

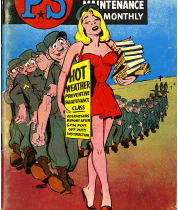
PS

THE
PREVENTIVE
MAINTENANCE
MONTHLY

Issue 32
1955 Series

HOT
WEATHER
PREVENTIVE
MAINTENANCE
CLASS

WE STRIKE AND
REPAIR AFTER
5 PM FROM
OFF-DUTY
INTRODUCTION



"A STITCH IN TIME SAVES

You know how it is with your pants—
if you don't fix a little hole with one
stitch today, tomorrow you may wind up
with the whole blue-eyed world looking
in.

And it's the same way with the "hole-
in-their" work you do on your machine,
back, truck or whatever you're got.

A little fixing today, some holes, strain-
ing, wear, affecting, costly operation



NINE"

—and you're get equipment that'll stick with you through thick and thin terrain. It'll work for you when the days are short and the trail gets rough. And it'll stay around a lot longer, too—lots longer than equipment that gets kicked, banged and pulled down.

Your equipment makes you work faster, sure. And one of these days you'll see how it pays off for you.



PS MAGAZINE

Volume No. 107

1969 Edition

Published by the Department of the Army for the information of occupational personnel and supply personnel. Information furnished through normal publication channels. When furnished at soldiers' and sergeants' request about their Personnel Maintenance Agency, Service Aerial Activities, Services.

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PS Magazine meets your ideas and needs better. And it's yours because you've provided the ideas for it. Write to: PS Magazine, Military Aerial Activities, New Army Center, Fort Monmouth, New Jersey 07830.

REGIONS OF INTEREST: A diagram showing the regions of interest for the magazine. The regions are: Americas, Europe, Africa, Asia, and Australia. The magazine is published by the Department of the Army for the information of occupational personnel and supply personnel. Information furnished through normal publication channels. When furnished at soldiers' and sergeants' request about their Personnel Maintenance Agency, Service Aerial Activities, Services.

WARRANT
YOUR
MACHINE



BABY THOSE



A ball or roller bearing is a carefully designed and finely built machine. Its parts are highly finished and precisely fitted to the last detail just like an expensive watch, but it's a rugged machine, built to take heavy loads. Your truck, tanks, guns roll on these little jewels.

As rugged as it is, a small amount of dirt, or the wrong kind of handling, will cause it to fail and maybe result in serious damage to other parts.

Unfortunately—and strangely enough—the most natural thing a fellow will do in handling a bearing is exactly wrong. How many times have you seen a guy pull a bearing out of a job and start spinning it with his greasy dirty hands? (Like a kid with a top.)

Then he looks it and says it's "rough", and checks it on the junk pile.



WHEEL
BEARING



WHEEL
BEARING

WHEEL
BEARING

BUY THE BARRIS BIRD BRAND,
BUT ON OLD BIRD BRAND.



BUY
THE
BARRIS

BEARINGS



That bearing never got the benefit of the doubt. Who knew? Maybe a couple of pieces of dirt or shavings fell into the bearing while the job was underway. In that case, the roughness was probably nothing more or less than a look of trust foisted in the face.

Before you remove the bearing from a shaft or even test it, wash the bearing in dry-cleaning solvent. Substituted oil is removed from the surface—the bearing gets a square deal.

Get in a bearing in position. Never test bearings on a dirty bench or floor, intending to clean them later. Or other cleaning—don't lay bearings aside uncovered, feeling that just because they were clean once they'll stay clean.

WASH BEARING AND THE SHAFT BEARING SURFACE WITH DRY-CLEANING SOLVENT.

WASH AND TEST.



WASH AND TEST.



WASH THE SHAFT SURFACE IN DRY-CLEANING SOLVENT.



DO NOT REMOVE BALLS OR ROLLER ELEMENTS FROM BEARING OR SHAFT—WASH IN DRY-CLEANING SOLVENT.



DO NOT WASH BEARING OR ROLLER ELEMENTS IN DRY-CLEANING SOLVENT FOR MORE THAN 10 MINUTES.



KEEP BEARINGS IN DRY-CLEANING SOLVENT FOR NO MORE THAN 10 MINUTES.



WASH BEARING IN DRY-CLEANING SOLVENT FOR NO MORE THAN 10 MINUTES. IF A BEARING MUST BE WASHED FOR LONGER THAN 10 MINUTES, TEST IN THE BEARING SOLUTION IMMEDIATELY AFTER WASHING.

BEARINGS DO NOT INCLUDE BEARING STEELS OR BEARINGS WITH LUBRICANTS OR OTHER MATERIALS ON THE SURFACE.



REMOVING BEARINGS

USE AN APPROPRIATE REMOVAL TOOL TO REMOVE BEARINGS FROM A SHAFT. ALWAYS USE THE CORRECT TOOL FOR THE JOB.

1
 HOLD THE TOOL
 AGAINST THE
 BEARING AND
 SHAFT.



2
 APPLY THE
 FORCE TO THE
 OUTER RING OF
 THE BEARING
 WITH THE TOOL.
 THE BEARING
 WILL BE
 REMOVED FROM
 THE SHAFT.
 ALWAYS USE
 THE CORRECT
 TOOL FOR THE
 JOB.

2
 ALWAYS WEAR
 PROTECTIVE
 GEARING WHEN
 REMOVING BEARINGS
 FROM A SHAFT.
 ALWAYS WEAR
 PROTECTIVE
 GEARING WHEN
 REMOVING BEARINGS
 FROM A SHAFT.



3
 ALWAYS WEAR
 PROTECTIVE
 GEARING WHEN
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 FROM A SHAFT.
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 ALWAYS WEAR
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 GEARING WHEN
 REMOVING BEARINGS
 FROM A SHAFT.

5
 ALWAYS WEAR PROTECTIVE GEARING WHEN
 REMOVING BEARINGS FROM A SHAFT.

CLEANING

REGULAR CLEANING HELPS YOUR RINGS STAY SHINY AND PROTECTS AGAINST UNWANTED DAMAGE. IF YOUR RING'S SET INCLUDES AN EMERALD OR A OTHER SOFTSTONE, USE THE CLEANING METHOD WITH CARE.

1. SOAK RINGS IN WARM, SOFT SOAP SOLUTION FOR 15 MINUTES TO LOOSEN UP GRIME. USE A BRUSH TO GENTLY SCRUB AWAY GRIME. RINSE WITH CLEAN WATER.



