

MAGAZINI

Dear Half-Mast,

I'm a confirmed reader of PS and have gotten loads of raluable information ont of it. But I've run into a most confusing problem.

body comes along and says that the magazine is not an authoritative source and I shouldn't There have been times when I've taken some good dope out of PS and used it. Somebe using it.

As far as me and my buddies go, PS is just the thing we need. It keeps ns up-to-date and tells us what we should do with some of the quirks in our equipment. But then we're told

What's the deal, Sarge? This is getting me mighty confused.

SFC LDL

Dear SFC | D.L.

The best way to go about answering your question is to ask you to look on the first inside page of any recent issue of PS. Right above the list of contents, you'll notice this statement-

PS MAGAZINE

PUBLISHED BY THE DEPARTMENT OF THE ARMY FOR THE INFORMATION

OF ORGANIZATIONAL MAINTENANCE AND SUPPLY PERSONNEL.

Now, that means just what it says-it's for your information to use as your post or major unit commander sees fit. If there's something in PS that goes against what is usually done at

But, usually, there should be little or no difference between what PS says and what's your installation, then your boss (the CO) has the last word,

actually done. Every word that's printed in PS is reviewed by our people to make sure it's in agreement or doesn't conflict with TM's, TB's, SB's, MWO's and the rest. And, in addition, the same people that approve the directives also approve articles for PS Magazine.

tion. That, too, is logical, since one publication (TM, for example) can't possibly cover every sets minimum standards for maintenance of equipment. If you can do a better joh, then more Sometimes you'll find that PS gives you information that just isn't in some other publicasituation that may arise. In this case, PS supplements what's already been published. A TM

DOWEL TO YOU.

The biggest job PS has is to let you know that your equipment is only as good as you and your buddies want it to be. And you can keep it the best in the world by the right kind of One of PS Magazine's jobs is to get new dope out to you as soon as possible.

That's the story. You take it from there. operation and preventive maintenance.



PS MAGAZINE

Published by the Department of the Army for the informa Distribution is made through normal publication channels. Within limitations of availability, older issues may be obtained tion of arganizational maintenance and supply personnel direct from Preventive Maintenance Agency, Raritan Arsenal Metuchen, New Jersey

IN THIS ISSUE

FEATURE ARTICLES

8443332 Warm For This Form (Engineers) Keep Your Hydra-Matic Happy Blowtorch Joe (Engineers) Easy Kept Oil and Gas Record **Artillery Respiration** Cartoon Section How's Your Heat? Know Your Tools Decai Dither

DEPARTMENTS

Cartoon Continuity Publications Scoop Connie's Briefs Contributions Armament Half-Mast Engineers

72584444

PS Magazine wants your ideas and contributions, and is glad to answer your questions, Just write to. Sgt Half-Maxt. PS Magazine, Raritan Arsenal, Metuchen, New Jersey, Names and addresses are kept in confidence.

Base Conel (3); MDW (3); Armies (50), Corps (3); Div (2) except Armé Div (100), Tog Div (50); Bit (3); Regt/6p (3); Bit (5); Co (10) except Con (5) asked Co (6); Div Co (6); Pi & Cp (8); See & Si ve Sch (5); Seeclefest Sch (5); Seeclefest Sch (5); Seeclefest Sch (5); PMST (3) except PMST (4) and ROTC Basts (2); See Reports Sch (5); Sup See, See Reports (5); Div Regt (5); His (4); RTC (100); Trans Terminal Cond (3); OS Sup Agendes (2); Pis (3); Arsenais (2); Bit (100); Trans Terminal Cond (3); Dist Engr (20); Nie. State AB Special List. USAR: MIL Dist Special List. For explanation of abhreviations used see SR 200-59-1. The printing of PS Magazine, the PREVENTIVE NAINTENANCE MONTHLY by the Director, Bureau of the Budget (4 Aug. 53), and noted as follows: DISTRIBUTION: ACTIVE ARMT: Gea Staff,

A CARLOAD NOT A KICK IN

Your tools aren't going to kick back at you if you learn what they're used for and how to use them.

Of all the equipment you use, your common hand tools are the most useful and yet the most abused.

All the tools that are in your TOOL SET, Organizational Maintenance (2nd Echelon, Set No. 2 Common) are packed into this batch of pictures. Mull over the pictures and get to know each by name, and what it's used for—sorta make friends with 'em—because they can be friends, that is.



Organizational Maintenance (2nd Echelon) Set No. 2, Common. TOOL SET.

FSN 5180-754-0650

ORD 41-T-3538-855

-> 4 -ADAPTER, quick acting air hose coupling, 1/4 ENG 33-1000.100.050 in hose shik



FSN



FSN 4910-356-7511

ORD 4910-356-7511



ORD 41-A-280-100

body wt 100 lb.

