when there's been enough time for all the cold oil to re-normalize the temperature.

ENGINE OIL LEVEL—The engine cover ribs, fan blades and drive belts protruded with dirt. When the fan stops the transmission may become jammed and too much pressure can blow the filter top off the transmission.

When you check over the vehicle, drain the reservoir and clean out the fan blades. If necessary, also clean the reservoir drain hose by blowing air through it.



DRIVE COVER SCREWS—The slip screws holding down the deck covers get their threads stripped because of over-tightening.



Don't forget
check cover, bearing
screw head, oil level
oil, fan, main filter!



CAUTION

SLIP HOOK—The rear roll-over bars can be kept closed when you remove the cab. Otherwise they'll hit the power steering in the front and maybe hurt somebody.



REAR ROLL-OVER BARS

CHECK THE PULLEY—If your MFD was made by Service McLaughlin Truck and has a serial number of 475 or higher, the cooling fan pulley-assembly that they use is no right strength. You should have the remaining unit changed to 504-115 0-0.



COOLING FAN PULLEY

EXHAUST SYSTEM—Filling the 2nd wheel is a little tricky. Unless you do it right, air gets trapped in the system and you can't fill the radiator completely. The engine will shut overheat.

Here's what to do:



1. The most common failure can be fixed with radiator washers.

2. Add coolant to both radiators, and fill to top. Do not leave any space if you cannot get it out being in job, get more air.

3. Subject to FM 300-694-0011, it's in 2 1/2 hrs. max.—60 min.

4. If you think air is trapped in the cooling system, take off the radiator cap, spin and remove the vent plug from the thermostat housing. Allow coolant flow from the vent hole, put the vent plug back, then refill both radiators and replace the cap.



VENT PLUG

WIPER OIL—Connections to winterize the front pump (external frame) hoses getting broken. Check around for this is people have been carrying on 'em.



WIPER OIL

BRAKE-DRIVE CABLE — The brake-drive cable can slip out of the groove of the equalizing pulley if the cable is too loose or too adjusted right and one of the cable retaining clips is loose.



You can stop this by keeping the cable adjusted and by getting the cable retained on the clip ends and being sure the brake-drive cable can't get out of the pulley groove.

BRAKE DRIVE — When you disconnect the brake lines you'll find there's no master cylinder or "F" groove to help you lock on in the same position. Mark the lines so you can find it easy again. Otherwise, if you get it too tight, the brake will drag because it'll always be partly on. If you get it too loose, there'll be too much brake pedal travel before the brake goes on.



BRAKE EQUALIZER — The 2 men on the brake equalizers change the equalizing adjustment on both brakes, and should not be touched by anybody except you. The way you should adjust it is by lining up the several holes given in each

on the brake apply levers under the 2 transmission and covers.



FLUORINON BRAKE — Four — 10 TM tells you how to adjust the transmission brakes. You need wrench FSM 5428-755-8900 for adjusting the right brake and wrench 88N 5226-711-8913 for the left brake. These tools were added to experimental and are at FSM 8918-000-0479 by Ch 2 (See 66) in the 10-TM—page 5.



88N 5226-711-8913
10-TM 1226-711-8913



FSM 5428-755-8900
10-TM 5428-755-8900



WHEN HOW THE **LEVEL WIND** WORKS.

The level wind increases the cable automatically as the rear wheel cable is always at the right angle for working on winding up.

1. Make sure the level wind cable is off outside speed on the cable.



2. Take out the disk pin and its sleeve and adjust the bar pin and both side bar pins.



3. Remove the bracket under the frame with the frame pin.



4. Attach the cable end to the vehicle you want to check and operate slowly for bar to higher through.



4. Put the level wind on the cable and get the pin and sleeve back.



5. Turn the level wind until 88 and wind in the cable. The level wind will give you a right and even wind, instead you have some trouble on the cable (See page 6 of 10-TM page — 10-TM).



Setup Note: This vehicle can move accidentally or even level on the cable during the pull and this could be dangerous for anybody standing alongside. So don't stand there.

PREVENT WIRE BREAKS — If the boom-cable is not tensioned properly on the drum it can get damaged when you use it for heavy pulling. You need a cable tensioner of 7,000 pounds to wrap the cable on the drum the way it should go. To get this tension you:



2 **Put an obstacle** in front of the end of a big tree or other stationary object, wrap your part too. If you can't find anything else, use a chain-link fence.



3 **Stretch the cable** about seven feet into the cable drum in the boom cable cable. It should not be stretched or put the cable in a wind straight.



INSPECT JOINT JOINTS — Check your wire-rope joints for broken linkages and loose wires, and make sure the wire is not frayed wrong like in drawings page 149 of your '88 TM. The only joints that should be joined with ball-wire are those produced in the ball-wire manufacture over the journal flange.



4 **USE THE PROPER CABLE SIZE**, put the lower wire in the top end of the cable then slip the transmission into forward with the engine full throttle. The cable will be dragged backward only until torque forward and the lower cable will be wound over 1,000 pounds of tension.



TOO MUCH — You need a lot of tension to wind up the new cable, so you do it and it exactly the same as above and if the cable except you put the transmission into forward (instead of into Range 4, Range 1 (Range 2 if your truck slip)) will push the vehicle ahead with a force that will keep the new cable under proper tension when it is being wound up on the vehicle it pulled backward.



CONSERVATIVE WIND — In spite of everything you can do you might get more fuel but that's make one of the important work. If you improve cable, likely all the important on that back will stick. Get your support to replace the fuel injector and you'll be back to fuel use.



NO FUEL — Some old driving/capturing through mud holes, etc.) will let a lot of mud and water get into the fuel tank and, in time, clog the carburetor. To hold down on the air filter stuff? There's no screen plate the carburetor or drain for the fuel tank so if you get a full of mud you've got to clean it out the hard way, by hand.



FUEL TANK — Clean, water-free fuel is worth all the effort it takes to keep it that way. Be sure the water-tight fuel tank cap on your top deck is really water-tight. Check both primary and secondary fuel filters daily and bleed about a cup full from each — same if you get a lot of water mixed with the fuel. Often if you have to drain the secondary filter, do it with the engine running.



THE DRIVER'S COMPARTMENT



IGNITION KEY — Your '88 TM, says to idle the engine at 1000-1200 RPM for 3 minutes before shutting it off, but the latest word is that 1000-1200 RPM for 4-5 minutes is better.

ENGINE OIL — Running your vehicle cross-country with the fuel-injector solenoid open is a sure way to get your wheels. So, when you shut off the engine, make sure you take care of it.



WHEEL OIL — Check the vehicle again for leaks before you back over the wheels. Reason: If the wheel hubs are leaking, you better stop, stop! or you're supporting the load. After the driver sees the hubcaps, he should make sure the hubcaps are tight. The lights will not come on until all hubcap splinters are broken. Put the hubcaps on only after the spade is well oiled.

When you want to move off the spade, first run off your hubcap control and make sure the light goes off before you move off the spade.



1000-1200 RPM — The rock number for the high-beam and motor-vehicle indicator lights is not listed in the parts manual for the 1978. However, you can order them anyway at least 100-4340-155-1555 (P/N 0000-1555-1555). Note that the part number ends in 155, the three numbers that you find stamped on the bulb itself.

HERE'S AN EASY WAY TO CHECK THE PRIMARY FUEL FILTER!

1. After you remove the engine compartment cover, you will find a standing panel in the driver's compartment and disconnect the fuel intake and water lines at the spin-down filter.



2. Rotate the fuel inlet elbow on the primary filter to determine direction to flow. Stop when the spin-down filter is in the fuel inlet line.

3. With the right-hand fuel inlet on the primary filter, disconnect the water line, disconnect the fuel intake and water lines at the spin-down filter. Disconnect the fuel intake and water lines at the spin-down filter.



4. Take the fuel inlet through the engine compartment and disconnect the fuel intake and water lines at the spin-down filter.

5. Supply the fuel from the tank to a container and if the amount is full of dirt, replace it.

6. After replacing the filter, fill the tank with clean fuel, install it, tighten the filter and connect the fuel intake and water lines.