2. BRUSH AWAY GRIME AND GRIME ON DIAMOND AND OTHER STONES WITH A BRUSH. USE CLEAN WATER TO RINSE AWAY SOAP.

3. DRY RINGS IN WARM AIR. REMOVE EXCESS WATER BY WIPING AWAY WITH A CLEAN TOWEL. DO NOT USE A TOWEL TO DRY RINGS. PLACE IN A CLEAN, DRY PLACE.



4. STORE RINGS IN A CLEAN, DRY PLACE. DO NOT STORE IN A BAG OR BOX. DO NOT STORE IN A BAG OR BOX. DO NOT STORE IN A BAG OR BOX.

5. CLEAN RINGS IN CLEAN, WARM WATER. USE A BRUSH TO GENTLY SCRUB AWAY GRIME. RINSE WITH CLEAN WATER.



6. BRUSH AWAY GRIME AND GRIME ON DIAMOND AND OTHER STONES WITH A BRUSH. USE CLEAN WATER TO RINSE AWAY SOAP.

IF YOU HAVE A RING WITH AN EMERALD, OTHER SOFTSTONE OR OTHER STONE, USE CARE TO CLEAN IT. USE A BRUSH TO GENTLY SCRUB AWAY GRIME. RINSE WITH CLEAN WATER.

INSPECTION

After a bearing is washed clean, you've got to inspect it to find out if it's good enough to be used.

So much depends on "feel" when judging whether that same ball or roller really does the job. Run a little study and you'll make every man his own judge.

INSPECTING BALL BEARING



WASH THE OUTER RACE AS SHOWN IN FIG. 107. DO NOT USE GREASE. IF ANY GREASE IS ON A BALL, RUN A BRUSH OVER IT WITH LIGHT OIL. ALWAYS CHECK BALLS.

CHECK FOR BRUISES OR SCUFFS ON BALLS AND ROLLERS.

CHECK FOR CORROSION AND DISCOLORATION ON BALLS AND ROLLERS. WASH WITH LIGHT OIL.

ALWAYS USE RUBBER TIPS TO FEEL THE BALLS AND ROLLERS.

WASH THE BEARING HOLES AND INSPECT THEM.

HOW TO INSPECT BALL BEARING HOLES





THEY'VE GOT METAL CUTS OUT
OF THE RINGS OF THE
RING. THE RING IS THE
IN THE RING. THE RING IS THE
OF THE RING. THE RING IS THE
THE RING IS THE RING.

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LUBRICATION

KEEP YOUR EQUIPMENT IN
FLIGHT AND
SAVED ON
OIL.



KEEP YOUR
EQUIPMENT
FLYING AND
SAVED ON
OIL.



USE LUBRICATION TO
MAINTAIN THE
PERFORMANCE OF YOUR EQUIPMENT.
OIL IS THE KEY TO
SAFETY AND
EFFICIENCY.

GOOD
OIL

KEEP YOUR
EQUIPMENT
FLYING AND
SAVED ON
OIL.

KEEP YOUR
EQUIPMENT
FLYING AND
SAVED ON
OIL.

BEHIND THE CURTAINS IN
MONEY AND MONEY MAKING
PARTY FROM LONDON TO
NEW YORK.



THE MONEY MAKING



THEY'RE THE ONLY ONE
WHO'S



IN THE MIDDLE
OF THE MONEY
MAKING
PARTY, THE
MONEY MAKING
PARTY IS
THE ONLY ONE
WHO'S
THE ONLY ONE
WHO'S
THE ONLY ONE
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INSTALLING A BEARING

INSTALLATION OF A BEARING IS NOT THE REVERSE OF REMOVING ONE, BUT IN ADDITION INVOLVES SOME SPECIAL POINTS.

BEFORE ANY BEARING IS INSTALLED, THE SURFACE OF THE HOUSING MUST BE CLEANED AND THE BEARING MUST BE CLEANED AND DRYED. THE BEARING MUST BE CLEANED FROM BEARING REMOVAL OPERATIONS.

FORCING A COCKED BEARING INTO PLACE CAN RESULT IN DAMAGE AND STRESS TO BEARING CASE.

DON'T LET
 DEBRIS GET
 INTO THE
 BEARING. IF
 IT DOES,
 IT WILL
 CAUSE
 WEAR AND
 DAMAGE.

DON'T LET AN AIR HOSE BLOW DIRT
 BEARING ARE BEING INSTALLED. EVEN IF
 BEARINGS ARE COVERED WITH CLOTH OR
 PAPER, THE PARTICLES BLOWN INTO AIR
 CAN GET INTO BEARINGS.



DIRT HAS FOR LOCATING AND SQUARE
 UP BEARING SHOULD BE OF UNHARDENED
 DRILL ROD OR CHINA ROSSER STOCK WITH
 SOFTENING BUNDLES. HARDENED DIRT
 PIN WILL DAMAGE BIRD SURFACES. COPPER
 OR BRASS RIGHT FLARE AND GET INTO
 BEARING.



NEVER HAMMER DIRECTLY AGAINST RING.
 YOU'LL DAMAGE BEARING AND SPINDLES.
 FROM BEARING RING COULD DAMAGE EYES
 OR FACE. USEING HAMMER ON SEAL OR
 SHIELD WILL LOOSEN SEAL OR SHIELD.



STORAGE

Bearing manufacturers take the utmost care of all times to keep dirt of any kind from getting into bearings. They have oil filtering systems, dust-free rooms, they blow and bake their steel, doubly so! They're perfectly clean when you get them. So should we precautionary measures in the work room, too.

Bearings should be kept in a clean room that doesn't get too hot and where there isn't too much moisture. It is a dark room that is found or doing the possibility of rusting in paper. When kept in too warm a place, the lubricant coating the bearings can become fluid and work away from some of the surfaces. That's why they're usually open to rust when it's done.

When bearings are not used, or when they are used in a way that causes them to rust, they should be kept in a clean room. ... Bearings should be kept in a clean room.

When bearings are not used, or when they are used in a way that causes them to rust, they should be kept in a clean room. ... Bearings should be kept in a clean room.

If the bearing is not in use, it should be kept in a clean room. ... Bearings should be kept in a clean room.

If the bearing is not in use, it should be kept in a clean room. ... Bearings should be kept in a clean room.





JEFFERY BRUNARD HAS SHOWN
 US THE SECRETS OF THIS BOOK.
 CHECK THIS OUT YOURSELF.