(crimping type) (for-DERLESS TERMINAL. ATTACHING TOOL, SOIL-

FSN 5120-224-9408 ORD 41-C-2765

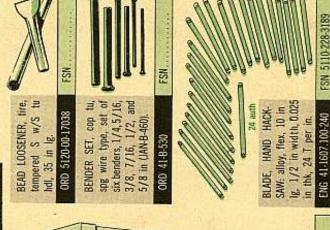
merly CRIMPER)

FSN 5120-240-6045 FSN 5120-224-1388 BAR, GREASE: sp shackle, solid (hex or BA9, WRECKING; goose-BAR, PINCH: jimmy, 3/4 in blade width, oct) 30 3/16 lg. ORD 41-B-315 ORD 41.B.255 24 in lg.

FSN 5120-238-8589 pt, 3/4 in diam, 36 in neck, claw and pinch ORD 41-B-336

FSN 6140-234-7360 water, unbreakable GRAVITY: distilled BATTERY FILLER, type, 1 gal cap (for-ORD 8.F.1000 merly FILLER)

0 1 frame w/drawers and BENCH, cabinet, mtJ dividers, Type VIII, ORD 41-8-440 -Class A.



FSN.

BLOWTORCH, GASO-LINE: hand, rd tank, 1 qt cap (formerly TORCH).

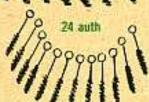


FSN 5120-181-6746

ORD 5120-181-6746

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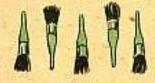
BRUSH, ACID, SWAB-BING: soldering, 1/2 in x 3 in bristles, 8-1/2 in Ig (Osborn No 811 or equal).



ENG 38-2750.750-850



BRUSH, PAINT, SASH AND TRIM: oval, 1-7/16 x 1-1/16 in (FS H-B-490), size No 5.

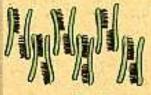


5 auth

ENG 38-4567.300-500

FSN 239-0959

BRUSH, WIRE, SCRATCH: w/wood hdl, 4x19 rows, 14 in lg, FS H-B-178, type II



12 auth

ENG 38-5797.500-600

FSN





CABINET, tool, S, w/ drawers and bench top.



2 auth

ORD 41-C-15

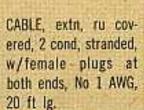
FSN 5140-357-5520

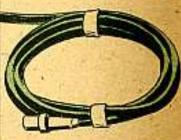
CABLE ASSEMBLY, POWER, ELECTRICAL: hand, ptbl w/reflector guard and thumb switch, 25 ft all ru covered cord, and parallel blade plug connector (formerly LAMP).



ENG 17-3592.714-025

FSN 6150-265-6497

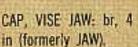


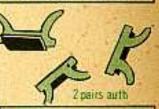


ORD 17-C-568

FSN 6145-474-9135



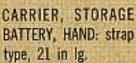


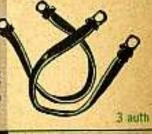


ORD 41-J-325

FSN 5120-221-1506







ORD 41-C-445

FSN 5120-223-8454



CHARGER, btry, ptbl, skid mtd, gasoline driven, 15 v, 2000 w/ carrying case. 3 auth





FSN 6130-473-6175



ENG 66-3212.016-100

FSN 4310-351-9262

ENG 6130-473-6175

CHECK-UNIT, quick actting air hose coupling, swv, 1/4 in female pipe end.



FSN.....

ORD H006-0538801

CLAMP "C"; med service, 4 in cap.



ORD 41-C-1730

CLAMP "C": med service 6 in cap.



FSN...

ORD 41-C-1732

CLAMP, WHEEL CYLIN-DER, HYDRAULIC BRAKE: sliding arm type, 2-5/8 in min cyl Igh, 4-7/8 in max cyl Igh, 4 clamps per set.

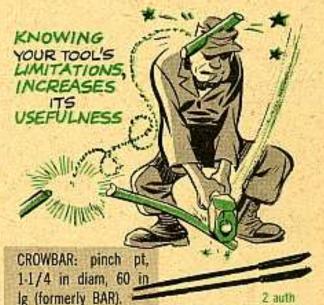


ORD 4910-244-4900

FSN 4910-244-4900



FSN 4910-261-5869



ORD 41-B-175

CUP, PAINT, SPRAY GUN: clamp type, w/ cover attachment, 1 qt cap.



FSN.

ORD 4940-190-5164

CUTTER, BOLT: rigid hd, clipper cut, 18 in lg, 1/4 in cap.



ORD 41-C-2280

CUTTER, TUBE: 1/8 to 3/4 in cap w/reamer blade (for cop, br, tin, S and lead).



FSN 5110-188-252

ORD 41-C-2825

FSN 5110-221-1052

ORD 4910-261-5869

CLEANER AND TESTER, SPARK PLUG: bench

mtd, 120 to 150 psi

air pressure, dc, 12 v.