LEFT SIDE

IMPACT WRENCH — The impact wrench, P/N 3158-708-1294 is also found on the M55 VTR. You should have a copy of the TM for the wrench, TM 9-1130-208-15P (Rev. 41) but you can't see Table III, the fire regulator settings, because it applies only to the M55.



AB WRENCH — The 3 air lines past the abler has you install 'em different. On both of them the lower-like handles go inboard. On the one you put in the front, the mating garden goes to the rear and on the one you put the mating garden goes to the front.

Fig 44 in para Ch 2 on -10 TM and fig 208 in para Ch 1 -20 TM show correct pin float installation.)



ON THE
LEFT ... THE M55 ...
THE FUEL REGULATOR
SETTINGS ... THE REGULATOR
THE TORQUE!

WRENCH WORK —
Check the mounting
nuts daily. They have a
weather-tight seal of working
nuts.



USE HOARDING — As you know, the holes on the bottom of your riser may not match up with the wire accounting holes in the hoarder spacers. Here's what to do.

1. Take the filter pan out of the aluminum compartment and weld that gap hole to the hoarder spacer that won't line up with the mounting-hole tab/riser.

HOARD
SPACER
AND UP



2. Drill a new hole in (hole) as needed. Before putting the filter pan back, make absolutely sure peripheral metal chips are well gone out of the compartment.



KEEP ON THE PUMP — Pipe plug PSM 4730-044-01 P2 has to be removed quarterly to check the anti-rust wheel-hub oil level the way it was in Man 17 on LO 11-2430-009-12 (the 10). This is a common seal plug and needs careful handling. Use a 5/16" hex socket so you don't round off its one .675.

REMOVE THE
FUEL QUANTITY



REMOVE QUANTITY
COVER

THE CRANE CAB

COME
ON IN!



HYDRAULIC FILTER

There's a new filter element for the hydraulic system—Filter Element, fluid pressure, nonreturnable, PSM 44340-041-0148 (P/M 90086-00-34807-12). It's under the floor of the cab.

Replace this filter element Quarterly or when the red button on the filter assembly body sticks out about a quarter of an inch. The old filter element, PSM 44340-041-0148 (P/M 90086-00-34807-12C) has been discontinued.



REMOVE
RED
BUTTON
ELEMENT



SEE HINT

HYDRAULIC HOSE — The metal hose from the main reservoir to the hydraulic pump slip-ring assembly sometimes leaks. If this happens and you can't get a replacement part, use a rubber hose until you can.

DANGER!

BOOM HOLE — The boom pedal is curved and changes shape whenever you have the hydraulic system ON. If you step on the pedal, the cab will rotate right now. If the boom hole is in the curved position, this could break the remaining leg or hurt the driver. Always step on the pedal unless you do it on purpose. Somebody could get hurt.



BOOM CRIBBER CONTROL — With the hydraulic system ON, the boom cylinder control will move the boom if the control is pushed out of the rest position, either on purpose or by accident. So be sure you don't move the control, especially when the boom is in rest position.



SELECTOR POSITION — The traveling brake-pressure selector has to have the knob IN for normal power operation of the hydraulic system. If the knob is OUT during power operation, your traveling brake will go on and off rapidly with a chattering sound. To stop this you have to change the knob setting to IN.



If you have to operate the reservoir manually, changed ON on the knob (N) under the flap is the upper's compartment, and then work the hand pump to the right of the upper's seat. This will let off the traveling brake and the cab can then be transferred into position by pushing on the boom.

HOIST WINDS— The hoist winds straps whereas slacks a H8 and a L8 operating position has it's less or use only the L8, both for paying out the cable and for rewinching it in. The H8 gives a speed of 500 feet per minute — too fast for most uses.



LOWERING THE BOOM — If you get a hydraulic hoist-up you can move the boom manually by first taking off the control cover under the operator's seat and then turning the valve to manual operation.



HOIST OPERATION — If you have to hoist up a structure as tight as you might with there was a spotlight on the rear of the job. However, by manipulating the boom, you transfer it through the steel cone light on the ceiling.



SELF-RECOVERY — When you have to raise the boom to keep the cable off the deck plate during self-recovery, be careful not to raise the boom too high or the winds drum will rub against the lift cylinders. Check it out and see how high you can go before you start to rub.



HEY—
THEY
DON'T
LOOK
LIKE
THE
ACTUAL
CLUTCH!



NO DANGER!

MAGNETIC CLUTCH — It won't look like the one on page 187 of your '80 TM but don't worry about it. That was an experimental model that never got into production. Yours is on page 140 and 184 of the TM.

SLIP-RING BEARING — Replace the 2 hub bearings with square-head plugs if this has not already been done. This'll discourage anybody from trying to take 'em out on the old (Max 60) LO called for. The slip ring bearings should be lightly lubed every 20 miles.

TOW BEARS — If you have to tow max, put the towed vehicle in 2nd gear before you start to tow and leave it there while you tow the vehicle forward. If the engine does not start when you reach a speed of 4-8 MPH, check for something else wrong.



Never try to tow-start an M107 with an M176, because when the M107 starts it may lunge forward and run its gas tube into the rear of the M176.

TOWING DISABLED VEHICLE — You can tow a disabled vehicle for a short distance (less than a quarter mile) like so . . .

1. Put towed vehicle shaft in 4 forward position.

2. Do not go over 10 MPH ahead or 5 MPH behind.

When turning with a towed vehicle, make wide turns to keep from dragging the tow bar or bumping the vehicles together.

IF YOU TOW MORE THAN 1/4 MILE

FIRST
DISCRETION
 1964
 1970

1. Take off the drive belt and rollers.
 2. Disconnect both front drive shafts.
 3. Put the upper drive roller (UWR) in 107 and put the rest on the transmission to keep the upper frame engaged and keep the upper frame.
-

(NOTE) When the front drives are disconnected, you can't brake or steer the towed vehicle, so you need to use a tow bar, not tow cables.

The M107 must be towed backward when you are towing it with an M176, because a standard tow bar is not long enough to let the gas tube of the M107 clear the back of the M176 when the gas is in the towed position.

When you need warning lights on a towed or disabled vehicle, use portable flasher light, P/N 2122-706-2017.

LOCKING CYLINDERS — The allen plugs on the locking rings of the 8 lockout cylinders sometimes get loose. Check to make sure they are torqued to 40 lbs-ft. If they are struck over that they're not right.



EMERGENCY BRAKE — Here's an aid to help you employ your grade in the air-hand ground.

1. Lower your boom-which cable to the ground about 1 foot ahead of where you want to get the grade.



2. Run down the vehicle about while getting out the boom-which cable until you are out of the roller from the rear of the vehicle.



3. Lower grade to ground.



4. Attach the boom-which cable to either one of the cable eyes.



5. While backing up the vehicle with the suspension in the selected position and the control valve set for grade employment, get the boom-which in low gear and hold it on the cable until the grade lower cable with the weight of the vehicle on it.

6. Release the tension on the boom-which cable, disconnect it from the grade and roll it back in.

7. After the grade is employed and which cable is attached to, lock out suspension system.

SEAL PLUGS — Every day take out the hull drain plugs at the rear underside of the hull, just behind of the trailing (rear wheel) axle. After the water, hydraulic oil leakage (and whatever) has drained out, replace the plugs.

These plugs are at the lowest part of the hull and when you open 'em you get rid of the moisture that otherwise would seep through the trailing (rear wheel) axle and damage the bearings in the hull.

The plugs are easy for the operator to get to from the outside of the vehicle and easy to clean. Do it daily.

GRADE TIE — The 10-in grade gun may not fit in its headrest. If you have this trouble it's OK to bend or reposition the headrest as they fit.



100 000
0.000 000
0000. - 0000



100 000

FOR 5-TON TRUCKS



Have you had to do what special tools you use on your 5-ton trucks? Here's a breakdown of the A and B Tool Kits that should serve your needs. You'll see them in the service change or written to TOL 9-2120-211-20P.