NEVER USE BLENDED OR JET
 OILS. USE ONLY THE FINEST
 OILS.



IN RUNNING MACHINERY,
 USE:

CLEAN



CLEAN



CLEAN



NEVER USE PREHEAT OILS.
 —DON'T PUT OILS IN HOT
 OILS.

WITH EXCESSIVE OIL, FUEL,
 OIL WITH OIL AND FUEL,
 AND WITH PROPER LUBRICATION &
 BURNING OIL, YOU CAN SAVE
 OIL.



Connie Rodd's

"DON'T BE CARELESS!"

Millions of
Americans
are
using
this
method!



Towel method

Ever wonder whether you ought to leave your Midea tank's electric motor running all the time the gas tube's out of travel lock and your buggy's in operation?

Good question. There've been several failures reported on these motors when they've left running way long.

Shouldn't happen. But if it does happen in your outfit, be sure to steam through the LBO's. And don't forget to

include serial numbers of the faulty motor.

Meanwhile, just good common sense is your best guide for how long to run the motor. If you expect to be twisting the turns every two or three minutes—

DO NOT REMOVE MOTOR FROM UNIT
UNTIL IN SERVICE POSITION IS MADE.



leave it on. If you'd expect to twist for 15 minutes or more—start it off. If in doubt — when leaving, the instance — leave 'er go.

And—no keep it running, good as possible—make sure the vent grill is kept clear of jackets, rags, anything that'd restrict its free and easy breathing.

Distributors differ

EVERY so often you hear about an M15 or an M11 truck that has overloaded ignition switches. Everything looks perfect, but the won't run right. Could be somebody has put the wrong distributor into her by mistake. These trucks all use Delco-Remy distributors, and have enough alike that they can be confused.



It helps to remember this:
The M15 uses Delco Model 1111715,
(Old Stock No. G742-77150000)
The M11 uses Delco Model 1111501,
(Old Stock No. G744-7150100)
And these distributors are still being

changeable.

Plug for this

Large trailer-connection receptacles are on the marking end for trouble.



unless they're clean of dirt and ice. If you let such water gather in the plug's mounting ring, it won't run right. Some control vibrations, and they'll pop out of their sockets.

Connectors used to be made of die-cast metal. Which made them pretty fragile. But now they're steel and should stand up under normal handling. If any else, steel won't crack, and let a UIC—on the double.



Checked and plugged in right, they'll hold their own.

Save care for ballbeats

Some like some rollers and trailer vans with galvanized metal tops are showing up with bald spots because of OD standard. This causes the paint to flake and peel off, leaving such an unsightly mess that even your best friend will call you.

The solution, then, is just a matter of the right maintenance: this case phosphoric acid. You use the acid instead not just in three parts of water to clean the metal before you splash on the primer coat of paint. By the numbers it's this way:



For additional details on painting rust in your vehicle manual. That's TM 9-2811 on your dial.

Watch that hole

Here's something you (M41 and M41A1) jockeys can have done to save a lot of wear and tear on the old buggy. (Reference Serial Numbers below 11401.)

Put a glass rivet in each corner of the hole



which have on the floor below the slipping box to keep JMW's, shells and other undrilled waste from falling thru and wedging between the box and the turret basket floor. Saves a lot of damage to the turret.

You do it like this:



You'll see this information in a descriptive use of these days.

Hold your load—

Like the quick-release pins on your M19A1 gun carriage case equipped with a jaw hitch spring that's proving a little light for towing chores. To avoid dropping your load in the wrong place at the wrong time, better replace it with the heavier one now available.

Hook springs are found under Ord Stock No. G211-7647445—but they can be easily identified. The only job has a wire diameter of 1.14 inch, and 15 active coils; the new one's got a 1.02-in diameter and 17 active coils.



Case 7 should prefer a standard plate (medium duty) to the quick-disconnect set-up, it can be had. Use the Jack No. 02742-7748000.

Fifth wheel lock-up

All Oshkosh standard 8 1/2 wheels, such as those used on the 2-1/2-ton 6x6 and 3-ton 6x6 truck tractor, can be adjusted.



The adjusting is done with a couple of wedges between the rubber and the walking beam.

When you're rolling your rig on the highway, you drive the wedges all the



way in under the walking beam. This locks out the side rocking that you don't need on smooth roads.

When your job has to go on cross-country tops you pull the wedges back. This lets the vehicle flex and takes a lot of the stress and fatigue away from the trailer pin, so keep it from bending.

Windshield on the loose

A loose windshield that's bounced back and forth by the 100's of joggings and the whipping of the wind will crack up unless you do something quick. Sometimes the clamp that holds it to the instrument-panel's windshield-support can be adjusted to tighten it up. If you can't do—

And when the clamp's reached its end, you can add more adjustment. Just take the clamp off and tighten the bolts right there on the panel, with a nut and file. Then screw the clamp back and tighten up.



Or, if you can't do that, slip part of an old gasket under the windshield base and shove it behind it up. Cut off the gasket pieces where they stick into the cab for a neat job. Packing the space between the windshield and its support may be all she needs to be well cracked.

Why make a flap of your windshield when it's so easy to fix it so straight up and fly right?

FINAL DRIVES



Your M18's final drives have gotta be checked and filled weekly, and before operation. They get the same weight oil as goes in the main engine crankcase.

Fill 'em through the rear axle hole (Fig. 1), being in contact the hull. After allowed to work, the oil should be up level with the bottom of the hole—with your thumb-nail on level ground. *(Over.)*



At every other 100-hour service check (that's C¹ and C²) final drives should be checked and refilled.



When you're draining 'em through the bottom hole (Fig. 2)—check the main output plug and the oil for small particles. Any sizable amount of large metal chips'll mean the seals better be disassembled and looked into. But finding copper flakes in the oil just shows that the main's copper plating on the gear teeth is wearing 'in, like it oughta.

Make sure along every 700-hour drive plug both in place/good and snug.

Like's been pointed out before, grease into the two hubs (inside and out) between different final drive assemblies. They're moved by the main between and hold each together like Tom 'n Jerry. Some gear for the hull



gear and planet gear. When they gotta be replaced, see that it's done in pairs.

You'll find some seepage around these final drive main seals. But don't go fixin' them up unless there's excess seepage—or leakage.



And then always *don't* make sure it's not pressure buildup from a clogged breather that's causing the trouble. You think the breather won't (Fig. 14) just be reaching inside the ball and flapping along the top of the spindle—clogged valves.

