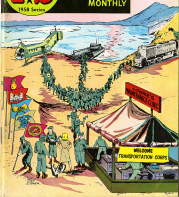


Issue #11

PS

1958 Series

THE PREVENTIVE MAINTENANCE MONTHLY



TRANSPORTATION CORPS



OFFICIAL PUBLICATION
OF THE
TRANSPORTATION CORPS

15 November 1957

By Order,
The Adjutant General,
Transportation Corps

NOTICE

Members of the Transportation Corps are urged to contribute to the maintenance of this publication by submitting articles, photographs, and other material of interest to the Editor. The Editor's address is: The Adjutant General, Transportation Corps, 1215 North 4th Street, Fort Belvoir, St. Louis, Missouri 63105.

The Transportation Corps is a branch of the Army. It is a part of the Army's transportation system and is responsible for the movement of personnel, supplies, and equipment.

Members of the Transportation Corps are urged to contribute to the maintenance of this publication by submitting articles, photographs, and other material of interest to the Editor.

The Transportation Corps is a branch of the Army. It is a part of the Army's transportation system and is responsible for the movement of personnel, supplies, and equipment.

Special Agent

Robert L. ...
Special Agent



JOINS PS



THE
PREVENTIVE
MAINTENANCE
MONTHLY

Volume No. 44

1957 Edition

Published by the Department of the Army for the information of organizational maintenance and repair personnel. Distribution is made through various distribution points. When funds are available, other interested persons may obtain direct from Transportation Maintenance Agency, Service Branch, Research, New York.

IN THIS ISSUE

EQUIPMENT

Army Arsenal	10
Vehicle Repair	42
Trucks	6-11
Written Military Notices	14
Trucks, Tractors, Trains	
Columns: 1-7, 11, 13, 20, 41, 47-48	
Wagon	19-27
Trucks, Six Wheel Drive Tractors	18-20
Vehicle Care	21-29, 31
Motor Plans	30
Tires	32
Vehicle Wash	34
Fuel Pans	35
Cooling Compressor	36-37
Vehicle Problems	38-39
Maintenance	41-43

DEPARTMENTS

Corps Bulletin	14
Questions and Answers Department	20
Vehicle News	30
Contributions	30
Editor's Reply	40

It needs your ideas and contributions, and is glad to accept your questions, just write to: Sgt. Bill Ross, PM, Service Branch, Research, New Army Service and address, see back in magazine.

The contents of this magazine are based primarily on the experience of the maintenance personnel who have worked in the field. It is a practical guide to the maintenance of the Transportation Corps equipment. It is a must for every maintenance personnel. It is a must for every Transportation Corps personnel. It is a must for every Transportation Corps personnel. It is a must for every Transportation Corps personnel.



SEE FRONT ARMY AIRCRAFT SPECIAL, STARTING ON PAGE 1.



ARMY AIRCRAFT?

CHOPPER CONKIN'?

Scams like some of the UH-60A's with B-1000H engines have been caught out locally, particularly those with Bendix Remonding 991111-2 Model PD-1001 carburetors on 'em. This is disconcertin', so say the boys, and serious.

Apparently there are two carburetors has been covered in construction. The other possible was a sticking poppet valve, that might have had something to do with this.

So please to go check TB 37M 21-1. This TB is on engine-driven and auxiliary fuel pumps, all aircraft.

But it applies here, because it applies when precautions to take in handling fuel, to prevent contamination. And our standard fuel has not only covered the fuel-pump bellows, it has also done the poppet valve on side.

In, you see, creating a fuel-pump TB in correct carburetor troubles does make sense.



RETORQUING TABOO

They boys did it! They cut down on a maintenance requirement.

On Pratt and Whitney turbo-propeller packing gland nuts, it was. It was decided that periodic retorquing of these glands was not necessary, and needed to tear up the nuts, with possible plugging of the oil passage.

So from here on, you don't touch 'em unless they leak. If and when a leak does develop, you replace the nut, and torque the gland nuts to their original . . .



U-985-AM-210-210-100 TO 100 (RCA-PHOTO)
 U-1280-27-100 U-1280-26-100 TO 100 (RCA-PHOTO)
 U-200-24-124000-210-200 TO 200 (RCA-PHOTO)
 BARBERS-210-100 TO 100 (RCA-PHOTO)

HERE'S THE RUB

The heavy fuel line UH-60-1001-10 on your H-50 engine sometimes get chafed by the clamp assembly U-6041-1. The clamp pressure around the rivets vibrates and the rubber liner is rubbing the fuel line.



Check your plans, and if you find a wear pattern for the engine it.



Then take the clamp off the line, and see if it fits it. There'll be an even better chance, nobody even a fuel tank into the cabin, that's for sure.

CLEAN YOUR CLEANERS

You all know that dirty operation is hard on aircraft, the more dirt, the shorter engine life, and the greater oil consumption. This has been particularly troublesome on the B-500-NV engine in your U-20's.



Watch for U-1120A-111 which'll show you the air filter and air intake together up on the wall so you can see the dirt traps up by the prop wash.

Until your ship is modified, be sure careful about supporting and cleaning your air filters. If you find that the air filters are pulling through the retaining screen of the filter element, get a new one.

AND THAT'S NOT ALL—

This does an Army aircraft is just the first you'll be seeing in Flightline Transportation Corps equipment. Fuel, marine, fuel transport—all will be covered in the PD issue to come.

ON TOP OF OL' SMOKY

They laughed at old Stovepipe Sam when he laid back, easy hands with his favorite wilderness playmate, The Yellow Smoke, M.P.S., that is.

He cleaned, adjusted, inspected and tightened.

But when the timber came and the stormmen dropped Sam's alescope in a side leg, there never was a colder crew than the boys who figured their Yellow could live forever.

To keep the rest from flyin', and to make sure the heat's on when it ought to be, they stowed their PM pipe on the leg.

Even before lighting up, he saw the stovepipe sections set right... the draft diverter secure... and the new shingles in place.

HEAT
DIVERTER
PIPE
COLD PM
PIPE
SECTION
TRAIL

Back up on snow, incidentally, is a shifty proposition. The snow legs get too gummy some, and make the fire on snow they're meant on. That's where old Yellows goes into a daze.

From the heater on blocks of rock to keep on an even keel.

If liquid fuel is being used (gasoline, kerosene, jet fuel, etc.) be sure the off-gas fuel tube keeps the fumes away from the sides of the stove. Gases, water vapor, a heavy fall of fumes if you forget to stop at any gas, etc. that may spill inside the burner assembly and stove body.



To let the coils of paper and to cut up the fuel, it's not healthy exp. Get rid of it quickly, quickly. Get some PC about fuel—long enough on the gravity feed adapter to be sure it's just as tight and not looking fuel from the face.



Just because that has been to enable' along, though, is no reason to waste fuel and get burned up over next week's pass. There's things to do, like, "Starting operations."

After checking for leaks, watch how intense slow—the fuel drips. The process is simple: According to an old Greek law, as the level of fuel goes down, so does the rate of flow. Anyway, when that happens you have to jack up the drip rate.