TOOL KIT A

W29 Series Cummins,
 Tol 9-2120-211-20A,
 needs all

Wrench,
 shell/beverage,
 Tol 9-2120-211-20A

Wrench,
 air compressor
 belt adjuster,
 Tol 9-2120-211-20A

Wrench,
 hex cylinder-head bolt
 Tol 9-2120-211-20A



W281 Series Diesel,
 Tol 9-2120-211-20B,
 needs all

Wrench,
 shell bearing set,
 Tol 9-2120-211-20B



W281 Series Diesel,
 Tol 9-2120-211-20C,
 needs all

Adjuster,
 shell driver adjuster,
 Tol 9-2120-211-20C

Wrench,
 adjusting air
 compressor pulley,
 Tol 9-2120-211-20C

Wrench,
 shell bearing set,
 Tol 9-2120-211-20C



TOOL KIT B

WSP Engine Encoder
 P/N 4810-001-0001,
 complete kit

Kit, starting oil
 pressure bypass starting,
 P/N 4810-001-0001 (in box)



Wrench,
 air compressor
 belt adjusting,
 P/N 1000-000-0000

Wrench,
 wheel bearing nut,
 P/N 1000-000-0000



Adapter, starting wheel
 (see w/1000-000-0000 kit),
 P/N 1000-000-0000



Wrench, pulley,
 engine oil filter,
 replacement bolt,
 P/N 1000-000-0000



Wrench, low, cylinder head bolt,
 P/N 1000-000-0000



WSP 10 Series Encoder,
 P/N 4810-001-0001,
 complete kit

Adapter, starting wheel
 (see w/1000-000-0000 kit),
 P/N 1000-000-0000



Kit, starting oil
 pressure bypass starting,
 P/N 4810-001-0001 (in box)



Wrench,
 wheel bearing nut,
 P/N 1000-000-0000



WSP 10 Series
 Multitool,
 P/N 4810-001-0001,
 complete kit

Adapter,
 shaft encoder wheel,
 P/N 4810-001-0001



Wrench, adjusting
 air compressor pulley,
 P/N 1000-000-0000



Adapter, starting wheel
 (see w/1000-000-0000
 kit),
 P/N 1000-000-0000



Kit, starting oil
 pressure bypass starting,
 P/N 4810-001-0001 (in box)



Wrench,
 wheel bearing nut,
 P/N 1000-000-0000



HEY, MAN—
CHECK TO MAKE
ASSEMBLY FOR
ME, WILL YOU?

847-595 11-304 CONTAINER ...

FSN'S FOR RACKS



Lookin' for FSN's that'll back these racks? Assembly for any one of your M17 or other 12-ton trailers? Find the numbers and use them FSN's for racks:

Body Assembly	M17	HEAVY, HEAVY C WEIGHTS
Steel bed	26 00 000 000	261 001 0014
Steel, right-side body	26 00 000 000	261 000 0016
Steel, steel, left side body	26 00 000 000	261 000 0018
Center, steel, right side body	26 00 000 000	261 000 0019
Steel, steel, left side body	26 00 000 000	261 000 0020
Steel, left side body	26 00 000 000	261 000 0022
Steel, left side body	26 00 000 000	261 001 0024
Steel, steel, left side body	26 00 000 000	261 000 0026
Center, steel, left side body	26 00 000 000	261 000 0028
Steel, steel, left side body	26 00 000 000	261 001 0027
Steel, left side body	26 00 000 000	261 000 0033
Steel bed, left side body	26 00 000 000	261 001 0034
Steel bed, right side body	26 00 000 000	261 001 0037

ONE OF
THE M17'S
WHEELS CARRY
THE SAME
FSN FOR
A OTHER SIDE—
NOT. THAT'S
WHY YOU NEED
THE FOUR
ASSEMBLY PARTS.



You won't find this number in any supply pub you, but the US Army Truck Administration Command announced them as great numbers. When ordering use AN Z as your SIC.

BODY & FENDER REPAIR

We use to look for an FM on the body and fender repair and the 500 500-114-0013. The 500 500-114-0013 was replaced by 500 500-114-0013 which was replaced by 500 500-114-0013 (the 500). The only place you'll find this list found in the 500 500-114-0013, A or one of its changes.

Q'S FOR CONTAINER ...

LANDING LEG LUBE

Down... down... down... all the way down.

Yep, you gotta crank these landing legs all the way down when your M17 or other Q750-series 12-ton container gets its regular dose of lube.



Like you use to look for 500-114-0013 (the 500) and the lube clean in the 500-114-0013 (the 500), the landing gear support legs are lubed with Q8 50. But you have to have the legs extended all the way down so the oil will run into the reservoir in the bottom section of leg.

Each leg gets 1 pint of Q8 50. Give the oil about 15 minutes to get down into the reservoir before you crank the legs back up.

This junk will be showing up in a TM change or update.



NO Q'S FOR WHEELS

That's right—regularly preventive maintenance services for tactical wheeled vehicles. This was the word in DA Cir 750-10 (Apr 63). If your truck or trailer TM calls for a Q service, you still pull the same service but as a maintenance Q service instead of a quantity. Until your TM picks it up, the word in DA Cir 750-10 (Apr 63) is still good. Make a note for yourself.

WHAT
ABOUT
THE
LIFT?

WHAT A REBOLTING SITUATION!

ALL
COMING
BACK...
B.C. COMPANY
HAS BEEN
THRU HERE
AGAIN!



What you don't know can hurt you — like loose U-bolts on vehicle springs. When U-bolt nuts get the right torque, they shouldn't loosen up — but sometimes they do. You drivers should check 'em out about once a week. Report any loose nuts you find on your 2004 inspection form.

Your mechanic will follow up by putting the right torque on 'em. You might be surprised at how much torque these Spring U-bolt nuts need to keep 'em snug.



nut	nut and up
5/16-inch 14 hex nut	100 in- lb (5-6)
5/8-inch 20 hex nut	190 in- lb (10-6)

nut	nut	nut
5/8-inch 14 hex nut	200 in- lb (9-6)	250 in- lb (10-6)
5/16-inch 14 hex nut	200 in- lb (9-6)	

* Use torque on a regular job, but don't check off check 'em out, and, if loose, report 'em on a 2004.

MIJAI METAL CHIPS

WHAT IS
AN MJC
PART
PART?



If you find metal chips or shavings in the engine oil of your MIJAI carrier, turn the engine vehicle in to support right away. Poor oil distribution in the engine caused by the metal would affect working surfaces. Even if you could get all the metal out, continued operation could damage the engine with more.

M113 CARRIER GUN MOUNT



Page 206 of Ch 3 to TM 5-1508-104-10P1's shows both the old and the new mount in one picture.

REMOVE
GUN
MOUNT



WHAT TO DO?

The mount support, Item 5 and 11 on page 206, P/N 10001150, is now available for lease under ESN 1500-010-0000.

To complete the assembly you'll need several other items listed on page 206.

The items with ESN's are ordered in the usual way. The 2 without ESN's, Item 5, Cover, P/N 10001148 and Item 11, Pin, P/N 10000-00115-100 are ordered with an exception data registration the way it says in AR 725-50, para 1-20.1, in Ch 11 000 000.

M113 RAMP DOPE

Once the ramp on your M113 carrier goes bent so it no longer fits right, get a new ramp. Turn the old one over to your support on the slim chance that they can fix it. If you try to do the job, it'll be a waste of a good mechanic's time. The only way to fix a bent ramp is to keep it from getting bent in the first place. You do this by lowering the ramp slowly to the ground.



IT'S THE COTTONPICKIN' HEAT!

 MAN, IT'S HOT!


Your M48A3 tank will lose its cool if it gets overboard.

Too many M48A3 engines and transmissions are working over because there's not enough air circulating around them to keep the fires.

Here's a 4 things you can do to improve the air circulation:

1. Keep the engine gills from clogging with mud, vegetation leaves and other things.
2. Make sure the air exhaust fans are not blocked that is clogged with help and mud. You can use your hands to pry the fan open.
3. If your air intake screens are clogged with mud they won't let the hot air in, keep them clean.
4. Roll, bump, wiggle, and scum out just in the engine compartment or down on the air circulation, or down on the wall whenever the grease pump is pulled or any other time you get a chance.



Clogged filters in air cleaners and oil and fuel lines can make the engine and transmission run hotter than they should.