Get a finger on the valve cap and see if it wiggles. It's gone loose first and may no longer admit the job-starting air through, keeping the rest. If it feels right, that'll mean it's probably clogged up—and oughtn't be allowed up.



WOTLAF WOLF TELLS US 'HAND-MADE'

Whenever you've got problems in maintaining your heavy equipment, give Old Wolf about the word on it. If it's trouble you've got, he'll lead you a hand. And he'll show us all the details when you've got an idea on better ways of maintaining equipment. And get down your problems on ideas on any of piece of paper and mail it off to Old Wolf-Head, c/o The Magazine, Boston Herald, Boston, N. E.

TENSION, PLEASE—

Dear Phil's Man,

It's a real pain a ruckus in our car. It's about adjusting track tension on our AWD tanks. Here are a couple of questions we hope you'll be able to clear up for us:

1. What are the adjustment limits on each of the track adjusting links?

2. When a track gets old and stretched sometimes you can't get enough tension by just extending the adjusting link. Can a track block be removed from one side—and not the other—without creating harm to the suspension? Or leading to one side?

Lo B. A. D.

Dear Lo B. A. D.,

Adjustment limits of those link-measured between opposing edges of the track-end (adjusting) nut and the link nut's sleeve—are: Maximum, 4 inches; minimum, 1/8 inches.



Stick to these limits and you prevent the link assembly—and your suspension. Go out past the 4 inches and you'll likely get wedged down between the adjusting nut and lower sleeve. Collapse is below 1/8 inch, and the O-ring gasket'll get foaled up on the lower sleeve adjusting nut flange.

In overall length, the left-hand link assembly is 3/16 inches shorter than the right-hand assembly. But the ad-



justment limits—and the measurement points—are the same for both sides.

You can take out a track block on just one side OK, without any harm to the suspension. And it shouldn't cause any leading—if the tension on both sides is adjusted properly. It's unequal track tension—not unequal track length—that'll put the drag on one side.

One thing to keep in mind when you take out a track block: Don't forget to run the adjusting link back near its minimum setting—to allow for the missing block—before you connect the track again.

Overlook this step and you'll have a hot trouble making each turn. How ever, based on some street-minded preferences (specifically demands of their former plug-ups) which realize all they need a track job—and never once think of collapsing that adjusting link.

Correct, when the track's back together, you'll adjust the link for the proper tension.

Phil's Man

JOE DOPE

TARP TIPS AND TOSSING



OH, MY!
I'M BEING
TOSSED TO A
FINE PLACE!



THEY'RE
FLAKING
ME!

IT HURT,
BUT IT
WASN'T
AS BAD
AS I
FEARED!



I JUST
COULDN'T
WAIT TO
TRY OUT
THIS
LATEST
FASHION!

LOOK AT
THAT!



WHAT'S
THIS?
THIS ISN'T
THE WAY
TO GET
TO THE
TOP OF
THE
MOUNTAIN!

I'M
DELIVERING
IT TO
YOU!



I'M
DELIVERING
A BIG
MESSAGE
TO YOU!

OH, MY!
BUT I'M
HEAVY!

LAY
OUT
TARP

1 FOLD ONE END OF TARP TO
FIRST ROW OF RINGS



2 FOLD OVER AGAIN
...AND ONCE MORE



3 FOLD END NEAREST
TO FIRST BEAM

4 OTHER END OF TARP...
THEN OVER AGAIN



PICK UP BLANKET
AT LEFT SIDE,
PUTTING ENDERS
IN EACH HAND
... HOLD IT
ONTO
TRUCK
FLOOR



5 FOLD OVER
AGAIN...
AND
AGAIN

6 WITH ONE END ATOP
THE OTHER... MARK WITH
CIRCLE IN BIG LETTERS



7 THEN UNFOLD OTHER END

8 UNFOLD ONE



3 FOLD OTHER SIDE OVER TO BUCKLES

4 FOLD AGAIN ... NOW SIDE UP!

5 FOLD THE 2 FOLDS OVER THE 2 FOLDS

ALL THE PLACES ARE BUCKLED AND IT'S DONE!

1 FOLD

2 FOLD

9 ON AHEAD OF COVER BOW

THIS SIDE IS FRONT

FRONT

10 UNFOLD ONE END OVER BOW



100 ... FROM THE OTHER

FRONT! AND THE COVER PROTECTS YOU FROM IT!





Dope Sheet



WE HAVE THE WORLD'S BEST EQU

Let it rain-let it pour-let it breeze
Let it fry-let it snow-let it freeze
Your equipment stays sharp
Neath a well-cared-for tarp
So protect those protecting O.D.s.



EQUIPMENT... *Take care of it*

BY BILL EGAN

BE YOU ABOUT
CARRYING TO
REPAIRS. YOU
WILL NEED A LOT
OF MATERIAL. YOU CAN
BEAT THE TIME
BY CARRYING.



FORWARD-TAP
LEAVE 1/2" OF OVER
TARP'S EDGE
BEHIND IT

MUDEN

STRETCH AND
PULL MATERIAL
TO CHECK FOR
SOFTING OR
WEAKENING

IF IT'S STILL STRONG
ENOUGH TO
REPAIR, USE
COMPOUND, TESTED
PRESERVATIVE,
OR STICK MO.
STUCKIES, GRA-21

BEFORE
WALKING
SCUR
OFF ALL
MUDEN

WALKING
SCUR
OFF ALL
MUDEN?



IT'S NOT STRONG
ENOUGH TO
REPAIR IT AND
USE WALK
SCUR



WALKING
SCUR
OFF ALL
MUDEN?
WALKING
SCUR
OFF ALL
MUDEN?

TENTS

SMALL TENTS — TURN
IN FOR REPAIRS BEFORE IT'S A
MADNESS JOB



CELLULOSE

CELLULOSE
CAN BE
SOLID
BONDING
CRACKS IT

GLASS
FIBER
PLASTIC
SHEET
CAN BE
FOILED

ICE-SNOW-WATER

KNOCK 'EM OFF
ICE LONGER WEAR



WARNING

DIVE OIL AND
DRENSE THE SOUL... SOAK WITH
SOAP AND WASH WATER



RINSE WITH CLEAR WATER...
DRY COMPLETELY BEFORE
FOLDING IT AWAY

TIPS

USE WITH
LUBRIFLATE,
WAX
CANOE OR
TENT FEAR OF
WATER PUMP
GREASE ...