FSN 5180-610-1888

FSN 5110-223-4992

2 sets auth

FSN 3455-357-0490

FILE, HAND: AS, fl, bast cut, 12 in pt to



FSN 5110-234-6539

FILE, HAND: AS, halfrd, bast cut, 10 in pt to shoulder.

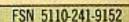


FILE, HAND: AS, half-



FSN 5110-241-9153

rd, sm cut, 8 in pt to shoulder.



FILE, HAND: AS, mil, sm cut, 12 in pt to shoulder.



FILE, HAND: AS, rd, bast cut, 12 in pt to shoulder.

FSN 5110-234-6557

FSN 5110-242-5392

ORD 41-F-1307

ORD 41-F-1184

FILE HAND: AS, three sq type, sec-cut, 8 in pt to shoulder.



ORD 5110-239-7556

FSN 5110-239-7556

FSN 5110-373-1691

FSN 6140-424-9707

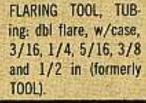
FILE, THREAD RESTORER: 11, 12, 13, 14, 16, 18, 20 & 24 TPI.

FILLER, btry, syringe,

ORD 6140-424-9707

ORD 41-F-1525

6 oz cap.





ORD 41 T 3135

FSN 5120-240-5479

FUNNEL: glvd, flex tu w/strainer, 8 in tu, 1 qt cap.



ORD 41-F-3592

ORD 41-F-3593

FUNNEL: give, stght spout, w/o strainer 2-1/4 in spout, 2 qt

сар.



FSN 7330-223-8874

FSN 7330-230-2397

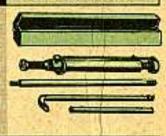
FILLER, hyd brake master cyl, pressure feed.

ORD 41-F-2982



FSN.....

GAGE, tension, cont points and brushes, calibrated 0 to 80 in 1 oz graduations, coil . spg type, w/push rod and hook, in mtl case.



ORD 41-G-105

FSN.



FRAME, welding tank type III (cyl).



GAGE STOCK SET, THICKNESS: 11 blades, 0.0015, 0.002, 0.003, 0.004, 0.005, 0.006, 0.007, 0.008, 0.010, 0.012 and 0.015 in, 12 in lg.

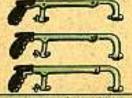
ORD 5280-267-3095

FSN 5280-267-3095

ORD H002-6584797

FSN.....

FRAME, HAND HACK-SAW: adjustable, pistol grip hdl, 8 to 12 in blade cap. 3 auth



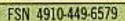
FSN 5110-223-4971

ENG 41-3714.300-200



GAGE, TIRE PRESSURE, SELF-CONTAINED: precision type calibrated 10 to 160 lb Range .

ORD 5280-267-3095



GAGE TWIST DRILL AND DRILL ROD: (for sizes 1/16 to 1/2 in by 1/64th).



ORD 41-G-455

FSN 5210-238-1923

GAGE, vacuum, carburetor adjusting, and 2 auth fuel pump testing.





ORD 41-G-500

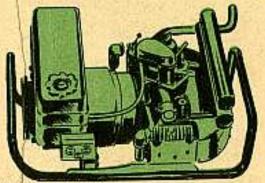
FSN 4910-387-9582

GAGE, WHEEL ALIGN-MENT: toe-in type.



ORD 41-G-510

FSN 5210-473-7106



GENERATOR SET, GASO-LINE ENGINE: base mtd, 2 kw, 110 v, 1ph, 60 c

ENG 17-5122.320-600

FSN 237-0224

GOGGLES, eyecup, protective, chippers and grinders, impact resisting, f1 lens w/2 extra lens FS GGG-G-501.



ENG 37-4458,300-100

FSN 268-9741

GOGGLES: eyecup, protective, over-spectacle type, welders, glare, f1 lens, w/cover and filter lenses FS GGG-G-511.



ENG 37-4458.660-110

GRINDING MACHINE. BENCH, HAND OPER-ATED: hv-duty, 6 x 1-1/4 in wheel.



ORD 41-G-872

FSN 3425-241-3116

GUN, AIRBLOW: cleaning, 1/4 in male pipe thd inlet, w/30 deg female taper seat.



ORD 4940-241-3075

FSN 4940-241-3075

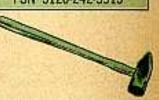
HAMMER, HAND: blacksmith's, crosspeen, 3 lb.



ORD 41-H-126

FSN 5120-242-3915

HAMMER, HAND: blacksmith's sledge, crosspeen, 12 lb (formerly SLEDGE).



ORD 41-S-3706

FSN...

HAMMER, HAND: carpenter's, nailing. curved-claw, bell-faced, 1 lb.



ORD 41-H-187

FSN 5120-194-1633

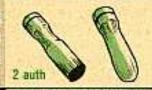
HANDLE, FILE, WOOD: 1-1/4 in diam of hand grip.