Our next thing while operating, and that's the routine when the burner pops out. Make marks on the valve and that is. Careful about relighting it, now. Wait till it's cool enough to put your face past it.



Cancel that to shut down and you that the drip rates. Shut it, shut it, and not lighter till it separates. Why rule it?

See that black, soot stuff on the burner assembly? That's right, it's carbon. And it should come off before the stove is used again. Burn something when and then the grate of coal or wood has been providing the heat.



Get Some This List of 48's
To Stay-True Control Moves

ON YOUR FIGHTIN' 48

TANK TALK

When the control levers in the M18-series tanks are on the rugged side right enough.

So is the tank itself, but you wouldn't want it off a hill and expect it to come up again.

And, when you're caught in fire-control equipment, you had you're aiming through it the target you're ought to be aiming through.

There's no time to keep the equipment in shape. It just means remembering your M18-series.

Keep your levers and parts off the control levers, handles and dials when you want to be in better control of the tank.

Forget that equipment stuff when it comes to turning knobs. If they don't work, they're not, call in your support unit.



Remember that the control equipment isn't always waterproof, which means you don't want to clean the control equipment with a hose or water hose.

Watch where you aim the water hose when cleaning the inside of the tank ... you're not the control equipment you can get to clean the inside with a hose of water.

Have the smallest electrical mechanical find up repaired right quick, cause most control can give you big-time fighting time.

NOTE



Follow instructions for operating the equipment down on the tank.

Keep oil, grease and solvents off levers, switches and other small parts of rubber. Sprinkle a little talcum powder on rubber parts and apply to give it a new look on life.

SLAM, WHAM, DAM(AGE)

You're in the ball when you clean the leader's hands on the M18-series tanks.

Be it, keeping the ball close to a good line, the you want make sure the ball is in the open position when you're done.



When the ball is in the closed position while the ball is open it will not be beyond the ball's line.



... and when the equipment starts when the ball is in a heavy, right over top is ball.



Make sure the power to the drive levers feeding these high voltage power cables that go to the radio and postage.



Let the power off before adjusting any other things so you don't lose out wires.



To play it smart ... make sure the ball is out of the way whenever you clean the control.



HUB CAP HASSLE

GET THE
GARDEN
LOOK

Hold on there, friend! Don't worry about getting in the bushes—the one that gets into the single-rib-type steel-wheel hub caps on your M41A1 tanks, M902 tractors, M91 120-mm self-propelled howitzers, M44 120-mm self-propelled howitzers, and your M42 and M42A1 40-mm mortar cartridges.

The garden may not be the reason these vehicles have been bleeding oil around these hub caps and around the cap lock bolts.

Our landscaped mechanic worked over your garden all the way from the top. Round one layer in water's the garden that was causing the leak above all. Looking a little further, you may also find that the hub cap itself is porous and the oil is leaking through the metal, and sometimes through to the bolt holes and out past the lock bolts.

So, here's what you can do to fix up those leaky hubs. All you need is some Thinner, paint, vehicle maintenance, 1 GUY 800-241-2000 gets 1 gallon from the Equipment & C Company water garden forcing compound (Partners No. 2) GUY 5280-212-8001, and a few 1-40 square patches cut from an old inner tube.

First, take off the hub cap and wash it clean in the thinner. When the cap dries, lay it flat on top on a hard-to-find your finger right under a hole hole and fill the hole with thinner. (Careful you don't get any thinner inside the cap.)

Now, put your thumb on top of the hole hole and squeeze a few times. If there is any amount of pressure inside of the cap the thinner will find its way through and spot or bubble out the oil for each hole and into any holes. Dry the top-off spots.



Now, fill up the hole holes that leaked with the compound. Scrape off any that run out the top or bottom.



Next, take three rubber gaskets and hold 'em tight over each end of the ball hole with the C clamp. When you tighten that clamp up, the compound will seep through the passages in the piston metal and appear inside the ballings.



To seal the compound out of the ball hole by dropping a piece of cloth through it. Cover the compound that seeps into the cup around the area where it came in. Don't use a rag to blot off extra compound — wipe it off instead.

If there's latex foam the inside to the outside of the cup that seeps past the ballings, you can find units putting the little plug back balls but you can't carry the cup into them — open the edge of the clamp.



Mark the area where the thinner starts to dip into the cup—that's where your leak is. Take a small ball point hammer and tap away at the area where the leak showed. When the leakage stops, you've sealed the hole closed.

GIG NOT—WASTE NOT

Just a reminder to all inspectors, and particularly to spot-check teams: Detached oils often look dirty, but they've been in an engine as little as five hours. But this doesn't mean they should be changed, there's less of useful life left.

So if you find an engine with dirty-looking oil, don't gig it until you have checked back to see when the oil was put in. Remember that the LO's say oil will be used for 4,000 miles in a wheeled vehicle, 1,000 miles in a tracked vehicle. The only reason for changing is more often is operation in extreme dusty conditions (or contamination by gasoline, coolant, or soot).

On one point, super-leaky giggering usually means the amount of engine oil consumed to be greater than the amount of gasoline used.



LET'S DESICCATE

Dear Mr./Mrs.:

We are situated in a spot where the climate is just so-so, not really hot or cold and high humidity.

The medium tanks in our outfit have external phone lines mounted on the rear of the tank. Some of these lines contain desiccant (silicicating) bags—MWD-DA-1001.

Since the phone lines are not airtight, the desiccant tends to draw moisture from the outside to the inside of the line. So we've been wondering if it wouldn't be better just to leave the bags out of the line.

IPJ L. L. B.

Dear IPJ L. L. B.,

Depends on whether or not your phone lines have had your Glendale hole drilled in 'em yet.

When it was found that keeping these lines water-proof was practically impossible, alternatives were whipped up to provide the drain holes to keep water from collecting and staying there. (See MWD-Gen G4-W15) and MWD-Gen G254-W15.) But since those MWD's are not classified "urgent" it may be some time before they're applied to all the tanks.

Remember those desiccant bags can help keep your phone equipment dry—if they've handled right. In such a humid climate they'll get saturated fast—and ought to be re-saturated often, at least once a week.

Which is simple enough... if you arrange for use of an oven-like in the mess hall or company kitchen. Put the bags in the oven and bake 'em for a couple of hours (or according to the time and temperature stamped on the bag if it's still readable). Make sure the heat's not above 170° for hot—if it says so on the bag.

Of course, the desiccant bag can't do much good unless that phone line is kept right as possible. But it can't do any harm, so far as drawing its excess moisture is concerned. It'll just absorb all it can hold... and hold it. And that's that.

But once your line gets the drain holes, there's no longer any point in messing with the bags. Leave 'em out.



LIFE-SAVING PIN

Down in the driver's compartment of your MH1 and MH1A1 tanks and your MH1 motor carriage, right at the base of your T-bar steering control, you've got an oil cup that you'd better not overlook. You can easily miss it, even though it's spelled out in big bold letters in your vehicle's GO's because it's partially hidden by shafts and stuff.