KEEP THE
TENT
WATER...
WATER TO
WATER HIGH
WATER...



TENT

MAKE IT TIGHT
AND TIGHT...
IT SCORCHES,
WEARS AND
TEARS



TOO LOOSE...
IT FLAPS AND
EATS IN WIND

STORAGE

KEEP TENTS OUT OF
DAMP PLACES OR BATH ROOMS



SOFTEN PLATFORMS
A BIG HELP

SHAKE OUT AND AIR A FEW
HOURS EVERY FEW DAYS ...



CUTE DOWN
NEEDN
DO MORE
OPEN IN
TENTIVE

UNFOLDING AND KEEP
TM FROM SEALING

WELL, YOU KNOW
OUR HOUSE. EVERY
STRAYING CAT AND
DOG WOULD BE SHOOED
OUT THERE. NO
MISDEED LEFT!



HOT SUN
+
OUR
SUN
HOUSE
+
WIND
SOURCE
= CAT OF HOT



IS IT
SUNNY?



WELL, YOU KNOW
OUR HOUSE. EVERY
STRAYING CAT AND
DOG WOULD BE SHOOED
OUT THERE. NO
MISDEED LEFT!

WELL, YOU KNOW
OUR HOUSE. EVERY
STRAYING CAT AND
DOG WOULD BE SHOOED
OUT THERE. NO
MISDEED LEFT!



BOYING



WELL, YOU KNOW
OUR HOUSE. EVERY
STRAYING CAT AND
DOG WOULD BE SHOOED
OUT THERE. NO
MISDEED LEFT!

WELL, YOU KNOW
OUR HOUSE. EVERY
STRAYING CAT AND
DOG WOULD BE SHOOED
OUT THERE. NO
MISDEED LEFT!

VINE LA
DIFFERENCI!

It takes an airplane pilot's tricks to go—



FLOATING ON AIR

Maybe you're an aviator. The fact is, your wheeled vehicle pilots its way, jockeying around the same platform—air. And that's no fun at all.

It takes just the right amount of air to your tires for you to float with the grace of ease. With too much or too little, your vehicle, the tire casing, the vehicle's load, and you are going to get bounced, jiggled and jugged. None of you will last long.

Here's the latest info on the right amount of air, based on the heaviest loaded size (when loaded with highway and cross-country loads):

PRESSURE			
Maximum Load	Maximum Inflation Pressure	Low Speed	High Speed
1 1/2-ton load 2400 lbs. ax.	35 psi	25 psi	35 psi
1 1/4-ton load 1800 lbs. ax.	30 psi	20 psi	30 psi
2 1/2-ton load 11,000 lbs. total weight	35 psi	25 psi	35 psi
2 1/2-ton load 8000 lbs. total	30 psi	20 psi	30 psi
1-ton load 4,000 lbs. total	30 psi	20 psi	30 psi
3-ton load 10,000 lbs. total	35 psi	25 psi	35 psi

WHEN OPERATING

AT LOW PRESSURE

1. Be especially careful to read and note, then, just, before you'll see in use, what and not your tires appear like this:



2. If you let your vehicle carry any kind of load or drive fast, you may therefore go as low as:

- 2 psi on the 1 1/2-ton.
- 10 psi on the 1 1/4-ton, 2 1/2-ton singles, and 2-ton singles.
- 10 psi for the rear and 15 psi for the front on the 2 1/2-ton truck and 2-ton truck.





TAPER TOOL

Dear Half-Mast,

The boys have begged, now they're crying, and soon, I'm afraid they'll be demanding rials if I don't tell them how to get that valve clearance adjusting tool shown on page 117, paragraph 14 of TM 9-2194.



I'd like to know the stock number and manufacturer.

Eg. D. G. N.

Dear Eg. D. G. N.,

You can take that same old Oldsmobile Stock No. 41-T-5389-40 will get you that Tool, valve clearance, adjusting, w/3 sockets.

For your information, the following socket wrenches fit tool Old Stock No. 41-T-5389-40, 41-W-3007, 41-W-3009, 41-W-3011.

All together, the tool and socket wrenches come as a unit under Old Stock No. 41-T-5389-40.

This adjusting tool is going to be a must in every engine and we're required to maintain all the late motor vehicles in the continental region.

When you requisition it, order "Old Stock No. 41-T-5389-40 and valve clearance, adjusting, w/3 sockets."

Half-Mast

WHAT SAID GERRY

Dear Half-Mast,

Department of the Army Circular No. 1, dated 3 Jan 5111, authorizes all changes and 5000 miles or less, depending on driving conditions. Since this circular has expired, what is the current

directive on maintenance changes? If we are concerned primarily with automotive vehicles.

Capt. P. C. H.

Dear Capt. P. C. H.,

There should be no problem here. All your tube orders for army vehicles, except I/O's for combat vehicles dated before January 1951 should have been changed way back in 1944 to comply with this directive. So, your directive to change all every 1000 miles is your revised tube orders.

All tube orders dated before January 1951 should have this information plus the authority—see them.



It wasn't necessary to publish this circular again in 1952 or later years, if changes were made to all the old tube orders in 1951. If and when new tube orders are published they'll have this data and they'll be all the authority you need.

Very Truly Yours

TRIGGER-HOLDING PING

Dear Half-Brother,

Lots of the new trigger-holding ping (Dad dated No. 20520-1-10-1951 for the col. MARI) vehicles are being lost. It's



probably because they have no compression spring to hold them in place when assembling the barrel and receiver group onto the stock. What do you think about some clear lacquer or shalyer on both ends of the pins?

Lt. R. F. M.

Dear Lt. R. F. M.,

A dab of lacquer or shalyer on both ends would hold the pins in place but too much of the stuff can gum the mechanism



your weapon would be on the blink for ever. Best thing to do is to make sure that pins are in place when assembling or disassembling your machine. Careful handling and a look-see before inserting the carbine in the stock should take care of this trouble.

Half-Mast

WHAT'S BREAKAWAY GUP

Dear Half-Mast,

Every once in a while we need to replace the spring clips on the break-away safety chains for our M1A1 119-mm guns, but we can't get 'em. Got 7 S&W D-32 like the chains and don't see any other clips. Looks like if we can get a chain and don't see any to be able to get a clip. What do 'ya say?

Sgt. L. L. J.