Drag out your trusty TM 9-2118-10-10 (the 654 with its J-changes, and replace those filters like a champ.

Take care of these things and you'll keep your cool and so will your M48A3 tank.

FEELING EJECTED?



The only way to make it is to close your eyes. That's right . . . the way is the way you should load the M16. About machine guns for your M16-series rifle is in plain sight on page 2-112 and 2-113, TM 9-2150-215-10 (Feb 85). And that means no changes in the way to do it.



BOLT FORWARD



BOLT BACK

Experience . . . the TM tells you to make sure the bolt assembly's forward — in factory — before you load the ammo. That way the feed lever inside the cover will fit into the groove of the feed cam on the feed and ejection assembly when you close the cover.

If the bolt's on the rear and then you do everything you're supposed to do, you're asking for trouble 'cause the feed lever and cam don't mesh. That means less or chipped ejection prongs.

SOFT MUSIC PLEASE!

Blang-ang bang rattle-rattle on 101-MM guns is M16-series rifles can be a bunch of bother in close-quarter fights.



Wedgeing the muzzle cam with a block of wood helps dodge such disaster, but only use it when taking the cam off — not in putting it back. If it won't go back, find out why — or substituting a business for cover it.

Besides, trouble likely won't come in the first place if you've kept cozy with EO 9-2150-215-13 (13 Aug 85) and made sure the threads all got the right green coat.

M60A1 TANK BRAKE TIP



PARKING
BRAKE
LOCKED!

When you install slave cylinders in your M60A1 tank, do it the easy way.

Before removing the slave cylinders, make sure the parking brakes are in the locked position. With the parking brake locked, you're not so likely to damage the frame and spring while the cylinder housing is being replaced.

The rest of the word is spelled out in Fig. 2-241 in TM 9-1546-115-20 (2nd Ed., Ch. 1, Apr. 66).

AND
TANK
TYPE

M36 PERISCOPE POOP



YOU REMOVE THE
BODY ASSEMBLY FROM
THE HEAD ... ONLY
AFTER



... First go
AFTER
YOU'VE
DISCONNECTED
THOSE TWO
CABLES
AT THE BODY
ASSEMBLY

OTHERWISE,
you might pull
the ends of the
cables loose
because of the
weight of the
body assembly.

M110 HOWITZER

LUBE NOTE

If you put too much oil in the magazine clutch bearing of your M110 howitzer you may blow the seal.

If you take 7 1/8 pints of lube to fill the clutch bearing to the right level—which is to the level plug at the end of the bearing.

This will leave more room for the oil to expand and you are less likely to blow the seal in the rear of the bearing.



HAPPENING



Looking for the FSM to order a spare storage box for your M110 CP howitzer? Stop looking. There's no FSM but you can get the box anyway. The recommendation is spare storage box, FSM 10004854. Use the acquisition request per para 5-20.1 of AR 734-66 and include in writing why you need the part.

LET THERE BE LIGHT, CAP

Clean up, you M110 howitzer guys. You know those pesky plastic caps on the M110 and M115 instrument lights—the caps that keep blowing when you do a lot of firing, and you have to throw the whole light away! Well, now there it here, replace it with another cap... Cap, Instrument Light, M110 or M115... ESN 1200-811-8943. Call your howitzer's TM 9-2011-21-02 or anybody.



FRIBS

IS THERE ANY RELATIONSHIP BETWEEN THE NAME OF THE ITEM AND THE SIZE OF ITS TUB?



FRIBS is a series of 40 training aids for use in the classroom. Each aid is a 12" x 18" card with a 6" x 6" hole punched in the top left corner. The aids are designed to be used in a variety of ways, including as a reference tool, a quiz, or a discussion aid.

FRIBS Training

FRIBS Training is a series of 40 training aids for use in the classroom. Each aid is a 12" x 18" card with a 6" x 6" hole punched in the top left corner. The aids are designed to be used in a variety of ways, including as a reference tool, a quiz, or a discussion aid.

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NEW TRAINING AIDS

New Training Aids have just hit your local audio-visual center. They're an enhancement and supply and could prove real handy. Here they are:

ITEM NO.	ITEM TITLE	ITEM NO.	ITEM TITLE
FR-10-1	1 1/2 sided	FR-20-1	1 1/2 sided
FR-10-2	1 1/2 sided	FR-20-2	1 1/2 sided
FR-10-3	1 1/2 sided	FR-20-3	1 1/2 sided
FR-10-4	1 1/2 sided	FR-20-4	1 1/2 sided
FR-10-5	1 1/2 sided	FR-20-5	1 1/2 sided

This material is in the form of vellum reproductions which your audio-visual center uses to make Xerox transparencies. Or the vellum can be used in open projection.

JOE'S
DOPE

THE
SILENT
ENEMIES
...AND F.O.D.



■ FOREIGN
CURRENCY
DAMAGE

CLACK
CLACK

CLACK

CLACK
CLACK

CLACK

CLACK







Joe's Dope Sheet

There's an enemy agent and his
fleet's directed by GILBOSS who the
Little bits of debris
Left behind convinced
They drive aircraft out of the sky



F O B J E C T D A M A G E

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





... IN OTHER WORDS
A LARGE PERCENTAGE
OF AIRCRAFT AND
VEHICLE DISTRACTION
COMES FROM CRUISE
OTHER THAN BEING
FREE ... IT'S CALLED
F.O.D. ... FOREIGN
OBJECT DAMAGE!



YES... EVERYONE, FROM
PILOTS TO MECHANICS, WHO
LEAVE CLOTHES, TOOLS,
SCREWS, SCRAP IRON AND
SUCH - ARE SETTING
BOoby TRAPS!



CLEAN UP! AFTER YOU'VE
FINISHED A JOB... PICK UP
THE SCRAP OF BOLTER,
TAPS, NUTS, NAILS AND
OUTGAS BEFORE YOU
LEAVE THE SCENE!



OH! IF MEMBERS OF
YOUR ALL BRANCH DON'T
LEAVE CLOTHES, SCREWS,
NUTS, EXTINGUISHERS, SHOE
NAILS AND SUCH LIME LOOSE
IN ANY AIRCRAFT CABIN,
YOU'RE ABOUT TO GET OFF
IN... YOU'RE ASKING FOR
IT IF YOU DO!



REMEMBER **F.O.D.**
IS AN ORdeal TO GET
MOVING FASTER AS A
BULLET!

HEY
CONNIE,
WAIT...



I GOT TWO TICKETS TO THE GALAXY!

PAID
OUT
BY THE FOLK
FRONT OF
F.O.D.



AIR MOBILITY

ON-TO
SLIP-JOINT
SERIES...

JUGGLING ACT

HE'S MAKING
THE JAGGLED ROTOR
SHEFT IS CENTER
LINE!



Having a spin of trouble getting the two main slip-joint adjustments within limits on your Raven model Army-hel?

Then, TM 91-1500-261-28 (2a) 874 spells out the minimum limits for both joints—1.58/1.56 inches marks the forward slip-joint settings and 3.55/3.50 inches marks the limits for the aft slip joint.

Now, say, you're getting stuck on it that way.

Those limits do not have to be met all way round the joint, just be met at least one point of measurement in within specified limits.

If you do the slip-joint geometry used in para 7-33b of the 28 and still can't make those min-max limits, lower the shims support the helo. Could be the isolation mount spacers or outer gasket assembly to engine mount bearings are not correctly installed . . . or maybe the main rotor drive shaft is out of alignment.



INSPECTION TB

You air types getting a hell of a hard time on your blades between Preventive Maintenance Periods checks? You should be! Under normal conditions you can pull intermediate a few hours early without throwing your schedule out of whack. Read all about it in TM 91-1500-261-25 (21) (2a) 871 . . . make the place of TB AYW 31-87.

KEEP YOUR

COOL

When selecting cooling fan for your Service (DHS, etc.) there's a right answer job of keeping the engine cool. But the fan we get out of a truck and under your hood has another job!

HOW CAN WE TELL IF IT'S HAPPY/THROTTLE?

WELL... LOOK THE FAN BLADES FOR THE SPOKE/LEADING TELL-TALE MARKS ON THE BROW/TOOTH

WELL, WHY YOU TALKING YOUR ASS/SHIRT OUT??