ORD 41-H-1116

FSN 5110-263-0349

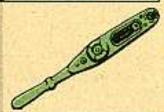
HANDLE, SOLDERING IRON, WOOD: 6-1/2 in aprx lgt, 1-1/2 in max diam.



ORD 3375-263-0346

FSN 3375-263-0346

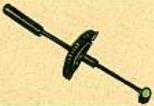
HANDLE, SOCKET WRENCH: torque indicating, 1/2 in sqdrive, 175 ft lb cap (formerly WRENCH).



ORD 41-W-3631

FSN

HANDLE, SOCKET WRENCH: torque indicating, 3/4 in sq-drive, 300 ft lb cap (formerly WRENCH).



ORD 41-W-3634

HARDY: blacksmith's. sq-shk, 3/4 in shk, 1-7/8 in bit.



ORD 41-H-1561

HOSE, air, ru, braided, 1/4 in ID, w/nonferrous female swy fittings having 1/4 in std pipe stght thd for taper seat nipple connections, 25 ft lg.



ORD 33 H-120

FSN 4720-356-8557

HYDROMETER, syringe, antifreeze solution testing, two float type, minus 50°F to 160°F Range (for ethyl, alcohol, and ethylene-glycol).



ORD 18-H-940

FSN 6630-449-6609

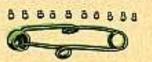
HYDROMETER, syringe, lead-acid stor btry, w/2 identical floats, minus 65°F to plus 165°F temp Range



ORD 18-H-1241-20

FSN

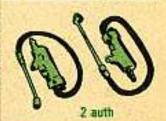
IGNITER, FRICTION: revolving file type, w/10 extra tips.



ORD 41-1-50

FSN......

INFLATOR-GAGE, PNEU-MATIC TIRE: calibrated in 2-1/2 lb steps to 40 lb, and in 5 lb steps to 120 lb (formerly CHUCK-GAGE).



ORD 8-C-5300

FSN....

IRON, tire, curved type, 24 in lg. 2 auth



ORD 411772

FSN 5120-449-7071

IRON, tire, hand, univ, 18 in lg. 2 auth



ORD: 41-I-780

FSN 5120-473-6328

IRON, tire, nonpinching, dble-end, 18 in Ig.



ORD 41-1775

FSN 5120-449-7073



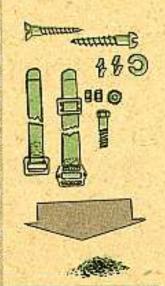
MOMENT OF CAN WIPE OUT MONTHS OF GOOD MAINTENAN

JACK, HAND, HYDRAU-LIC: automobile and motor truck, w/ hdl, 12 ton cap, 11 in contracted ht, 16-1/4 in extended ht. 4 auth



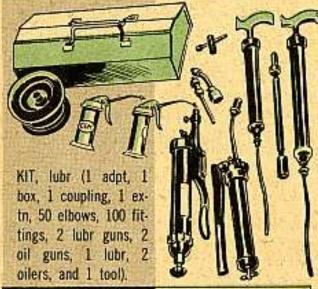
FSN 5120-188-1789

KIT, hardware, installation, No. 2 (comm) Organizational (2d Echelon) Maint Shop Set Consists of: 33 bolts (various sizes), 1 clamp, 2 cable hooks, 33 nuts (various sizes), 10 pins, 18 reinforcing plates, 2 wood screws, 11 hd, 2 wood screws, rd hd, steel bar-stock, 6 web straps, 33 lock washers (various sizes)



ORD H020-5701699

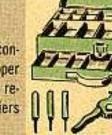
FSN.



ORD 41-K-96-625

FSN 4930-357-6301

KIT, repair, elec connector (one stripper and cutter, three removers, and one pliers in mtl case).



ORD 41-K-103-100

FSN 5935-708-3423

KNIFE, RUBBER CUT-TING: 4 in taper pt.



ORD 41-K-557-50

FSN 5110-242-3775

LANTERN, elec, general purpose, 6 v. w/lamps, w/o btry.



SIG 6Z6914-290

FSN 498-9408

LIFTER AND SCRAPER, btry term.



ORD 41-L-1431-200

FSN 5110-357-6341

elec, trouble, comp w/attachment and btry term clips, 6 v, 25 w, 15 ft. 4 auth



ENG 17-6625.400-150

FSN 6230-268-9436

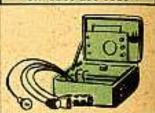
LIGHT, EXTENSION: elec, hand, w/med screw socket, lamp guard w/reflector and hook, hdl w/switch, std parallel blade plug and 2 cond, ru covered, NEC type S, No 16 AWG cord, w/o lamp, 25 ft lg.



ENG 17-7047 075-250

FSN 6230-239-3518

LIGHT, timing, power blue white It, comb 6, 12 and 24 v vehicle btry operated (MIL Spec MIL-13009) (ORD).