Dear Sgt. L. L. J.,

Got 7 S&W D-32 is a little behind the times. Got 7 S&W D-34 (the 90-mm M1 gun) has the chains as completely assembled. So does Got 7 S&W D-32 for the 119-mm gun. You will surely be able to get the assembly by requesting Chain, safety, switch, any (break-



away) Got Stock No. DCOB-700-071 as it is listed in a pending revision to GPO 7 S&W D-32.

Half-Mast



2002 PUBLIC SERVICE STAFFS TO GO

BY **DAVID** **W. BROWN**
The 2002 Public Service Staffs to Go is a special feature of the magazine that provides a unique opportunity for readers to learn more about the people who work for the U.S. Postal Service. The feature is a collection of short, biographical profiles of postal employees from across the country. Each profile is written by a local reporter and provides a glimpse into the life and work of a postal employee. The profiles are arranged in alphabetical order by the employee's last name.

The profiles are a great way to learn more about the people who work for the U.S. Postal Service. They provide a unique opportunity for readers to learn more about the people who work for the U.S. Postal Service. The profiles are arranged in alphabetical order by the employee's last name.

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DAVID W. BROWN
is a freelance writer and editor who has written for a number of publications. He is currently a staff writer for the U.S. Postal Service.

ALICE BROWN

Alice Brown is a postal employee who works in the mail processing center in New York City. She has been working for the U.S. Postal Service for over 10 years.

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ARMAMENT



EASY ON THE HOOK

These four barrel hooks on the A-1 in pocket launchers won't take one month longer to unload, or worse, it will 'jar' the user on the M20 series can be replaced (DellBook No. 8042-701377), but if the user on M201 break off, you're bad it. You'll have to get a new launcher.



FOR EASY CHANGING

If M201 and M202 have been applied to your M201, you can't have a little problem. The M201 gives you a new manual loading M201 (DellBook No. 8042-701377) that's a little easier to handle. If the M201 has been recorded in your gun book, take your time to disassemble and have him make the switch for you.



BE A SUCCESSOR OF YOUR OWN A GUNNER

If the M201 rifle is your baby, you'd better make sure its parts don't get interchanged or switched with other rifle parts.

For instance, the upper and lower parts of your magazine must belong



together on your rifle. There are no 'it's, well, or he's—that's the way they're made—that's the way it's gone in. They're a matched pair and must not be separated. If the magazine or any part of mine is interchanged the rifle must be changed.





There doesn't get interchanging of whatever is in close, better in. Don't want the bank's their job.

EXTENDING BUDGETS

Keep a close eye on the original breakfast of your 75-cent Skyscraper — it's not just another.



What has it that you've your hands. Make 100¢ Book No. 1000-1100000.

has kicked off 1000 rounds, it's no to replace—regardless of its condition. Your Customer Service representative will help you the authority from 1000-1100000-10, 10 1111-1000.

When you hit 1000 rounds, record it in your Weapon Record Book. Put 1 in the Line Book, from 1000-1100000 and hold everything until you get a new Book. And when you get it, note that in your gun book, too.

An SKYSCRAPER is the only one will provide a average breakfast. You'll be getting the new Skyscraper (Don't Book No. 1000-1100000) and it's the present one we need up. There's no round limitation on the new one at all.

WHEN TO ADD MORE TO IT

To stop working every in your SKYSCRAPER's acquisition process when you're operating at full power, an acquisition rotary-joint-puller-puller-puller can't be added to the system.





Some of these units have been failing because they're overused and too tight. The only time you want it on is when you're in a situation that'll cause straying across the guides. You'll get straying when you're operating at full power or at speeds of 1000 feet or more. Oh, if the wingguides are rough or dry.



When the unit's working right, the contact on it should read between 10 and 15.



11-274. If the pressure/rotation unit fails, the system can normally be operated at full power in altitudes below 1000 feet and in half-power in higher altitudes. Pressure/rotation will normally





be repaired when operating the M11 Aquaplaner system at full power.

HARRY, NO YOU BUI!

If you make holes in getting all cleaned up, better do it on the outside of the tank. Cause that hot, heavy breathing could sure 'ell out of your engine mechanism and other fire-control equipment.



"Course, that's dangerous" a bit, but you just can't be too careful with those make-up mechanisms. Once a little moisture gets into 'em they can pick up more rust than an old maid's zipper.

Naturally, you don't see a water or steam leak on the inside of your tank. That's just drifting for operation. But if any low-down, sneaky water leaks inside the tank, stop it up-right away.



Keep all cover plates in place and the bolts tight. Replace any missing bolts, too.

Always use a clean, dry container when you pour oil into a mechanism. Any water that gets in with the oil will do you dirty—and it only takes a spoon-ful to do it.

After all, you wouldn't want to have a good shot messed up by water, would'ya?



OIL BUFFER TUBE



So you've had stripped your Model heavy barrel machine gun (hand or foot), and you're ready to put it back together. Of course you can put it together with no parts left over—but are all the parts just as?

It's not a silly question—take it because that oil buffer tube—put it in the oil buffer body like this and there's no problem, you'll know it's right:



PLACE THE OIL BUFFER ASSEMBLY IN THE OIL BUFFER BODY GROUP.

ALWAYS KEEP THE KEY ON THE SPRING GUIDE IS TO THE RIGHT TO FIT INTO SLOT IN THE RIGHT SIDE OF THE OIL BUFFER BODY. TURN THE OIL BUFFER TUBE UNTIL THE SQUARE SLOT IN THE REAR OF THE TUBE IS EXACTLY THE ARROW POINTING TO THE RIGHT.



THE STUD ON THE TUBE LOCK WILL NOW ENGAGE THE SPRING IN THE OIL BUFFER TUBE, TO KEEP THE TUBE FROM TURNING. PUSH THE OIL BUFFER ASSEMBLY FULL FORWARD.

MSG 24, Fire Control System



WRITE 'EM DOWN

Figures are mighty important. Specially the decal markings of the acquisition and track-radar directional-compasses.

These figures are different on each and every system. If you lose them you're in a fix and can only guess at what your system gives you.

These figures can wear off, or someone might accidentally paint over them. Be on the safe side. Mark them on the inside front cover of your system's record book.



NOTE THIS POSITION IN ACQUISITION COMPASS RECORD BOOK



NOTE THIS POSITION IN TRACK RADING COMPASS RECORD BOOK

The one set of figures will be found on the wingguide-assembly in the center rail (CR) compartment of your acquisition-compass. Take off the large panel

of the rail and you'll get to it.

You'll find the other set of figures on



the wingguide-assembly of the track-compass on top of the BOMC rail.