The most common fault is fan-blade mis-rotation. The mis-rotation might get you just a 1000 but the direct would only take it on the die again. The worst is permanent fix.

As you know a fan blade tip-down may decrease problem already that is not so far from there. It may be well known the tip down is the minimum 1/16" to 1/8" and you'll probably find it in.

As you know the 1" fan blades tested 90 degree apart. There blades are slightly tapered because they extend the pressure buildup on the back side of the fan. An offset pressure could turn the fan into a pump.



DOY THE FAN/BLADE!

If these factors are out of position they change the air flow to create an uneven pull on the closed ring, creating a rattle-type, with the fan hitting the top of the closed.

Now, that's the real! And the solution to the problem is in Chap 1, See YEE of THE 10-110-200-20, with Ch 1 (10 May 07). Make sure that the clearance between the trailing edge of the fan blades and the forward edge of the fan housing is the same—0.002" to 0.003 inch along the entire length of the blades.

You can adjust the blades by changing the attachment screw holes in the hull. However, also, the toe-edge distance in any direction must not be reduced to less than 0.25 inch.

If the blade adjustment doesn't do the trick maybe the plane of the cooling fan is not parallel with the plane of the fan closed ring? This would mean that the fan air flow is disturbed and the blades are flexing.

Get rid of this condition by adjusting the cooling fan closed ring so that the plane of the ring and the plane of the fan are parallel within 1 inch. Make four measurements from the leading edge of the fan blade to the forward face of the ring at four equally spaced points around the ring.



SEMINOLE SWITCHEROO!

Two fan U.S. warbirds usually have field grade, no-event flight. It's when one of the fan variants is over, or out like an Indian on the warpath, that Pilot Perfect is in a Seminoles switcheroo!

OK!! NO, YOU'RE A COOP
OVER ON REPAIRMAN AND YOU DID CHECK
THE TWO ENGINE MOUNTS IN FYI LAST
FYI... **BUT!**

Hold on! Did you double-check to see if the 2 rear engine mounts were installed right? You should be able to see the slant marks on the rear of each mount as you face forward.

Sure, you're an O&M man, and you can't recall the Seminoles for an engine mount magazine job, or for converting a mount side-up. But you can read under signal (H-H-L-P) in your backup escape plans, Texas!

If left rear mount, P/N 50-41020-1, and the right rear mount, P/N 50-41020-2, are interchanged — via Murphy — the engine will sit in the engine mount assembly side-saddle, square up. Plans will be trouble for the rest of the world! Both end mounts are unbalanced and the extra vibration of the engine mount assembly doesn't mean for good!

ARE YOU
CERTAIN
THE REAR
ENGINE
MOUNTS
WERE
NO SLEET
CORRECTLY
ASSEMBLED?



These 2 rear engine mounts are double-image items. They can be placed on either side of the mount assembly and the engine will sit on them ... but at a weird angle.

In a nut, on your new Seminoles PE, double-check these mounts. Watch for cracks — and a mount imbalance. Then you can speak with straight sugar when Indian TL, MO, or Big Chief asks, "How's your popcorn?"

NEW

STOPPER

LEAK

You can stop all leakage from the Ford Digi (D4) engine-oil-pump-mounting flange anytime pump change is in the works.

Just install the pump with flange gasket, P/N 5000-21-000-1, P/N 5000-21-0712, manufacturer's code 21796 — now in the supply stream. That's the Digi Digi Digi.

STAY TUNED

No doubt about it... you've got to have your wits about you when you're the chauffeur of an airplane. You know... you've got to be thinking 100 percent of the time.



But now's one you've had his chinny-chinny chin up as he used the ANTI-NOISE (AN) radio receiver in his Boeing 70-70. He's wanted your the soap. Check up a heated soap and a needed repair job. And with his constant chatter out of his ear, the pilot's been one of his navigational aids.



**HEAR YE!
HEAR YE!**



Pilot, mechanic and passenger — keep a sharp ear! Sound pressure levels in and around the Cayote (C4) exceed 50 decibels — which means you should be wearing protective hearing devices, according to TM 55-1528-21-4-10. TM 5522-211 (21 Jan 61) on noise and conservation of hearing lists ear muffs and various other ear plugs by P/N... get 'em thru normal supply channels.

SAVE THE RINGS ... AND BAG

Save or lose hoodlums' rings in the all-weather, all-terrain bag can save dollars. Permits, permits, communication, quick-like.

In, make sure of these costly AM/TEC-88 rolls wrapped in Teflon rings. Like, when you're loading up the hoodlums assembly on the canvas to run into town, they, that or anything else don't get in the rings' way. Even any of those other items can create ring frame and leave 'em about as useful as a spring in the hand of Mr. Nook.

Then, to get that bag back in the business business, you'll have to replace the

middle spout ring, EOM E180, E21-0084	inside clasp ring, E1M E185, E21-0085	Teflon slings, E1M E186, E21- 0087	in the washed top ring, E1M E180, E21-0081
--	--	---	--

...DON'T REMEMBER THESE DON'T OVER-TIGHTEN THEM! TEFLOX (LUBRICANT) TIGHTEN THEM FOR 'EMERGENCY' TIGHTEN THEM TOGETHER... YOU CAN STRIP THE THREADS!

And, 12 Teflon covers, EOM E180, E21-0100



Be sure the rings are flat when you're rolling up the bag and pocket is empty. These weight support rings can hardly put the pressure on the rings and if they're not flat they'll get bent by the snow.

Be extra careful with that canvas bag when unrolling it. Make sure all excess fabric is pulled behind the stored bag back away to keep from jamming holes in the canvas.

For a manual reference on the rings and covers of the Teflon 88's canvas, see a 1985 eye-balling of Change 5 and page 17 and 28 of TRUCKS 11-1985-800-10 (page 81).



WATER IN YOUR GATEYES



Hold on, Owner!

If you're about to clean the 18-120 17 FT windshield's wipers and designation strips, look off a minute and look!

The only a water-disposed cloth is in the job.

Attention can liberate the designation strips, and only the business-painted symbols right off the balls... and at night, especially, it would be mighty hard to tell if they're rolling around for you.



UP YOUR ANTENNA

So, you've got your radio at one of these points provided and you're pickin' up points for improving radio transmission. That's swell!



USE WITH THE AM-1000-4 RADIO... MAKE SURE YOU ALWAYS USE THE AM-1000 ANTENNA...

ALWAYS PUSH THE ANTENNA FROM THE BOTTOM!



For these reasons you can usually get the radio's screen in CH 1 position when the AM-1000 is down (some of the higher 800 ranges).

But, it's not so in CH 2 position... and with the antenna pushed down, the hair can get against the CH-2-11 hair, they can clamp and short out transmission. So, always up the antenna.

CARE WITH THE CLAMP

A knock, bang, clomp or slam can put those blinged clamps on the AM-1000's amplifier-power supply out of communication. So, take care when you're hitching around, or pulling out the AM-1000 for use cruise or roadster.

The electrical clamp assembly is listed on Page 26 of MC 1820-00L (Rev. 00) under P/N 1820-178-1200.



OFF TO THE SWITCHES

Turn off those AM/FM-12 aerial radio or antenna in your wheelbarrow or trucked vehicle.

Don't loiter, don't dawdle, don't relax . . . just snap 'em off before you start the engine.

TURN OFF ALL OTHER DEVICES



REMOVE CASSETTE
TAPE . . .

REMOVE TUNING
BY BROADCAST

If you don't, unaccounted current surge can really loose up your set.

If it's a slave unit, keep radio switches off until you disconnect the



slave cable and turn on the master heavy switch.

To give you trucked vehicle radio type a hand in breaking the current surge, see if NRPD 11-0870-404-2571 (Just 50¢ has been applied. If this AM/FM-12 radio frequency amplifier surge increase stopped here's, get in touch with your maintenance support, and have them get the parts and put 'em in.

WET COVER WOES

These covers don't or protective covers for your AM/FM-12 aerial radio or components can be a problem after a heavy rain.