Now, if you haven't opened 'er and haven't been giving 'er that dose of oil every 250 miles, you could very easily have a few ratchets in the palm of your hand next time out.

The spring-loaded locking pin (P/N 5911-741-8739-G111) is supposed to lock that T-bar up good'n'right when you've shifted into NEUTRAL PARK. But if it hasn't been lubed up or is out of adjustment, it may not shoot into the locking hole in the bottom of the T-bar. So, now, when you step on the gas and move that T-bar the least bit, the motor (the NEUTRAL STEER) and that tank can go into one of the three options you've already got—*and* you'll be some how when you get into its path.



By way of adjustment I mean that the pin linkage may be so tight that it won't reach far enough to go into the T-bar hole to lock it up. On the other hand it may be so loose that it can't disengage itself from the T-bar.

Just to be sure that none of your buddies get hurt, better give this baby a real close check to see how it's working on your vehicle. And, for goodness, don't use the T-bar for leverage when climbing out of the tank. If the pin is engaged, it can be broken off easy.

FUEL PUMP FOUL-UPS

Fuel pump diaphragms keep in on A05 891 and A17 1700 tank engines are sometimes as hard to find as a rat in a barrel club picnic, unless you know what to look for. Reason... they sometimes are the same as carburetor or ignition assemblies.

Diaphragm failures are more likely to happen if the vehicle has just come from storage. Fuel in gasoline can oxidize during storage and can gunk up the pump.

The first clue, and the easiest to spot, is an all-level rise. When your crankcase oil comes up to's you can notice it, or smells like it's been mixed with gasoline, your pump diaphragm assembly's probably burned and gas has seeped into the crankcase. If so, don't wait for a runaway explosion to clear your dashboard—drain your crankcase and get a new fuel pump.

A fuel pump's main hydraulic lock, too. If the fuel tank is too full, warm and expanding gasoline can leak through the pump into the air and into the intake manifold and from there it can fill the cylinders. Crank 'em without a piston check and...POPP! Right in the ear roll.

Try making like Starbuck Hobson and check these clues:



BUY A NEW FUEL PUMP...
 FROM AN AUTOMOTIVE PARTS STORE
 DON'T BUY FROM A STREET VENDOR
 AND DO A CHECKUP ON ONE OF YOUR
 FUEL PUMPS. CHECK OTHER PUMPS
 AFTER GETTING A READING ON THE ONE.



You should get an average pressure of 3-5 PSI minimum to 5-8 PSI maximum. The reading should hold for 30 to 60 seconds after cranking. If it doesn't, try a new pump.

NUT-WORKS

A wood is you tight-task man handling all those luggies with Building-eye suspension. Your task involves adjustments in a simple manner when everything works right. Right? This can help you keep it that way.

As you may've found already, these various adjusting nut and systems have a way of creating and locking-up if they don't get a little attention now and then. Here's the attention they need:



Easy time you took a little—so at each "C" corner, loosen the adjusting nut (top and back of the nut). Then push the blocks with LM. Use your 1/2" nut.



But - level this. If you're in too much pressure you'll get trouble. When the nut's covered both on the outside, the corner piece'll push against the expansion ring at the end of the nut and pop it out of place.



Good way to give it call is to get your piece on the system through-out in the nut. Then when it's covered both on the nut'll push any corner piece out of the way—away from the gap.



Again, if you find the blocks already ready, you'll want to check out first. Then go on with your pushing.

Connie Rodd's

"THEY'VE GOT IT"



Don't be fooled!

Your STM and SHM battery batteries are mighty powerful animals—you never see a battery that can heat 'em for cranking your engine.

It's a fact, those batteries can be way down to 1,100 specific gravity (connected to 10° F) and still turn over your engine on a day that'd freeze a bear monkey.

Which is mighty fine when you're 'crin' to start a vehicle. But there's a joker in the deck. A battery that's as low as 1,100 gravity will freeze at 10° F. So in this case you don't get any warning, your battery will turn over your engine just fine, and will freeze up as soon as you hit it in cold air a while.



Which means you can't afford to get careless about your hydrometer checks, particularly in cold weather. Smart drivers check their batteries every day

of a cold snap, and jump 'em out for changing the oil since the temperature corrected hydrometer reading falls below 1.125.

Don't wait until your battery won't crank your engine before you start worrying about recharging, you may find a frozen and frozen battery too. Let your hydrometer—*not* your starter—tell you your battery condition.



Sure! It's the old story!

You can hardly keep up with daily checks, weekly checks, monthly checks, semi checks and full checks.

So what's gonna worry about hundreds of tests, tests and tests.

Once they're on there, they're ON.

Tain't necessarily so, though.

PMDC *Professional Maintenance in Dark Corners*

Take a U.S. Thomas King K-18 unit mounted on a 7-1/2-ton refrigerator van. One hit the deadline a while back 'cause a radiator fan got loose—and stayed loose.

As it struck, a drive pulley got sheared up. It kept rubbing against the wood-ruff key.



Go to Uncle Sam: Flimsy nuts and bolts of repair that could've been avoided.

Now that you're making like a double-jointed freak in a mechanical side show, you're in such an oil can pain.



on some M16, M16 or other QM gear—or anything—put a finger or two on everything in reach.

Those dark windows seldom surround windows need—the light of perceptive maintenance.

Yet an extra bulb from one's car don't match a light bulb can mean the big difference between handshakes and smooth sailing' later on.

Flush in your gas?

Naturally you've always drained your gas tanks to clear the sediment and water in your B-service. "If evidence of contamination exists" talks it says in the TM. But as you know, a flooded-up gas tank or gas pump can give you beer-cup water in your gas tank almost any time.

If you're driving an M16, or other 2½-ton G-741 vehicle, water inside tank will swell up the paper laminations of your fuel filter and choke off all flow, tank gas and water.

Suppose this happens to you on the road, and there's no way to a nearby service around. You're gonna get back to camp, so here's what to do:



This'll let your pump draw enough unfiltered gasoline to get you home,

where, of course, you take out the milk and dry out the filter for re-use.

One thing for sure—never do this if you spot oil or other junk floating around in the gasoline. If you do, you'll damage the fuel pump, lines and carburetor. Guess you'll just have to hitch-hike.

Canvas covers 'em like THERM-LOC caps and you'll help yourself avoid getting in a spot like this.

Stuff of life

Five nights are colder than a linker whose dough sagged all the way to the ground.



Happens, though, when the batteries on those 30-POW battery machines figure they're overdone. The batteries crank up like a milk bus... usually when the trailer is headed along the trail... and the whole works take a nosedive.

MFW 10-10004-1 (18 Apr 71) has the recipe to keep everybody happy. It calls for a new handling wheel and bearings that'll handle and crumple. Applies to both the battery area and the dough mixing and makeup rollers. The boys in the shop will be propping you. That MFW's report.

Beat the heat

Long handles and door rub plates are making back out of the ribs common on the 30W and M30AL Jeps.



The rub plates are a main one that'll do the top and bottom, so the door handles go past the plates and scrape against the curved edge of the machine.