NOTE THIS POSITION IN TRACK RADING COMPASS RECORD BOOK

NOTE THIS POSITION

Remember, your system's record book will be the most permanent record for these figures—use it and be sure.

SUPPLY & DIRECTIVES

Take DD Form 130

HOW LONG



You depend on mail to characterize if you keep the operational part. Drop half of that form, together with your DA Form 8-74 (Daily Dispatch Receipt) for 30 days or 1,000 miles, whichever comes first, like the 30 days. That includes a report of accident if otherwise it'll be held in the accident reports. The mail disposition is controlled by military-answering officials.

As for the permanent maintenance services section (lower half) where the maintenance has given in the interim for indications of possible trouble and status in the service within the special attention to be given the vehicle at the next weekly or biweekly service, for that long it will be used weekly or biweekly service, after which it goes to the 15.

PART FOOT

Plans and supplies for Army troops are now handled by Engineer supply depots. DR 700-21-48 (20 Sept '44) gives the Corps of Engineers procurement and storage responsibility for these items. The DR also gives the framework on requisitioning parts products.

It also is how reports and orders, units, or materials and development units can come by their parts supplies.



TO KEEP IT

Don't wonder how long to keep that new DD Form 138 (trip sheet) after it's been filled out! Specially since AF 44-208-90, para 43, was written for a one-part form and the form now has two parts!

I want you to keep this form for 12 months after you've filled it out!



I want you to keep this form for 12 months after you've filled it out!



UNITED STATES GOVERNMENT

DD FORM 138 (REV. 1-58)

TRIP SHEET

TO (City and State)	DATE OF TRIP	CLASSIFICATION	STATUS	TYPE OF TRIP	REASON FOR TRIP	OFFICIAL USE	PERSONAL USE
San Francisco, Calif.	10/15/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/16/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/17/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/18/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/19/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/20/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/21/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/22/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/23/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/24/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/25/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/26/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/27/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/28/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/29/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/30/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/31/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>

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San Francisco, Calif.	10/17/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/18/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
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San Francisco, Calif.	10/20/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/21/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/22/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/23/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/24/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/25/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/26/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/27/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/28/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/29/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/30/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>
San Francisco, Calif.	10/31/58	CONFIDENTIAL	REGULAR	TRIP	...	<input type="checkbox"/>	<input type="checkbox"/>

APPROVED FOR TRIP: *Mark C. Smith*

DATE: *10/15/58*

OFFICIAL USE: PERSONAL USE:



WHO DOES IT?

Dear Sgt. Dugan:

Electrical generators, such as the M101 and M10, are Engineer property and by definition, who performs the various activities of maintenance on these generators?

W. K.

Dear W. K.:

Have wonderin' why somebody hasn't asked that question since, 'cept the fact they provide a unique situation as far as maintenance of Engineer equipment is concerned.

The using organization performs all 1st and 2nd-echelon maintenance. Field maintenance shops designed by Army commanders perform 3rd and 4th-echelon maintenance. In some Army areas, the field maintenance responsibility for Engineer engine generators is delegated to Company field maintenance shops. All other Engineer equipment requiring 3rd and 4th-echelon maintenance is sent to Engineer field maintenance shops.

Of course, when your engine generators require shops repair for 3rd-echelon maintenance, they are either replaced with a serviceable unit by the

Corps of Engineers maintenance and supply system or sent to an Engineer depot maintenance shop for rebuild.

Sgt. Dugan

CRANE CARRIER KEEPS!

Dear Sgt. Dugan,

Write in that need of LC's and 2E's for the Telen Landa crane carriers M212 and M213. What will they do use? Our publications cover the crane, but not the carrier or the engine.

WENDY M. H.

Dear Wendy M. H.:

They're in the mill. Soon's they're out you'll find 'em listed in the publications "Round Up" section in PE.

In the meantime check CG 5-118 and CG 5-117 for Hercules engine J1120, J20 AND J220 . . . you'll find 'em helpful. The cranes use these Hercules engines.



WATER PUMP MAKE-UP

Hold the phone on CO's 1-8073 and 1-5166 for the Model M140 Continental Engines. They tell you to use water pump grease on the water pump bearing, but 'tain't so.

You see, modern day Continental engines have ball bearing water pumps and these water pumps need nothing more than a good grade of ball bearing lubricant.

The make-up comes from the time when Continental engines had water pumps that used brass bushings and packing nuts, with the nuts on the outside. They sealed the water in by compressing the packing around the shaft with the nut applying pressure through a packing gland. This type bearing was lubed with a grease cup that used water pump grease—it hardened when it came in contact with the water, keeping the packing gland water tight.

Nowadays, with the ball bearing water pumps, the nuts on the inside and it put together so the water is kept away from the bearings. If any water should get by the seal, it'll drain out

before reaching the bearing. So, just remember, a good grade of ball bearing grease'll do the job.



Here's a complete list of all Continental engines that have the ball bearing water pumps:

M14, M61, Y45, Y93, Y112, F124, F140, F163, F186, F209, F216, F226, F244, M271, M290, M358, G373, B417, G377, H350, J381, K390, K393, T371, T417, U361, R413, B372, B402, E749, M238 and 82-841.

Make the change right now if you're still using water pump grease for those Continental engines. Water pump grease hardens when there's no water around . . . and that'll be the case on the modern water pump with the ball bearing supported shaft. When grease hardens, it's no good to make things slick.

THE BOARD UP

Large concrete structures are being built in the heart of the city. The construction site is active with workers and machinery. The structure appears to be a multi-story building or a large industrial facility.

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Large concrete structures are being built in the heart of the city. The construction site is active with workers and machinery. The structure appears to be a multi-story building or a large industrial facility.



To keep a diesel started?
 Who cares when it's started...

DIESEL



The starting-engine works hard, working each and every time you get out to start your diesel equipment. When you forget the right starting-engine starting-procedure, you'll discover your diesel's hard-working diesel will be told how to stop.

Here's the low-down on starting and stopping a starting-engine. It's especially for you guys who work Caterpillar equipment like Nos. 11, 117, 303 motor grades and the D-1, D-4, D-6, D-7 and D-8 series.

First and foremost, you gotta always remember that the two-cylinder, four-stroke-D-6, gasoline engine that sets these diesels in motion is a complete and independent unit in itself. It has its own complete set of maintenance and operation rules... you'll find 'em under the starting engine section in your TM or manufacturer's manual.