That is . . . unless you realize that CW-504 cover, P/N 5820-082-5741, from the RT-208, 028 receiver-transmitter, or CW-545, P/N 5820-082-5742, from the B-442 receiver and let 'em dry.

Otherwise, these covers, which are listed on page 258 and 260 in SC 5820-11-1 000-000, could keep moisture hanging around your equipment for days. Not only will that unwanted water soak out your radio . . . the covers covers will wind up with the wrong files.



TUGGIN' TOUGH ON TT PLUGS

AND... ALL... THIS
TUGGIN' THE COTTON PICKIN'
COVER OFF THE HERE
CHANGING BODY!

BEY!
JOB
DANGER!

Actually, Billy Joe didn't jump off the Tallahassee bridge. He just wasn't watching what he was doing.

That's like the guy who's pulling the cover off the TT-1000 microphone transmitter or removing the transmitter-disconnect.

Think an Army-type paying a maintenance whiz up disconnecting cables in the oddball places . . . like in the middle or just back of the plug, and hope you're right out.

supply and treated with . . . then take off the cover.



Some guys fear the P5 plug for the transmitter-disconnect that's connected to the J1 jack in the TT-1000. Just make sure the plug's free before pulling out the component.

AND THE GUY, TOO!

TT-1000



Take the easy right cable . . .

Keep in mind when you're removing the TT cover, open the lid first, disconnect the P12 plug from the J11 jack on the right-hand side of the press



Here, these tiny plugs are tough, but the cable won't take a lot of rough tuggin'. So, remember to give 'em the gentle disconnect treatment.

FIX 'ER FLAT ... AND SNUG

It's not a good idea to use a single rope on your MIA site. It's no fun for you or the MIA.

You're your best friend when it comes to your MIA site. It's no fun for you.

Use a rope to help you get down the jump. It's not fun for you.

WANT TO
SAVE
THE
MIA?

NEW
CONE
LADDER
...I THINK!

Before you'll know with the snuffed candle against your AN/PVS-1 or AN/PVS-2 individual weapons mounted night vision sights, take a look at the adapter mounting assembly.

Create a submersible adapter can shift and throw you off balance.

Be sure the adapter assembly is flat against the top of the receiver on your site, and there's no air in the way forward.



Toss this up with the steps for installing on Page 21 of TM 11-100-204-10 (Jan 07) for the AN/PVS-1, or Page 22 of TM 11-100-204-10 (Apr 07) for the AN/PVS-2, and you'll be in the class with William Tell.

PAMPER A PIPSY-4

Big, bold, bright man in an air cell-carry wagon. When you're bringing in an AN/PVS-411 and/or the scope on the firing line, don't swing the chopper low and risk the use of the chopper. If you can't see the chopper down, lower the Pipsy-4 to the ground by rope. Bumping it out can really make the Silver Scepter site.

HAWK NOTES



THROUGH THE STRAP

The way they're being used up you'd think they were going out of style—the automatic straps. FSM 1990-071,5091, that's part of the eleven following calls for your Hawk. 800/433-4111 organizational maintenance shop employees.

Beats that the straps you get tangled when the valve is attached to the intake following job. This will happen when the valve is hooked up from the bottom of the tank. This way the weight of the valve pulls on the straps, putting pressure on the pins.

The valve can't be used because straps pull if you connect the valve the right way—by first running it through the handle on the intake manifold.

1990.

BEHIND CLOSED DOORS

That's where your intake and venting devices, handles and doors should be in the case of your Hawk intake systems.

And those doors won't be closed good and tight to keep out water, and that will damage the intake components and prevent them at all.

It's up to you to keep the doors closed, but if their rubber seals are so worn, they're missing, and your support unit is help.



SEEING STARS?

What to do. When you see stars on the left side of the LH (the left side of your Hawk handle's boom support, the TH 740-00-2 (the LH) shows that the national symbol is placed in the same place.

You won't find a star on the underside of the rear suspension cover. Contact the CO team.

FIT TO BE GREASED

How's that? You'd like to be able to see stars. Get it out the air vent (the grease pin) on your Hawk handle. . . . But there's no way to (the star).

Looks like you've got one of those handles (the vent) (the star). More than a few of these have pins (the star) (the star) (the star).

When you do it get your support unit on you in the right place. They're on page 117 of TH 740-00-11P/1 (the CO) (the CO) (the CO). Then you can get in the grease (the star) (the star) (the star). Then you can get in the grease (the star) (the star) (the star).

BET IT'S WET

Maybe it's happened to you.

Your Hawk handle gets less steady when you get it in motion. . . . you get hit by way (the star) when you make (the star). . . . or the handle was like in too a kind of it (the star) when you were the elevation and (the star) (the star) on the handle (the star) (the star).

Chances are the LH is too a (the star) (the star).

Once you get rid of the (the star) you can help to keep it in (the star) (the star) the pressure (the star) valve's (the star) (the star) when the LH is (the star) (the star) . . . keeping the LH (the star) when you can, (the star) (the star) . . . and (the star) (the star) in (the star) (the star) and (the star) (the star).

Also—and here you'll need your support unit's help—optimal (the star) should have waterproof (the star) or (the star). The (the star) (the star) should be (the star) (the star) it's (the star) (the star) and (the star) (the star) in the LH.

A CLEAN SWEEP

It's been happening at Fleet centers—dirt and dust getting on the gears in the automatic and hydraulic components for the AN/TTC-21 simulator station. And the way those gears mesh, it doesn't take much wear to get your ship and backstab.

How does the dirt and dust get in the gears?

When you open the component drawers to make an adjustment and then forget to close them when you're done. That's one way. Those drawers need to be closed, especially when the equipment's running.

Using a broom to clean the simulator station, while the ventilation blowers are working, is another way. Make with your vacuum cleaner instead—the way it says in TM 9-1458-112-1211 110 Jul 66. And it's a good idea to vacuum with the blowers off.

SNEAKY LEAK

Your Fleet AN/TTC-21 simulator station is no place for a crowd. But that's what you'll get if your support people have to work in the cabin because in the whole-ship cutaways.

And work as they will if the four 24-24 hoses are connected in the cutaway hole and cut into the cabin. The hoses are the ones that let you and the people in the factory control control with back and forth and are in just the right spot to splatter hydraulic oil into the cabin.

To take a closer look at 'em from every angle over a week, and if you're not going to use the simulator station for a spell, take the hoses out of their covers.

CHANGE LUBES

When you see ... the lube used on what to use for lubing drawer assembly slides and latches, hinges and handles in your Fleet AN/TTC-21 simulator station.

To be up-to-date, page 243 of TM 9-1458-112-1211 Jul 66 should say to use grease and instrument grease on the slides. Page 71 of TM 9-1458-112-1211 Chap 67 has a 1-8-oz. canister FSM 9158-112-1148.

And instrument lubricating oil goes on the latches, hinges and handles. There's a 1-pb can—FSM 9158-112-1128—in page 17 of the same TM.

RELAY THIS MESSAGE

Your Hawk AM/TPQ-21 miniature rocket launcher is loaded with the FOX 9M42-200-2000 variety of miniature relays. And when they go to you, your daily operational checks don't work out.

Trouble is . . . some guys are treating 'em like they're real rugged, and this they're not.

So handle the relays like they can get handled real easy — every day you.

Also make sure you use the right mounting screws when you put in a relay. Your support people have them — FOX 9M42-200-2001 on page 100 of TM 9-4450-112-21071 (Rev. 07).

Go easy when you tighten the mounting screws . . . and be sure they don't stick out beyond the mounting plate — where they could foul up the operation of the relay.

BY THE BOOK

Sure . . . it means some extra steps, but it's one way to keep trouble before it starts in your Hawk AM/TPQ-21 high-powered illuminator.

That is, to go from nullify to standby and then to all the way to way to table 4 of TM 9-4450-112-1 (Jan 88), including Ch. 3.

If you shut down the relay without first going into standby, you can wind up with burned relays, burned switch contacts, burned contacts, thrown the fuse, and time out of commission. And the worse you won't be able to replace or maybe you get the relay up to operating temperature.

KEEP THESE
NOTES
AROUND, THEY'LL
PROVE TO BE handy.