Beats out this rough situation by making new plates from a piece of thin (about 21 gage) scrap steel. Just cut one double measuring Nix's 7 inches—odd shape 'em like the old plates.

Then punch three holes in each new plate to take Nix's rubber from items 100M 51-20-001-101-11 or any the-kind No. 30 machine screw.



The new rub plates will cover the wear spots left by the door handles on the door-panels. A dab of OD paint will cover the new plates.



Door caps



Okay—that's the way it is when they get into the distribution of your Model 480 Chevy pickups and Model 480 1½-ton GMC stake-bed-platform trucks. And it's been happening, especially in those blow-down areas.

So, it's been figured that it's time to catch this stuff before it moves in on your distributor and starts grinding. Which all means your Oldsmobile cap-pott unit can get you some door caps from the local dealer.

These caps go under GMC part number 1381150.

The Solution

Way it is now, when you unlock the hood on those 2½-ton Model 480 stake-bed platform jobs, you can scratch the dirt out of your hand—way over your hand.



Seems that the top member of the radiator grill (that rusty stuff) is so slanted that it makes for a real close fit for the hand to get in. When you take your hand away after extracting the hood latch, it's easy to cut it on the sharp side of the work.



Just so there can't be any more that slip-guy road, there has proved fit and most of the member of the 1) good and smooth.

If you find that your big paw can't fit into this small opening without being scraped, get in a LIEB (OAS Form 486) and maybe you'll be allowed to cut out the top member, so you can get it the whole.

BEFORE THEY GET HERE

BE YOUR OWN INSPECTOR On The M343 Dodge



*Have our seven pointers aimed to help relieve the painful surprise before an inspection of your drive. If any of these conditions exist on your M343, you won't have to worry about surprises. You'll know you're going to get jigged.

*Course, if you're a real shrewd operator, you can stage up the equipment before the inspection starts. Then you can relax, forget about the surprise—and the gas. Consider—intelligently, they call it.



90000-0000—Insure the world before its capital, demand maximum of profit, every penny



90000-0000—Insure every and splain fronts—insure for a profit



90000-0000—Oil for every and oil splain oil—insure for a profit
90000-0000—oil, splain



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every



90000-0000—oil and splain oil, splain for every

90000-0000—oil and splain oil, splain for every

And don't forget—there are major deficiencies and minor deficiencies. The major ones here—those that make it unsafe and down-right dangerous to operate—our charts in **YELLOW**



20 TO 24 I. CIP. 2001
CRANK—the main shaft
 and main shaft gears
 should have $\frac{1}{4}$ " slack at
 the middle



2000 I.P. low speed—the
CRANK—the main shaft
 should have three-quarters
 full



CRANK—the main shaft
 should have three-quarters
 full



CRANK—the main shaft
 should have three-quarters
 full

CRANK—the main shaft
 should have three-quarters
 full



CRANK—the main shaft
 should have three-quarters
 full



CRANK—the main shaft
 should have three-quarters
 full



CRANK—the main shaft
 should have three-quarters
 full

JOE'S DOPE

PM FOR A WINNER



Can my baby
win a race
or just come
out looking like
an exhausted
animal?

My goodness... look
at that horse... not
of the same size breed
& color as the other
to race. You must
be the best. You
must win the
race.



Oh...
I'm
not...

You can't win
because you
won't get a
good start...
I'm sorry,
but you can't
win. You
must win
the race.



Oh... I'm
not... I
won't get
a good
start...
I'm sorry,
but you
can't win.
You must
win the
race.

Oh...
I'm
not...



Oh...
I'm
not...
I won't
get a
good
start...
I'm sorry,
but you
can't win.
You must
win the
race.

You can't win
because you
won't get a
good start...
I'm sorry,
but you
can't win.
You must
win the
race.

Oh...
I'm
not...



You can't win
because you
won't get a
good start...
I'm sorry,
but you
can't win.
You must
win the
race.



WHEN YOU (YOU AND I) ARE A BIT OF TIGHTER AND A GENERATOR BEING ON THE LINE AT THE RIGHT TIME IS A BIT OF TIGHTER FOR THE LINE. ... THE EXAMPLE:

TOO TIGHT

... BUT WHEN YOU ARE TOO TIGHT, YOU TOO MUCH PRESSURE ON THE BELTS. ... GET OUT OF THE LINE TOO SOON.



TOO LOOSE

... THE THE BELT IS FEELING AS A TIGHT. ... THE BELT IS FEELING AS A TIGHT. ... THE BELT IS FEELING AS A TIGHT.



OVERLOADING

WHEN A BELT IS FEELING TOO MUCH IT'S GET OUT OF THE LINE. ... IT'S GETTING A BIT OF TIGHT.



PULLEYS ... MUST

BE DAMAGED PULLEYS ARE USE DURING ON A
HEAVY TRAIL ... KNOW & YOU'LL BE HELD TO
LATER THE PULLEY, CORRECT TRAIL IN THE 10-15-
100' & BUCKS HARNES IN A GOOD WELT ...



KNOW A CASE OF GEAR ALIGNMENT



SOMETIMES YOU MAY A CASE OF

DAMAGED PULLEYS.

KNOW THAT YOU CAN GET THE
PULLEY TO LAST TO 10-15-100'



KNOW THE PULLEY GROOVE WEAR

KNOW THE PULLEY GROOVE WEAR
MAY BE CAUSED BY THE
BUSH ACTION?



KNOW THAT THERE ARE
TWO WAYS TO USE THE PULLEY
KNOW WHAT I MEAN ...

KNOW THE WAY TO
USE THE PULLEY

KNOW THE WAY TO
USE THE PULLEY

THE
PULLEY
MAY BE
CAUSED BY
THE
BUSH



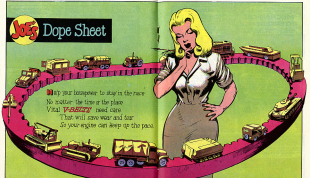
SHINY GROOVES STILL THREATEN

A THIN
SHINY GROOVE
CAN BE
CAUSED BY
THE
BUSH



A circular logo with the word "Joe's" in a stylized, red, outlined font.

Dope Sheet

A woman with blonde hair, wearing a white short-sleeved blouse and a grey skirt, stands in the center of a circular track. She has her hands clasped near her face, looking down at the track. The track is a thick, pinkish-red band with various toy cars and trucks on it. The background is a solid light green color.

Help your horsepower to stay in the race
No matter the time or the place
Vital **V-8000** need care
That will save wear and tear
So your engine can keep up the pace.

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

ALREADY
JERRY'S GUN WILL DO,
**MECHANICAL
INTERFERENCE**

MAKES IT TOUGH TO BOOT UP
A HORSE INTO THE BELT THE
BEST WAY TO DETECT



FOR EXAMPLE

THE HORSE WOULD BE
THE BEST WAY TO DETECT
THE BELT THE BEST WAY
TO DETECT THE BELT



WHETHER... IT'S THE HORSE
OR THE BELT... IT'S THE
HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S



A HORSE... IT'S THE HORSE
OR THE BELT... IT'S THE
HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S



BELT... IT'S THE HORSE
OR THE BELT... IT'S THE
HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S



STORAGE

... FROM THE HORSE
IT'S THE HORSE TOO ...