ORD 17-L-12936-300

FSN 17-L-12936-300

LUBRICATING UNIT, POWER OPERATED: high pressure, 25 to 50 lb cap, w/3/8 in ID x 10 ft hose assy (formerly GUN).



ORD 40-G-503

FSN 4930-704-3917

MEASURE: S, w/flex spout, 2 qt cap. 2





ORD 41-M-941

FSN 7330-233-6014

MEASURE: S, w/flex spout, 8 qt cap.

ORD 41-M-942



FSN 7330-233-6016

OIL GUN, PNEUMATIC: curved neck, 32 oz cap (formerly CLEANER).



ORD 4930-222-2975

FSN-4930-222-2975

PADLOCK, keyed individually, br body, 1-3/4 in w/2 keys.



ENG 42-5752-475-102

ORD H0008-0585702

PLIERS: angle nose, btry term, w/o cutter. 7 in Ig.



ORD 41-P-1890

FSN 5120-224-1537

PLIERS, brake key and snap ring, horse shoe type.



ORD 41-P-1572

FSN 5120-473-6386

PLIERS, brake spg, removing and replacing.



ORD 41-P-1579

FSN 5120-387-9596

PLUG, attachment, dble outlet, non-watertight (OS-12-12 type II).



ENG 17-7597,200-020

FSN 5935-449-7177

PLUG, attachment, sgl outlet, (OS-12-12 type III).





ENG 17-7597.200-100

FSN 5935-499-7176

PULLER, btry term and small gear, screw type.



ORD 41-P-2900

FSN 5120-449-7298

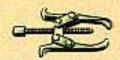
PULLER, gear and brg, rvrs jaws, 0-6 in diam cap, 3-1/4 in reach.



ORD 41-P-2912

FSN....

PULLER, gear and brg. rvrs jaws, 0-8 in diam cap, 5-1/2 in reach.



ORD 41-P-2911

FSN 5120-473-6395

PULLER, gear and brg. univ, 0-12 in diam cap, 10 in reach.



ORD 41-P-2910

FSN.....

PULLER, steering gear arm, univ type.



ORD 41-P-2952

FSN.

PULLER, steering wheel, univ type.

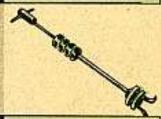




ORD 41-P 2954

FSN 5120-422-8570

PULLER, univ, slide hammer type, ryrs, 3 jaw, 0 to 4 in outside R, 1-1/4 to 6 in inside R.



ORD 41-P-2957

FSN....

PULLER, wheel, univ, w/set of lg, short & sp jaws.





ORD 41-P-2960

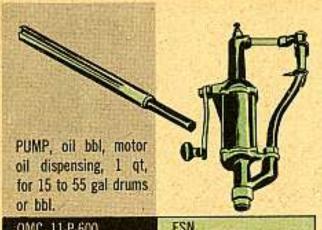
FSN 5120-449-3770



osene or gasoline, w/6

QMC 11-P-210

FSN



QMC 11-P-600

FSN.

PUMP, BUCKET, LUB-RICATING: hand operated, high pressure, 25 to 50 lb cap, w/3/8 in ID x 10 ft lg hose assy (formerly GUN).



ORD 41-G-1374

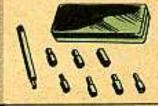
FSN 4930-244-4859



ORD 41-G-1425

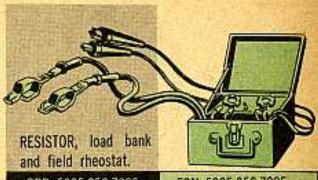
FSN 4930-244-4860

PUNCH SET, gasket cutting, hollow, seven punches w/mandrel in case, 1/4 to 5/8 in diam cut by 16 ths.



ORD 41-P-3724

FSN.....



ORD 5905-356-7995

FSN 5905-356-7995

REMOVER AND RE-PLACER, tire lock ring, 18-1/2 in lg.

ORD

FSN 5120-359-6552

SANDER, ELECTRIC: ptbl, disc type, 115v, univ cur, 7 in disr.



ORD 40 S 28

FSN.....

CROSSCUT. SAW. HAND: skew back, 8 points per in, 24 in lg.



ORD 41-S-185

FSN.....

SCREEN. HEADLIGHT BEAM ADJUSTMENT: 10 ft wd x 42-1/2 in high flex hor line.



ORD 41-S-990

FSN 4910-240-7529

SCREWDRIVER, COM-MON: integral hdl, 10 in blade, 7/16 in tip, 16-1/2 in lg.



ORD 41-S-1078

FSN 5120-222-8872

SCREWDRIVER, SET, recessed screw (Phillips type) four comm and two offset screwdrivers.



ORD 41-S-1630

FSN 5120-357-7174

SEPARATOR, OIL AND WATER, SPRAY GUN: w/I regulator.