NOT ENT FLAP

Classes are your own! It's now authorized for outdoor maintenance training only use, FSN 8340-011-0412, instead of the capable, frame-type lighter-weight use, FSN 8340-011-0207.

Your new use comes in sections and goes through the whole use is listed by FSN 8340-011-0412, you will have to order by components.

HERE'S THE
ROOF TO HELP YOU,
WITH A LITTLE FLAP AND A
BIT OF LACE. NOW YOU'VE
MADE A TENT IN FEET HIGH
44 FEET LONG AND
20 FEET WIDE.

WHAT'S
THE
FLAP
NO. 1, 2, 3,
(17)

SELL
THE
FRAME
SECTIONS
COME
IN "PACKS"
BUY THE
FLAP
ALLOW
SEVERAL
FRAPS.

YOU CAN AND
8-FOOT SECTION
AND MAKE IT AS
LONG AS 24 FEET
...ORDER 'EM AS
YOU GO.

Frame Section,
Type, FSN
8340-011-0412,
pack No. 1

The back-
drop or
padding on
page 124
of C&G 11.1.A.

Send Your
File, 12 in by,
FSN 8340-
011-0411

FORGE 4 in,
Type Section,
Intermediate,
FSN 8340-
011-0410.

One last thing, do. The FSN for
Pack No. 1 is 8340-011-0412, use 8340-
011-0410 as it is listed in the catalog on
page 124.

If you're in classes where you're
authorized for use, FSN 8340-
011-0412, then you'll need to order by
components like this:

- Type Line, FSN 8340-011-0410,
intermediate section, w/cover,
(10) (100, 100)
- Type Line, FSN 8340-011-0410,
intermediate, "W", w/cover,
ground and legs, 1 ea.
- Type Line, FSN 8340-011-0410,
intermediate, "W", w/cover and
ground, 1 ea.

To lighten your use base, order
Type Line, FSN 8340-011-0410, inter-
mediate section, w/cover, 1 ea. This
will add no 4th section to your line.

There's a 100 in the mill, but for
now be sure to look us up. TM 8340-011-
0207 (100 01). That's the parts
manual for the old use, but none of
the hardware is interchangeable with
your new use (FSN 8340-011-0410).

TM 8340-011-0410 gives you the
steps on erecting the tent.

PROPERTY BOOK 1000P

The use and the line rate special handling in the property book since neither
use is listed as a package.

You need the complete use order in book FSN 8340-011-0412, on use
page. Then you have to use a separate page for each of the components, like it
was in 83 750-01 for individual items.

You give the line the same property book treatment.

HEY,
CURRENT
CHEF —

JUST A
FRICKY-ACCIE
POWER...

...AND THE
DELIVER IS
PERFECT!



Edison cooks roasting military design generators, 1-1/2 kW to 10 kW, have a new rule for their current heater—a big change in filing.

Let's read from the power bill that everybody's been raising the clock on wiring. The steps are in this—

BYPASS THAT OLD
SETTING ON YOUR
METER OR OVERHEAD,
PUT THE IN RUN POSITION
FOR FULL, INSTANT
SPEED... THEN...



WHEN DEPARTING...

1 GREAT
BRAKE
OFF

2 HOLD BACK
ALL THE WAY
DOWN
SLOTTING

3 STRAP — 2
IN 10 MINUTE

IN THE SHOP, YOU WILL
USE STRAP THE



WHEN DEPARTING...

1 FOCUS UPON
GATE OFF ALL
THE WAY

2 HOLD
OFF

3 FOR 10 SECS
USED 1 TO 10
MINUTE

MESSAGING 290M MAHOUTS

Your 290M motor probably has its low idle speed set too low. The latest word from the handbook is to set the low idle speed up to 675-710 RPM. It won't affect fuel power, exhaust vibration, and your valve train's carbon so much.



BOOM STOPS STOPPERS



If you have an American Hiler and Derrick Model 200 Crane, here's an answer to your question that'll keep the boom stops from coming loose from the supports.

Rebuild the existing holes to 1 1/2-in. diameter and then use the stopper 1 1/2-in. center pins, ITEM 1009-009-0018.

NO KNUCKLE BUSTER NOW

To keep from loading your knuckles when engaging the front-wheel drive on your American Hiler and Derrick Crane Model 2100, test and bend the front wheel-drive lever forward. Measure the lever 6 inches from the floor and then bend and hold it forward 10° toward the front of the cab.



NEW TOOTH SHARPENER

As you're tired of handling chisel-tooth work 4 or 5 times a day, but you don't have a manual for that specific new Grinding Machine, New York, ITEM 1415-000-000. Ask for Manufacturer's Tech Manual 760-C1-0708 from Mobility Equipment Company, AMERISTDALE, 4500 Conditville Blvd., St. Louis, Mo. 63126.



RIGHT POOP - WRONG PUB



The info that TM 5-218-21-4-13 says you need to adjust final drive bearings on your D7E is—*not* all places—in the '55 version of the family TM. You'll find instructions on page 230, page 80 of TM 5-2410-214-01, and you can see either of two versions—ITEM 4901-002-0000, or the 2-hole type, ITEM 1120-091-0000.

NEW LOOK

REPAIR PARTS MANUALS



THEY'VE SET UP YOUR HOME AREA NOW!



NO, I'M MIDDY!

The new part

That's the word on the new repair parts and special tool line—simplicity.

Everything is clear and simple and neatly laid out for maintenance and supply men.

Best of all, they list allowances in whole numbers. You'll use a formula only when you're figuring up your initial allowances for over 100 pieces of equipment.

"As required" items are flagged with an asterisk, as they have been in the past. The mandatory stocking items are coded with a +. This + is brand new as you may not see it in the parts manual for a while.



PLA 1000

PLA—The PLA summarizes mileage allowances for 14 days. It's a good size pile, 'cause when you take the PLA's for all your equipment and put them together you come up with a big book of your unit's PLA.

DATE	MILEAGE	1) MILE DISTANCE			
		1	2	3	4
01-01-78	100				
01-02-78	120				
01-03-78	140				
01-04-78	160				
01-05-78	180				
01-06-78	200				
01-07-78	220				
01-08-78	240				
01-09-78	260				
01-10-78	280				
01-11-78	300				
01-12-78	320				
01-13-78	340				
01-14-78	360				
01-15-78	380				

Repair Part List—The repair part list is a list of parts you're authorized to stock or use. It lists all items in the manual's PLA plus all the "as required" items you're authorized.

DATE	MILEAGE	DESCRIPTION	QTY	2) MILE DISTANCE		3) PART NO.	4) PART QTY	5) PART UNIT
				1	2			
01-01-78	100	1000	1					
01-02-78	120	1000	1					
01-03-78	140	1000	1					
01-04-78	160	1000	1					
01-05-78	180	1000	1					
01-06-78	200	1000	1					
01-07-78	220	1000	1					
01-08-78	240	1000	1					
01-09-78	260	1000	1					
01-10-78	280	1000	1					
01-11-78	300	1000	1					
01-12-78	320	1000	1					
01-13-78	340	1000	1					
01-14-78	360	1000	1					
01-15-78	380	1000	1					



The items that show a mileage allowance on this list are the same ones authorized for tracking by the PLA. All other items in the list are flagged with an asterisk.

Parts used on specific models or series of equipment are shown with a "model no." code in the item description column. (This goes for the PLA, too.)



★ SPECIAL TRAIL—If your equipment is authorized special tools, test and support equipment, the TM will cover the items in a separate list.

★ INDEX—The index helps you locate parts in the TM by crossing P/Q's and item reference numbers in illustrations and item numbers in the illustrations.