THE HORSE... IT'S THE HORSE
OR THE BELT... IT'S THE
HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S
THE HORSE OR THE BELT... IT'S





WAS IT MY FEET
STUCK IN A HORSE
VERY PLACE?

NO! NO!

Not in place for
the



Keep... at least...
the table clean
and shiny.



THE SMALLER YOU
ARE, THE MORE
EASIER IT IS TO
CLEAN. YOU CAN
REACH THE TOP
OF THE DOOR
EASILY. THE
LARGER YOU ARE,
THE HARDER
YOU CAN CLEAN.

CLEANING



REMEMBER THAT I
WAS HERE AND I
WAS CLEANING
THE HORSE.



DO IT LIKE THIS...
IN AND
OUT.



DO IT THIS WAY...
DO IT THIS WAY...
DO IT THIS WAY...
DO IT THIS WAY...

APPEARANCE



REMEMBER THE
COLORS OF THE
HORSE... A
HORSE'S COLOR
IS VERY IMPORTANT.
IT IS THE
COLOR OF THE
HORSE'S SKIN.
IT IS THE
COLOR OF THE
HORSE'S HAIR.



REMEMBER THE
COLOR OF THE
HORSE... IT IS
VERY IMPORTANT.
IT IS THE
COLOR OF THE
HORSE'S SKIN.
IT IS THE
COLOR OF THE
HORSE'S HAIR.



AND SO, BACK IN THE CAR...



YOU NEED
TIGHTENING

YOUR BELT-TENSION METHOD

YOU NEED
THE TIGHTER

IT MAKES V-BELT CARE ALMOST NICE

Here's a real handy chart that makes it a cinch to spot the wear and tear on the V-belts in your rig. Whether it's a drive belt on a stationary compressor or a fan belt on a 110-volt truck, a few minutes spent checking it now and then will be your guarantee that it'll do the job.

This guide will clear you of any trouble and tell you what to do about it.

CHECK 'EM OUT YOURSELF... BY THE WAY

V-BELT PERFORMANCE CHART

LOOK FOR—	IT'S CAUSED BY—	FIX IT BY—
V-Belt Slipping 	Not Enough Tension Overloaded Drive Pulleys Worn V-belt Wiggy Drive Belt	Increase Tension Using Right Belt Using A-Belt Instead Wiping It Clean
Cracked Belt 	Belt Slipping Too Much Heat	Increase Tension Proper Ventilation, Cooling Belt Guards
Belt Twisting In Groove 	Belts Don't Fit Belt Overloaded Drive	Using New Belt Using Right Belt
Right Belt Worn 	Belt Put On Incorrectly Smaller Than Right Worn-out Belts On Set Overloaded Drive	Using New Belt Right Adjusting Tension Replacing With Matched Set Using Right Belt
Slip Pulley Groove Belts 	Belt Believes In Groove, Worn Pulley	Installing New Belt, or Reving Pulley Replaced
Worn Pulley 	Worn Pulley Smooth	Reving Pulley Replaced
Pulley Wobble 	Loose Shaft, Worn Bearing, Improper Installation	Reving Belts Corrected, Pulley Re-installed
Overused Pulley 	Chipped, Bent Pulley	Reving Pulley Replaced
Flaking Belts 	Belt Rubbing Guard	Checking Belt Guard Clearance
V-Belt Spool 	Overloaded Belt Not Enough Tension	Using Right Belt Increasing Tension

QUESTION AND ANSWER DEPARTMENT

WHY DOES
THAT IT HAPPY
FOR THEM TO
GET TO A MAJOR
CONVENTION?

THE
ENGINEER
SAYS THAT
THEY WOULD
LIKE TO BE
A MAJOR!

A NO-GO SNOWO

Dear Sgt. Dwyer,

Our truck-mounted rotary snow blower runs fine except for one thing—it won't clear snow out of the chute. The chute gets packed solid in no time and we have to pull the chute out with a shovel.

The plow's complete manufacturer's name plate shows Snow Blower, GFD, Serial Number 145. It's equipped as a Ford flat truck and it's powered by a 6-cylinder International engine with P-dash drive.

Got any idea on how we can get it working right before the snow comes again?

Mr. W. C.

Dear Mr. W. C.

That plow will shove snow—wet or dry—about 120 feet when she's working right. But to get that kind of action you've got to have the plow's engine running at 1800 RPM.

To find out how to run her up to get 1800 RPM, you'll need the manufacturer's manual. They're the only ones available on the blower. Repetition: You through regular repair parts supply channels the same way you would non-worked type repair parts.

Say on the repetition that you want an operator's manual, a maintenance instruction manual, and a parts book. Include the make, model and serial number of your blower.

This procedure goes for any equipment that has no official Engineer publications. Better get hold of those manufacturer's parts right away. They'll help you keep the snow on the go.



Sgt. Dwyer

WHAT'S IT?

Dear Half-Asst,

What's the deal on the accelerator stop screw on the STM from truck, which is called about only on page 273 of TMS-RCM? Does it screw down to the a certain depth? Does it need any kind of adjustment? The TM doesn't say.

Cpl F. L. W.

Dear Cpl F.L.W.,

That pedal stop screw (PN 1584-238-1041) doesn't need any adjustment. The threads on the screw are for identification purposes only. Any thread adjustment that's needed is made with the thread linkage. So, don't mess with it, and it won't mess with you.



Half-Asst



PIN POINTS

Dear Canale,

We were thinking a while back on the best way to drive a new pin. Some folks say the pin should be pounded into the ground so the top of it points away from the camera. I go along with the guys who say it should either be vertical or with the top angled toward the tent.

What's the right answer?

SFC C. L. B.

Dear Sgt C. L. B.,

The big thing we want in our pitching is slack in the guy line. It's got to be tight enough to do a hitching job . . . but slack enough to handle shrinkage when rain and snow start falling.

Which brings me to the pins. While they should be secure enough on hitching things down, we need to create things. Better they should "give" a little than have the canvas get a piece or two.

A pin will tend to pull out a little if its top is pointed toward the tent. It shouldn't come all the way out . . . just enough to ease the strain on the canvas.

As a rule of thumb, drive the shorter pins straight up and down and the long ones with their tips pointed toward the tent. Keeping it close to the lines, though, should just about get rid of the danger of too-tight guy lines.

SLACK
IS KEY

SHORT PIN -
SHOULD UP

LONG PIN -
SHOULD TOWARD
TENT



CLASSY NYLONS

Dear Hal/Mat,

Can you tell me why we're having so much trouble with the M28417 tires (P/N 263411-00N) on our H200 and M100 transporters? It's been damn hard to run these tires. Most tires are starting to look like this tire.

CWO L. J. M.



THE PROBLEM FOR THESE TIRE IS NOT ONLY THE WAY WE USE THEM BUT ALSO THE WAY WE STORE THEM. LEAVE 'EM UPRIGHT!