ORD 4940-242-4100

FSN 4940-242-4100

SHEARS, FABRIC CUT-TING, HAND: bent trimmers 6 in cut, 12 in lg.



ORD 41-S-2855



SPREADER, tire, air operated, floor type, 14.00-24 tire cap.

ORD 40-S-2589-900

FSN.....

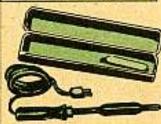
SOCKET WRENCH, STUD REMOVER AND SETTER: 1/2 in sqdrive, 1/4 to 5/8 in cap.



ORD 41-S-2390

FSN. SOLDERING IRON ELEC:

125 w, 115 v, 3/8 in min to 3/4 in max tip diam, w/extra tip and mtl case (formerly IRON).



ORD 41-I-687

FSN 3375-223-2539

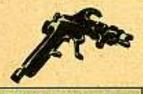
SOLDERING IRON, NON-ELECTRIC: py pt, 1 lb formerly IRON).



ORD 3375-224-7510

2 auth FSN 3375-224-7510

SPRAY GUN, PAINT: siphon feed, nonbleeder type, 7 cfm (formerly GUN).



ORD 40-G-530

FSN 4910-261-8415

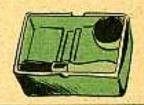
STENCIL SET, adjustable lock edge type. br, w/dry type ink, letters and figures 1 in high.



ORD 42-S-21910

FSN

STENCIL SET, adjustable lock edge type, br, w/dry type ink, letters and figures 2 in high.



ORD 42-S-21920

FSN......

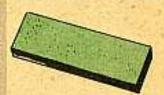
STENCIL SET, adjustable lock edge type, br, w/dry type ink, letters and figures 4 in high.



ORD 42-S-21930

FSN.....

STONE, SHARPENING: un-mtd, artificial, rect, coarse and fine comb. 1 x 2 x 8 in.



ORD 41-S-5416

FSN 5345-260-0759

TACHOMETER, engine, elec, 0-4000 rpm R, w/o batteries.



ORD 18-T-231

FSN...

TESTER, CYLINDER COMPRESSION: direct type (formerly GAGE).



ORD 41-G-124

FSN 4910-250-2423



TESTER, low voltage ckt, voltage R 0-1, 0-10, 0-50, 0-100, amp R 3-0-10, 15-0-50, 30-0-100, 150-0-500, 300-0-1000 (for testing gr. starter, regulators and wiring).



ORD 17-T-5575-50

FSN 6625-356-8269





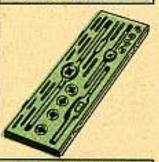
THREADING SET, bolt and screw, NC, w/rd adjustable split dies, stocks, taps, and wrenches, 1/4-20NC to 1-8NC, 24 pc in case.



ORD 41-T-1895

FSN 5180-448-2362

THREADING SET, bolt and screw, NF, w/rd adjustable split dies, stocks, taps, wrenches, 1/4-28NF to 1-14NF, 24 pc in case.



ORD 41-T-1925

FSN 5180-422-4975

THREADING SET, pipe, NPT, w/rect adjustable dies, stk, wrench, adjustable guide, and taps, 1/8-27 NPT to I-11 1/2 NPT, 13 pc in case.



FSN.

ORD 41-T-2023

TOOL, tire probing.



ORD 41-T-3374

FSN 5120-449-8047



TOOL, tire valve stem fishing.



ORD 41-T-3378

FSN 5120-423-2346



TOOL, valve repair.



ORD 41-T-3382-20

FSN 5120-387-9642



lators, torch and goggles.

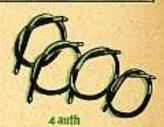
ORD 41-T-3785

FSN

TUBE, BLEEDER, HY-DRAULIC BRAKE: w/ connections, No. 10-32NF-3 male and 1/4-28NF-3 male, 18 in lg.

UNIVERSAL JOINT,

SOCKET WRENCH: 3/4



ORD 41-T-4170

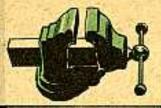
FSN 4910-533-8493



in so-drive. ORD 41-J-382

FSN 5120-228-9348

VISE, MACHINIST'S: bench, swy-base, stationary jaw, 4 in jaw wd, 5-1/2 in jaw opng.



ORD 41-V-276

FSN 5120-243-1371

VULCANIZER, HOT PATCH: bench mtd, clamp type.



ORD 4970-243-3130

FSN 4970-243-3130

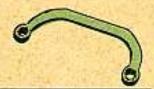
WRENCH, adjustable, sgl open end, 1-5/16 in jaw opng, 12 in lg.



ORD 41-W-488

FSN

WRENCH, BOX: dblehd, 12 pt, half moon, 9/16 and 5/8 in opngs.



ORD 41-W-635

FSN 5120-222-1596

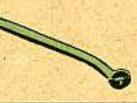
WRENCH, BOX: dblehd, 12 pt, half moon, 5/8 and 3/4 in opngs.