DATE	MILEAGE	DESCRIPTION	6) MILE DISTANCE	
			1	2
01-01-78	100	1000		
01-02-78	120	1000		
01-03-78	140	1000		
01-04-78	160	1000		
01-05-78	180	1000		
01-06-78	200	1000		
01-07-78	220	1000		
01-08-78	240	1000		
01-09-78	260	1000		
01-10-78	280	1000		
01-11-78	300	1000		
01-12-78	320	1000		
01-13-78	340	1000		
01-14-78	360	1000		
01-15-78	380	1000		

DATE	MILEAGE	7) SPECIAL TRAIL	
		1	2
01-01-78	100		
01-02-78	120		
01-03-78	140		
01-04-78	160		
01-05-78	180		
01-06-78	200		
01-07-78	220		
01-08-78	240		
01-09-78	260		
01-10-78	280		
01-11-78	300		
01-12-78	320		
01-13-78	340		
01-14-78	360		
01-15-78	380		

☞ Differences...? ☜

Some of the very first manuals published under the new format may not have all the fine features you'll find in the latest RPASTL's. That's 'cause some TM's had to go to print before all the latest improvements had kicked in. Eventually, all new repair parts manuals will sport the new, easy-to-use format.

UNIT 2

The very latest RPASTL's use a unit-of-measure (U/M) column in place of the unit-of-issue column used in older manuals, and early type RPASTL's. The "unit of measure" is the unit you normally use when you do a repair job. The U/M gives the amount or quantity (such as pails, pounds, gallons, feet, inches, run, etc.) your allowance is based on.

That is, a RPASTL quotes the U/M's you're authorized. And for the unit of issue info you need for your DA Form 2941, you go to the supply publications TM's, SC's, ML's, etc. There all you have to do is enter the lowest number of units of issue that'll provide the U/M's you're authorized.

In all cases, of course, it's a good idea to check for any unit of issue info you may have on an item from your supply support code.



In the latest RPASTL's you have three columns in the various sections. And, in RPASTL's that cover all levels of maintenance (like a J1P or a J1P TM), the separate sections for organizational level fall in a different sequence, as they're not numbered the same as they are in organizational level RPASTL's.

And, when changes or revisions are published on a RPASTL, you'll have update codes in the title to tell you what's been updated. The codes, used along with the IEM or manufacturer info, are:

R — Parts not available in the IEM.

C — Major design changes with title item's description.

F — Error or fix change.

IS THERE YOUR RPASTL?

When you check a RPASTL for the first time, stop at the "Introduction" section and read it carefully before you start thumbing through the manual. The section gives you complete info on the manual's format and its use.

If you have any problems or questions on a RPASTL, you put in a DA Form 2928, Recommended Changes to DA Publications, or drop PS a line — Connie and Hal-Matt will be standing by to lend a hand.

TO X OR NOT TO X

Dear Staff-Sear,

A deficiency in a check and DA Form 2488-14 is an uncorrected fault record — right? No, do we or don't we record deficiencies on the indicator.

BY G. B. L.

Dear Inspector D.D.A.,

Except on aircraft, the maintenance supervisor decides when to record deficiencies on DA 2488-14.

On aircraft a deficiency — red X or checked and X — is not permitted on DA 2488-14. Even if a red X deficiency is downgraded to a checked and X, for a one-time flight, it stays on DA 2488-14. And maintenance checks on aircraft are recorded on the DA 2488-14 only as approved by the CO or his designated representative.

DOES THIS GO
ON DA 2488-14?

NO, I DECIDE WHEN
HOW PUT UNCORRECTED
DEFICIENCY ON THAT
FORM!



ITEMS BY MAIL

For all other equipment the maintenance supervisor decides which uncorrected deficiencies checked will be recorded on DA 2488-14 and approved by signing in column 2 of the form.

Even though the decision is up to the maintenance supervisor, it's generally assumed that there's a need for entering an unrestricted fault on DA 2408-14 only on operable equipment. It's also assumed that when there's a deficiency, steps usually will be taken immediately to correct it (and record correction on DA 2408-14) or make out immediately a DA 2407 maintenance request to send the equipment to support. If this is done, no entry on the fault on DA 2408-14 is considered necessary. (The entry on DA 2408 plus a status entry on DA 2408-1 — if the equipment has one — will show the equipment has a deficiency.)

With a deficiency, the equipment is—by definition—impossible to operate. Even if the deficiency status symbol is a circled X, the equipment is impossible unless released for restricted limited operation by command authority.



No, it's normally assumed that there would be a need to enter only deficiencies with a circled X status symbol on instructions for use on DA 2408-14. In fact, if limited operation of the equipment is to be authorized, it's considered advisable for command to comparatively downgrade an X symbol deficiency to a circled X deficiency (by entering it on the next open line of DA 2408-1 and signing the new entry) before transcribing it on DA 2408-14.



That's the recommended procedure. But, except as already, TM 10-710 doesn't specifically say that any deficiencies (X or circled X) can't be transcribed on DA 2408-14 — even though the equipment remains impossible as long as there's an unrestricted X deficiency on the form.

COMMERCIAL MANUALS

Most equipment that requires repair parts and maintenance services is supposed to have a regular DA manual. Check DA Pamphlet 55-14 to be sure they're yours. You can order the manufacturer's manual.

HERE'S THE LATEST ADDRESSES FOR ORDERING REPLACEMENT MANUFACTURER'S MANUALS ON YOUR PIECE OF EQUIPMENT... IF THERE'S NO ARMY TM.

Commanding General
U.S. Army Military Equipment Command
ATTN: AMEC-224
3200 Goodwin Boulevard
St. Louis, Mo. 63108

Typical equipment:

Armored
Engineered
Tractor
Motors

Commanding General
U.S. Army Weapons Command
ATTN: AMWC-228-13
Equipment Division
Fort Monmouth, N.J. 07703

Tools

Commanding General
U. S. Army Vehicle Research Command
ATTN: AVRC-200
P.O. Box 200
St. Louis, Mo. 63134

Special
Specialty-Trucking
Equipment

Commanding General
U.S. Army Tank Automotive Command
ATTN: AMTAC-200
Wheeler, Mich. 49782

Car
Trucks

Commanding General
U.S. Army Works Command
ATTN: AMWC-200007
Baltimore Arsenal, Baltimore 21204

Machine-
Related
Equipment

Commanding General
U.S. Army Ordnance Command
ATTN: AMOC-200-200-10
Fort Monmouth, N. J. 07703

Auto
Motors

Commanding General
U.S. Army Materiel Command
ATTN: AMMCM-200-200
Bacon, N. I. 07003

Automotive
and
General
Equipment

Connie Rodd's BRIEFS

WE'RE PLANNING A
NEW POSSIBLE CHANGE
OF P.O.D., COME?



AR 755-55-1

Supply types — quick-look, ask for a copy of AR 755-55-1 (Dec 67), Issue Priority System. It's a handy, perforated guide for Supply's UNCL (a group of Mixed Designators). And, the new AR's exempt from guide distribution except covered in SA Or 314-61 (Nov 67), so you can request your handy guide any time.

More On These M.L.s

These new C.M.A.'s (Catalogation against Data List-Army), also "price lists," won't be effective until 1 Aug 68, so you can keep using the M.L.'s you now have until you get the new type. There may be about 20 volumes in the new C.M.A. so be sure to check to see that you have 'em all.

Form No. 2 Supplemental

You can bring your No. 2 Supplemental and SA, TSN #948-734 07-01, up to date by checking SC 4940-PS-CL-A08 (Jul 67).

Blank Forms

If you're not sure which AD Publication Center (Baltimore or St. Louis) furnishes blank forms to your unit's publication activities, check Change 4 (Dec 66) to AR 315-1 (Mar 65). Your location determines which Center serves you.

Military Stoppers

Military Standard Engines, 18 to 30 HP, sometimes get annoying crank shafts from loose locknut bolts. If you've a 2402-B or -C, or a 4402-B or -C, ask support to torque those bolts to between 80 and 90 lb-ft, not 40 to 50 lb-ft like TM 3-2003-204-14 says on page 24. See the word in the latest TM.

"Copper" Mask?

If your M17 field protective mask gives off a copper-colored substance, don't wear it. The discoloration is not a defect — it comes from a chemical used by one manufacturer to compound the rubber facepiece. Just clean the mask as often as needed. See it says in para 28, Ch 4, TM 3-4248-200-11.

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



KEEP ENGINES COOL

NEVER INSTALL THEM... OR OPERATE THEM
WHERE AIR CAN'T GET TO THEM
NEVER REMOVE THE ENGINE'S SHROUD
WHILE IT'S OPERATING!
NEVER LET LUBE LEVEL DROP TOO LOW!

COOL MAN... COOL!