Dear CWO L. J. M.,

You're not the only one, Sir. There's been loads of trouble with these tires since they hit the field. That's why Goodyear has come out with a new, better tire for these transporters, called MFCO (M28-004-010) (P/N 263411).

Your new tires are 24-ply steel nylon instead of the 20-ply steel copolymer you now have on your trucks. They go under ESN 2018-000-004, and were put into being by TR 8-0001 (CWO Det 10), which also gives a lot of good info on the use of these nylons.

Of course, there's no guarantee you'll get these new tires as soon as you order them—which means you'll have to make those old-style ones do for a while. A lot of those old ones have been going to pot because gaps have been bleeding them when they're hot.

You see, the air pressure for these nylons is 70 PSI when the tires are cold. When they get hot, they build up to as much as 110 PSI, which makes a lot of gaps mean. So, what do they do?

They start draining the pressure from these tires and bring them back to around 70 PSI, which is about the worst thing you can do for any tire. That added air pressure is built up by a tire because of heat coming from road friction. The tire swells a little, or flows. When you bleed her, she flows some more. Plus, her, her—until the excess is used and the temperature is way up there and then it's off!

So, the best thing to do is check these tires right when they're cold. Then, leave 'em be.



FORM PROTECTOR

Dear Comd.,

Your gals tell us that a form stays in better shape if it is well wrapped up. So we've worked out a sort of "envelope" for the forms in our vehicle glass compartments. This envelope was run up by our upholstery shop, and equipped with a snap fastener.

Whenever the FM, LD, DD, etc., accident report forms and so on is out at all times. This keeps the forms and manuals clean and unscrabbled, and the envelope is easy to remove when washing or fueling the vehicle. Also, an extra envelope is made a safe place for snap maps and special orders, etc.

CWO D. E.

Dear CWO D. E.,

It's OK, and here about the plastic bags that are being widely used on wrap commercial items? They're tough, you can see through them, and they're easy to look on to.

MISS - NAME!

Dear Staff Sgt.,

Just got two from, I think, M113 Coordinators, Sarge. One our truck tractor—the M113 tractor—but can't seem to handle them. Starts every time we make a sharp turn, the tractor's just put into the truck's rear motor line.

What's coming, Sarge—a different tractor to handle the M113 or an M113? Maj P. L. Y.



Dear Maj P. L. Y.,

Right. There's already been a couple of tractors made to handle the M113—and neither of 'em is the M113 tractor.

The tractor I'm talking about are the M113 and M113 tractor truck tractor (M113 tractor). They're the only ones that should be used to run the M113. The M113 is built to take the M113 tractor, only.

MISS - NAME!



NIX ON OHC

Dear Half-Mast,

It's (or just) been found some M17 and propelled downers. There was some kind of fluid in the brake system when we got 'em, and the brakes worked all right. But the minute we added OHC to make up leaks, they jammed up on us.

What's in 'em, and what caused the jam-up?

Capt. B. F. M.

Dear Capt. B.F.M.,

Your boys goofed twice. First when they ran those vehicles without depressing the brakes, and next when they added OHC to a brake system.

When your vehicles are issued look for a little tag (DA Form 5-3) wired to the steering yoke or stored in the map compartment. This tag will tell you if your brake system was preserved according to the old SB 3-4, para 3 with M2-P-12000, preservative fluid. It will also tell you . . .



All this means is that a mixture of motor oil and alcohol has been put into the system to preserve it.

Now if you find one of these tags, pump-out all you can of this fluid and fill the system with hydraulic brake fluid, MIL-spec. FV-B-62 is. This is the new power boost-brake fluid.

Use OHC or any other petroleum base oil and you'll hose-up the standard rubber seals and cups in the system.

That must have been what happened to your vehicles. They'll have to be cleaned out completely and new cups installed. Then you fill 'em with fluid, MIL (or MRA, depending on temperature range) only.



FLAPPER FLAP

Dear Sgt. Brown:

Those new safety lowering valves for the Mills jet are giving us installation problems. They seem to be as simple as one-two-three to install, but some of the boys get them in backwards. We've also found that in some jets the new valve cuts down pressure so much that the old lowering valve doesn't operate at the right lowering speed.

Sgt B. J. A.

Dear Sgt B. J. A.:

There's one big thing to remember when you install that new safety lowering valve: **Makes sure the free flow of oil is toward the main cylinder.** There are two ways of checking on that:

1. Make the arrow on the valve toward the main cylinder. If the valve's installed right, the main cylinder will be on your right as you look at the arrow. Don't get confused by drawing M-4024, which has installation instructions. It shows an arrow pointing toward the main cylinder with the cylinder at your left.



TOWARD
MAIN CYLINDER



2. If you make your test, stick your hand in the valve and feel the flapper before installing the valve. When you push your hand through the valve toward the main cylinder, the flap you should raise toward, when it won't resist the flow of oil in the cylinder open up. That gives you free flow toward the main cylinder.

ONLY FROM
MAIN CYLINDER



3. After you push your hand through the valve, keep that the main cylinder, the flapper should not. That means when the direction is going down, oil will have to flow through the main valve in the flapper.

If the new safety valve cuts down on 3-4 valve pressure too much and makes lowering too slow, take the top plate off the safety lowering valve and pull out the flapper. There's no reason there, because there's only one way to take the flapper out and put it back in, but don't take the flapper out unless it's really necessary—with it taken out, you're right back where you were in the beginning—no safety valve. But hang onto that flapper—you'll be hearing about a modification to fix that slow lowering.

Sgt. Dwyer

How to solve the puzzle of it . . .

LEAK IN YOUR RIX



A leak in your Rix's capping compressor that can't be found is a real puzzle to figure out. It's often as dangerous as trying to figure out how to beat a tiger in a canyon cage.

If 3500 PSI of air breaks loose, it'll take you just about anything in its way.

The puzzle of how to trace down a leak is solved in the chart below.

To test for leaks, open the service line hose valve and pressurize the system to 3000 PSI. Then use the chart. Remember: Bleed the whole system between each valve check.

PSI CHECK VALVE NO.	PLACE VALVES IN THIS POSITION:								NOSE BLEED	IF IT'S LEAKING, THE SUPPLY
	1	2	3	4	5	6	7	8		
1	C	C	L	C	C	C	C	C	1	NO LEAKS FROM THE SERVICE HOSE VALVE
2	C	C	L	R	C	C	C	C	1	NO LEAKS FROM THE SERVICE HOSE VALVE
3	R	C	L	C	C	C	C	C	1	NO LEAKS FROM THE SERVICE HOSE VALVE
4	C	L	L	C	C	C	C	C	1	NO LEAKS FROM THE SERVICE HOSE VALVE
5	R	C	L	C	C	C	C	R	1	NO LEAKS FROM BACKFLOW DEVICE
6	C	L	L	C	C	L	C	C	1	NO LEAKS FROM BACKFLOW DEVICE
7	R	L	L	C	C	C	C	C	1	NO LEAKS FROM THE SERVICE HOSE VALVE
8	C	L	L	C	C	C	C	C	1	NO LEAKS FROM DISTRIBUTION CENTER IN R
9	R	C	L	C	C	C	C	C	1	NO LEAKS FROM THE SERVICE HOSE VALVE

3500-PSI RIX

3500-PSI RIX

When it comes to repairing your Rix compressor, be careful. TM 3-5096-1000y did authorize the user to make some repairs. But even if you're authorized, be sure you have the right parts, the right tools, and the know-how.