ORD 41-W-636

FSN 5120-222-1597

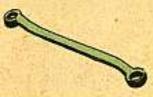
WRENCH, BOX: dblehd, 12 pt, lg, 15 deg offset, 1-1/16 and 1-1/8 in opngs.



ORD 41-W-619-678

FSN 5120-184-8675

WRENCH BOX: dble-hd, 12 pt, lg. 15 deg offset, 1-1/4 and 1-3/8 in opngs.



ORD 41-W-619-698

FSN 5120-184-8677

WRENCH, DRAIN PLUG.



ORD 41-W-875

FSN 5120-222-1398



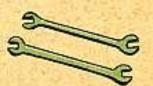
WRENCH, OPEN END, ADJUSTABLE: sgle-hd, 1-1/2 in jaw opng, 10 in Ig.



ORD 41-W-487

FSN 5120-449-8083

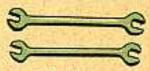
WRENCH, OPEN END, FIXED: tappet, dble-hd, 15 deg angle 7/16 and 1/2 in opngs.



ORD 41-W-3573

2 auth FSN 5120-184-8620

WRENCH, OPEN END. FIXED: tappet, dble-hd, 15 deg angle, 9/16 and 5/8 in opngs.



2 auth

ORD 41-W-3579

FSN 5120-184-8221

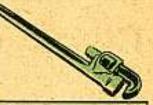
WRENCH, PIPE, AD-JUSTABLE: hv-duty, 1/4 to 1 in pipe cap. 10 in lg.



ORD 41-W-1662

FSN 5120-240-5331

WRENCH, PIPE, AD-JUSTABLE: hv-duty, 1 to 2 in pipe cap, 18 in Ig.



ORD -41-W-1664

FSN 5120-357-871

WRENCH, SPANNER. HOOK: adjustable, 3/4 to 2 in circle diam.

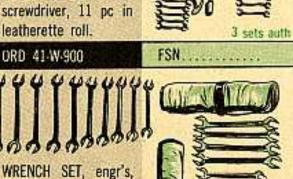


ORD 41-W-3249-900

FSN 5120-449-8235





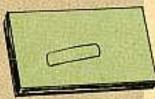


dble open end, 15 deg angle, alloy-S, 3/8 to 1-1/8 in opngs, 10 wrenches in roll.

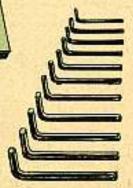


ORD 41-W-982-20

FSN 5120-422-8594



WRENCH SET, set or cap screw (hollow-hd), hex, plug type, reg short arm series, 5/64 in, 11 wrenches in box.

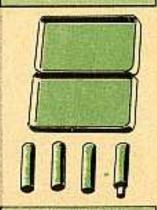


ORD 41-W-2418

FSN 5180-523-9817

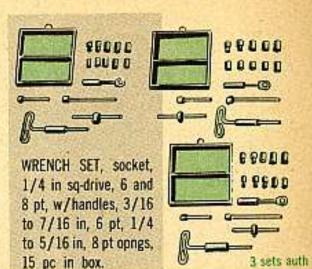


WRENCH SET, socket, 1/2 in sq-drive, 12 pt, deep, 1/2 to 7/8 in opngs, 8 wrenches in



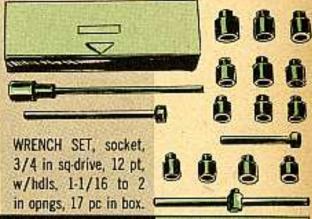
ORD 41-W-2995

FSN 5180-357-8905



ORD 41-W-2614-110

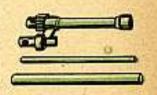
FSN 5180-357-8810



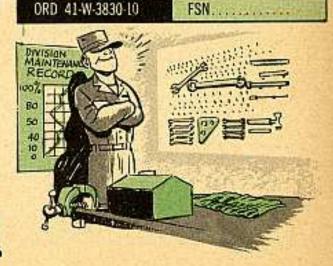
ORD 41-W-2620

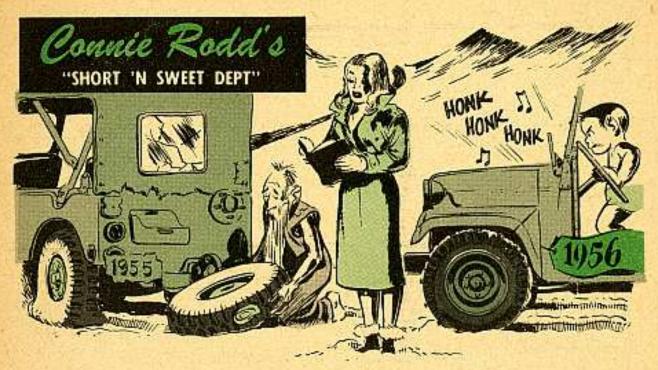
FSN 5180-357-8822

WRENCH SET, wheel (Budd) stud nut, gear type, w/36 in tubr hdl and 20 in bar hdl, supersedes ORD 41-W-3830



ORD 41-W-3830-10

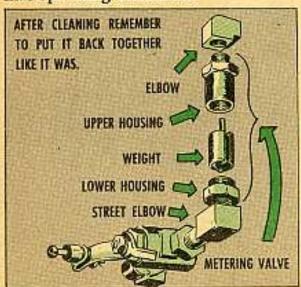




Hey, there--

You with the M-model vehicles!