Starting-engines are started either with a rope or a crank or by pushing or electric-starting. Either way, it's murder to try to set her spinning without first making sure that all diesel engine controls, starter-controls and starting engine controls are in the right starting position.



STARTING ENGINE AND STARTING DIESEL



STARTING-ENGINE STARTING

Pull down for the right starting position for each context, as well as the right word or abbreviation, should be assumed right to the equipment when you can't find it. You can get all the dogs out of the maintenance manual.

Pay heed to these (to protect the starter motor and the flywheel ring gear from serious damage) anytime you're left to use the starting engine.



And any time the starting engine's cranked the diesel into and back and the diesel still refuses to catch . . . stop and go over everything to see if it's on right to start.

When you're ready to stop the starting engine, pull out the choke-control in the engine will fall as low speed. This flow of the fuel valve in the carburetor. This device the carburetor, makes the flow valve and leaving too long and gets excessive diesel.

When the starting engine leaves in low speed, turn the ignition switch off.



CONTRIBUTIONS



BOB'S RUBBER HELMET

Dear Editor,

Look at the hood-hold-up rod's rubber cap on some M27, M4-ton trucks. Notice how many have a hole punched right through. The hood coming down on the rod did this, and it makes the cap worthless. And without the rubber bumper, the rod hunkles down in the hood.



Here's how to use the cap and the hood. Take off the rod and bend or order a 1/4-in. flat washer 1/4-in. down.



from its top. Smooth down the rod's end and all contact points with emery cloth. Finally, paint it, and after it's dry, put back the cap and rebound the rod.



Now the cap has the washer as well as the rod to sit on. And there's no rough edges on the rod's tip to go peeling and getting where it oughtn't.

Sgt Fred G. West
Camp Chaffee, Ark.



(Old Man's Bumper) If he could he just replace the rubber bumper! And cheaper, too! The little buggers don't cost much. But best of all, take it easy resting the hood on the rod.)

WINDY SERVICE

Dear Editor,

Here's a quick-made metal dipstick for checking the tube level on the standard on the M14 and M15 models' winches. This gadget has stepped grooves



drawn from working winches by not screwing the drag-brake adjusting screw when trying to use it for a tube-level plug. And from wanting not to tilt the housing up to the top.



When the tube goes below the 7/8-in. mark on our dipstick we know the winch clutch rod is thinny and more another wrap—we tilt 'er up, to the



6-7/8-in. mark. It's a handy gadget to have around a motor pool.

Some remember you're increasing from the Top and Front of the filter hole. And—to get with—the winch clutch lever's gotta be in the engaged position.

Cpl Harold Brakes
Albermarle Proving Ground, Md.



Old Man—Pretty handy. That sure beats the disadvantages involved of looking along-ways dead bolts to see if you've got something slack. And no more jacking up almost three quarts of oil when the oil valve for only one pin. By all means, keep away from that adjusting screw. If it's not just right, the tension in the drag brake'll be fouled up, for good. There'll be nothing to stop the winch drum from overwinding the cable when it's jacked.

SPACE-TEE ORANGE DRINK

Dear Editor,

We received a bunch of GMC-M11's and M12's and was told to make up the space-tee orange drinks that are served in TR 3-8134-10 and stick them on.



We made up a few and when we tried to put them on they worked on the M12's but not on the M11's. So, we redesigned the shield so we could comply with the TR. Our design will work on the M12 and the rest of the GMC's, and is much easier to make. We used the same Hygac material and 1/4-in. flat bar stock the TR says to use. The whole shield only cost 64 cents and about an hour to make.



With this type shield, we didn't have to drill holes in the frame to put it on. We used the same holes that are used to bolt the number to the frame. All we had to do was get four new bolts 1/4 inch longer than those used on the number. This hole was of the 1/4 inch thickness of the flat bar stock, and we had it.



MC had thorough Maryland National Guard

(Ed Note—Looks like you've come up with one good way to solve the problem. However, there's an ADP in the mill that's based on a similar idea—and will reward TR 3-8134-10. Don't be using those GMC's should keep an eye peeled for it.)

Save y'r capitol

When the 1988 census is in the bag, big winners of your House and Senate seats will be you, that's how you say. Congress may be able to salvage some by adjusting the power of the large seat. Don't let it pass off, tho. There's no fix for California.

Tollens and fees

How's that top-end house fee chance of chafing through the census if you simply let down real estate and regulated firms. It may not stop the watering-out, however, but there'll be less bite by the man. And no stalling to oblige.

General Receipt

Your child's ball game will last lots longer if it's kept well lubricated, say daily if you're playing through weekly operations. My mother was 16 months dead so soon as my father left the road back. And you grow 1 to the breaking point. You may go flat without a ball game—but not in the right direction.

No place for feet

The grip assembly on the steering handwheels of your 1987 car looks very like a hammer, but it's got more what things to do. It won't take much bangin' around, so keep the big steel hammer off it. And you'll have no grip pains.

Stop it now

When you're exploring the film plug in the oil reservoir of your 1987 car, remove the gaskets don't remove the wrench. Because you have been using the wrong plastic oil this time. Fuelage pressure on the reservoir being the plug up enough—that's just enough.

No cracks, please

The next time you pick up your car, take a look at the rear spring of the leading leg corner of the engine. If there's a crack there, that's right to let exchange. Cracks without cracks are hard to fix first.

Turn off the juice

When out to see how all the lines, especially the waterline, the tell us a couple of your 82 own 1984 and ask you. And remind you, please, remind "You off when up to you" on the smaller head the water. It may not be water.

Down the double bond

The more double bond, that is, all of your the more program important the bond is on. You can help yourself get off the bond if you don't experience noticeable symptoms—head right away quick. Don't wait, and don't hang on to any more for holding on any other reason. I have quite have to be careful, and feel, and feel out to put another kind bond on the air.



WHO
ASKS THE QUESTIONS
REQUIREMENT?



WHAT

DOES
HE DO?



WHERE

ON THE BATTLEFIELD
DOES HE GO TO WORK?
ON THE BATTLEFIELD
DOES HE DO IT?



WHEN

AT WHAT
INTERVALS?



WHY?

HOW
DOES HE
DO IT?



YOU CAN FIND
THE ANSWERS
BY YOUR
EXPERIENCED
SOLDIER MENTOR.
ONE THING IS
SURE: YOU'LL
PROFIT FROM
THEIR KNOWLEDGE AND
TIPS!



KNOW YOUR FM & TM

Any Questions—Write Sgt Half-Mast