First-time, field maintenance boys overhauling Rixes in the shop have found ordinary maintenance supplies on the compressor instead of the heavy pipe nipples that're supposed to be used. Some guys figured pipe nipples was nipples and got the wrong kind on.



Another thing: When you take off high-pressure compression fittings, tubes, or nuts, don't put 'em back on the compressor. Use new stuff.

When you're working with 3000 PSI, you're gotta have control on the big winner in a pulser game on his way home.

Any time you're fixing anything on your Rix, ask yourself these questions. The answers are in the TM, the log RIX, and you.



Course, these rules apply to all repair jobs on all equipment. But they're more important than ever on something that can get dangerous as a 3000-PSI air-compressor.

If you get a "no" answer to any of the questions, call in field maintenance to do the job for you. Better safe than sorry . . . better to fill out a work order than an accident report.

Get a Bulletin

GET IT IN QUICK

You're a Copeland user?
Own a Bulletin Model 80 generator?

Then, quick like, take a look at that generator to see if it needs modifying. Here's why—

There are some stray generators around that're looking for the modifications. And the only one who can modify 'em is the guy who built the generator—the manufacturer.

Most units have a replacement on hand so it's not like being without a generator when the other is sent back for modifying. And, if you don't have a replacement around, keep this address in mind.

Continuing General
Electric Original
Bulletin, 1000
APR, 1970-77

Bulletin's generators heat getting the replacement off to you.

Your Customer office takes care of things if you're outside—the 2000 Company if you're overseas.

It's easy enough to tell which generators need modifying. They do if they have any of these serial numbers:



UNIT MUST REMAIN
INSPIRATIVE
FOR 10 MINUTES
AFTER SHUTDOWN



You can spot a modified generator real quick by looking at the front panel. You'll see a digital read: "Unit must remain inspirative for 10 minutes after shutdown". That's a dead giveaway.

DOUBLE CLUTCH DOUBLE TALK

Dear Hal's-Max,

We've just received our new M37 1 1/2-ton tractor. TM 9-4092 says in paragraph 45 f that "double-clutching is necessary to bring the speed of transmission parts into synchronization so the shift can be made without shock ..."

A gunnery sergeant here who can do it, but he can't seem to get it across to I can do it, too. Can you explain how to do this, but I'm having a little trouble understanding just how you would do it. Can you explain double-clutching to me? We've got an old sergeant here who can do it, but he can't seem to get it across to I can do it, too.

MIC E. D. B.



Dear MIC E. D. B.,

By golly, you're right. Double-clutching is going to be a lost art in the Army. On occasions the only places you see it now-a-days are on the 1-ton truck transfer cars and the transmissions of the M35s and some few extra heavy special vehicles. As you've found out, it's easy to do, but very hard to explain. But I'll be happy to try.

To start with, you know that your transmission is a means of changing the ratio between your engine speed and your road speed. As you go from low gear up to high, you're getting a higher road speed for the same engine speed. Also, as you shift down the gears from high to low, you are getting a higher engine speed for the same road speed.

You get these different speeds by shifting different sets of gears into mesh inside the transmission. If we can see the speeds of these gears so that the same number of teeth get second and going past a given point, they'll slip into mesh nice and quietly. But if we have a whole lot of teeth on one gear trying to fit past which just a few on the other gear go by, the teeth will clash when we shift. This meshing box of noise, keeps the gears from meshing, and can wear up the transmission if you pull too hard on the gearshift.

Double-clutching is a way to adjust these speeds so the gears mesh quietly and efficiently.

HERE'S HOW IT'S DONE



Taking it from the start, you shift into low and engage your clutch, coming down on your gas pedal to ease your truck rolling. You pick up speed in low until you are ready to shift to second. **Now work this closely.**

UPSHIFTING

1. Release clutch—let up gas—Shift to second.



2. Clutch pedal up—Foot off gas—Clutch is neutral. Engine drag slows gear, to revitalize.



3. Release clutch—let up gas—Shift to second.



4. Clutch pedal up—Foot to gas and coast until it you pick up the foot.



The same procedure is used on each upshift as you go up to high or overdrive as the case may be. Each time you let up on the throttle between shifts to allow the engine to slow down the gears to proper working speeds. Make your shifts with a smooth easy pull, not a sudden jerk.

DOWNSHIFTING

As soon as you are rolling in high, with a loaded track, and you approach an upgrade, its your speed falls off you prepare to shift down to the next lower gear.

1. Depress clutch—Foot off gas—Shift to neutral. (Shift to neutral)



2. Clutch pedal up—Gas on gas—Down in neutral. Higher speeds up transmission input gear so they'll mesh in the next lower gear.



3. Depress clutch—Less gas—Shift down. (Neutral to fourth)



4. Clutch pedal up—Read 'em gas, and now time up hill—Down in fourth.



If the hill is steep and your load is heavy, you make additional downshifts in the same way, accelerating the gears between each shift for quiet shifting, until you find a gear in which you are no longer losing speed. In other words, a gear low enough to take you over the top.

That's how it's done, so double talk about it. One other place you will find this technique very helpful is when rolling with a load and approaching a down-grade. In this case, you show your truck down yourself by closing the throttle, before you start down the grade, then you downshift's come as before. If a grade is a steep one and your vehicle is loaded, STOP, shift into low gear and if necessary shift your transfer to low range before going down.

You may have to downshift two or more gears to find the gear in which you can go down the grade without racing your engine or loading your brakes. You want the gear in which you can control your speed with those applications of the brakes, pinning them on at low 'em so you have smoothness, and will not over-speed your engine. Generally this will be about the same gear you'd use to come up that hill with the same load.



WHY HAVE LEAKS?



Up to now, tankers, you've been putting OE in the suspension of your M10-series tanks, the M101 tank, the M1T heavy-duty tank and the M11 tank recovery vehicle. Well, MWO-Cdn G-7006 (15 Aug 57) has changed all that.

This MWO tells you how to put grease fittings in the compensating ether wheels and hubs of these vehicles. When you get these fittings in there, you'll stop using OE and you'll be with GAA Amendment 3.

To get to where you can use GAA, which'll stop all leaks, you have to remove the pipe plugs in these wheels. Then, like the MWO says, get yourself either a 1/4 in. pipe bushing (FSN 4730-141-9000) or a 1/4 in. pipe bushing (FSN 4730-183-0007), depending on what size that plug hole happens to be. Now, get a 1/4 in. NPT steel tube fitting (FSN 4730-270-0000) — and screw the bushing and fitting together.

Screw the threaded end of the fitting into the pipe plug hole—until most of it's gone away with GAA Amendment 3. (Keep GAA Amendment 1 and 2 too). Stop when the wheel's like any more.

Now, here's some added info. If you had those seals leak the wheels and hubs set out bobbing up because they've been blown out by grease pressure, you can get yourself a 1/4 27NPT, 1 in. SPIE tube fitting (FSN 4730-150-0011). This fitting has a pressure relief valve right in it, so you won't have to worry about ruptured seals. Just screw it right into the bushing.

One more bit of info—you may find that as you roll over rough ground those grease fittings break off. If so, just unscrew the grease fitting after lubing and put the pipe plug back in.

This way you need only use grease fitting and one bushing, which you can keep in a safe spot in your vehicle. Then, when you're ready to lube, go right down the line, unscrew the pipe plug, put the bushing and grease fitting on, grease, unscrew the bushing and grease fitting, and screw the pipe plug back in. May be a little more work, but it's more info.



CONTRIBUTIONS



NEW USE FOR TIRED TIRES

Dear Editor,

Our Miles-A-Jar outfit has run into the problem of胎 wear on the front-brake liner used on the brakes of some fuel service elevators, hoist assemblies and hydraulic test stands. The liner is made out of better material than we can buy... and there's no replacement in the supply system.



So, we set up our own supply line... and it's nothing more than old tires. We cut three pieces of rubber, about 4 inches in diameter, from the tire and had our support men stick each one on the brake.

W. Lee W. Case
A Day, 26th Street St.

SIMPLE FIX FOR WARNING KITS

Dear Editor,

AN 365-11 (24 365 55) pairs-42 type military passenger vehicles with certain specifications of over nine persons and cargo-carrying vehicles with rated capacities over 1 ton are to be equipped with highway warning kits when operating over public highways in the United States.

Para 43 says: "Kit, highway warning, vehicle type, Stock No. 99188... is approved as an item of issue on the basis provided in TA 35."

This kit is in short supply. It costs \$1.25. So, our motor pool made up one by using three reflectors (FSN 9804-209-1791), costing 21 cents each and a little welding rod, costing 12 cents. The reflector stands can be fabricated in a few minutes. Most flaps, 12 inches square, can be cut from a yard of red cloth, costing 40 cents.



Here are two types of reflector stands. The one on the right is the easiest to make, but the other has the advantage of being easier to store, because it can fold up. Also, the folding one has the reflector swing, making it much more stable when subjected to strong blasts of wind created by passing vehicles.

Also, these reflectors are expendable—no paperwork if one gets run over.

Major William C. Juchacz

Fort Monmouth, Arkansas

(Ed Note—Looks like that'll solve the problem of the cars when these kits aren't available. If you can't get the kit, your homemade folding type is the best to use.)

HEDGIN' THE EDGES

Dear Editor,

After a look-see at our M51 1-ton wrecker hydraulic lines recently, we noticed that some of these lines were chafing at their support brackets. Could lead to trouble if one of these lines suddenly gives.

What we thought up to fix this is simple. The chafing's caused by the lines rubbing against the sharp edges of the support brackets. All we did was replace all lines that were shot—and then we took some used 1-in. radius bar and put it around the support brackets. That'll help stop the bracket's sharp edges from doing their dirty work.

MOP Shop

Barlow Arsenal



(Ed Note—Good thought. But, there's another way to check that line chafing without using radius bars as a crutch. Make sure all lines and sharp edges are shot away. Then, when you go to tighten the hose-end couplings, make sure the hydraulic lines are so arranged on their supports so there can be no twisting when you tighten the couplings.)

FREEZING FLANGES

Dear Editor,

Like us, there may be some other un-
used exhaust shops who've had trouble
removing that rear axle shaft on the
Dodge-series 2½-ton trucks.

We had one man injured when that
shaft froze to the hub. He tried to bang
the thing out with a hammer. A steel
chip came flying off the hub flange on
which he was banging and went right
into his leg.

edges of the axle shaft flange lightly
with a ball peen hammer to crack and
free any corrosion there.



Now, if the thing still doesn't budge up,
insert a 1/2-in. cold chisel between the
shaft flange and the hub face and work
it.

This'll sure'll look break any corrosion
freeze there and free the shaft flange
from the hub flange.

Old Flange To keep those flanges from
recoiling and freezing, coat them with
Dex-G-L-D before you bolt them down—



This'll keep 'em from rusting and seizing,
another thing—give those hubs a
little Dex-G-L-D also, so you won't have any
trouble in that area either. Next time
you go to take that shaft out—whew—
7-22-68-1-63



This got us in thinking—and now,
after that kind of thought process, we've
had no trouble at all.

The first thing to do, of course, is
the part 172 of Td 9-8032 (Dex 94)
says: Remove the right rear axle hub



without touching the drive flange to
the hub. Then, up and withdraw the shaft
from the hub by pulling on the shaft
flange. But, if the axle shaft flange
freezes to the hub flange, tap the outer

Cornie Rodd's **BRIEFS**



Tip partridge

Most truckers can now arrange to have Delco-Remy put on a line for showing the MYF partridge and replace the partridge mount on the driver's hubcap cover with a partridge synchronization assembly. Urgent MYND ORD 6261-907 (8 July 1957) gives all the details.

It's got to fit

Here's a tip on installing the rubber muffler and top-deck grille of the M41 and M41A1 trucks. Make sure the alignment line up with the holes in the muffler—the heavy grille will not crush ribs on the lightweight album. The album will bend inward, and let floating oil-based grease escape through the opening. This brings bad news for the fire department.

Extreme point

No doubt about it... none at all. There's only one point to use for your acquisition reference volumes. It's Point, synthetic, semi-gloss, OD, 24x36, IS IT-C-3956, IS IT-E-109 (plus monthly PD44610, 297-8456, Big Truck No. 11-3476, 617, 108. Now getting one daily for OD, 'cause it's non-metallic. Any other OD is no-go 'cause it causes color reflection.

Powerless hole

The MYND-Ord 61-4701 (19 Aug 57), which tells you to drill 1/4-in. diameter holes through the lower and upper channels of your M-series vehicles for drainage, doesn't go for the G749-series T3; see trucks. These trucks don't have channels, so you just can't drill any holes there.

Check that bush

Might be a good idea if you M41 truckman keep a sharp eye peeled for rubber dust on the brush holder of your auxiliary engine generator when it's out of your truck... you'll be able to see it through the inspection hole. Too much of this dust will stop the brushes from making proper contact with the armature. And, good-bye! You won't get out.

Break it in

Have you seen TB Ord 617 (24 Jan 57) and its Change 1 (2 May 57) yet? It'll give you the low-down on installing, operating, maintaining and testing the electric brake kit that's supposed to go on all your M-series topical wheeled vehicles from the 2 1/2-ton level on up. If your truck is going to be used as a prime mover for a load equipped with electric brakes.

ALL THE **FACTS**, MAN...
ALL THE FACTS!



**GIVE ALL THE
INFORMATION
YOU CAN —**

WHAT AN IDENTITY CHECK
WILL OR FORM AND USED?

• Motor Year (Always
Why Here ...

• Owner Number

• Serial Number

Manufacturer

• Make

• Owner Supply
No.