If you've got a 1/4- or 3/4-ton 4x4 truck or a 2-1/2- or 5-ton 6x6 truck, then make sure you're cleaning the crankcase-ventilator-valve (alias Donaldson or metering valve) used on the engines of these trucks. They need a cleaning every six months or 6000 miles, whichever comes first, under normal operating conditions.



How do you do it? First, remove the crankcase-ventilator-valve-assembly from the engine. Clamp the valve-body snug in a vise and unscrew the valve-retaining-nut. (Watch how you take this apart so you can put it back together like it was).

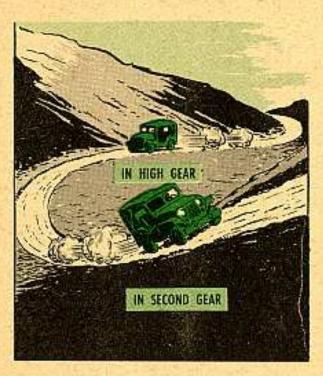
Wash the valve, seat, and all orifices with dry-cleaning solvent or volatile mineral spirits to remove any carbon or gum. Check and clean all connecting tubes or lines.

Put the valve and spring in the valvebody and put the retaining-nut back on. Then put the assembly back on the crankcase.

A plea

P-u-h-l-e-e-z-e read your vehicle's caution plates. Got good information there, if you interpret it right.

For example, a plate in the M38A1 Jeep says the vehicle can be driven in second gear and high range up to 40-



MPH. O'course, this doesn't mean running your engine continually in second gear—engine wear'll multiply faster than rabbits, because your engine'll be running at a higher speed than in high gear.

But it's good to know this li'l fact when you hit that hilly country and your engine begins laboring in high gear. By shoving her into second, you can hit up to 40-MPH without your engine overloading itself. It also increases the life of your engine by keeping the operating temperature at a normal 180 degrees and eliminates a lot of spark plug troubles.

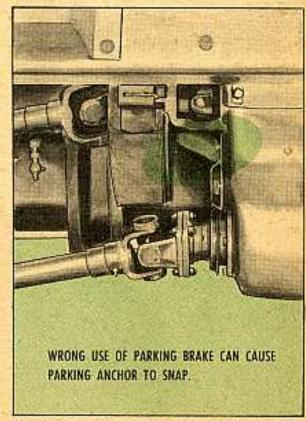
Anchors away

It's usually the simple things that cause the biggest pains. Take that parking brake in your M133 series 2-1/2ton trucks, for example.

Most guys know that they're not supposed to move their truck unless that parking brake's released and that they're not supposed to use that brake to stop, except in emergencies. But a lot of guys are forgetting the simple—and are getting nothing but pains.

When that parking brake is used wrong, one terrific strain is put on the parking anchor, which is part of the transfer, and it can snap. When this happens, your handbrake goes kaput.

So, take a tip—make sure that handbrake's released whenever you move your truck, and use it wisely like it tells you in the TM 9-819A. O'course, if that



you in the TM 9-819A. O'course, if that anchor's breaking for no good reason, get a UER off immediately—if not sooner.

Plug it up



Take a peek at the underside of the flywheel housing cover on your M133 series 2-1/2-ton trucks. There should be a drain plug tapped in.

The word is that you're to leave that plug in the cover at all times. You'll remove it only after fording and every time your truck gets a C service. This'll let all that water and oil that's trapped up in there drizzle out.

If you haven't got a plug tapped in, shuffle your truck back to Ordnance and get them to do the job. MWO Ord G749-W23 gives them the word.

Removing hot sparks

When you begin fussing with those batteries in your tank, there's one thing you've got to remember—both hull ground cables have to be handled first or you may set your tank on its turret.



Every time you remove the battery covers on your light tanks, your M46A1 medium tank and your M47 medium tank, or when you unscrew the battery hold-down clamps on your M48 medium tank, you've got to disconnect and tape the ground cable first. When messing with the battery covers on the T43,

take the ground cables off at the battery.

Each pair of batteries in your tank is connected in parallel. So, disconnecting the ground strap of one pair isn't going to do much good. You'll still have 24volts streaming thru the system because the other set's grounded.

All you've got to do to be safe is unscrew the cables where they're grounded to the hull and tape the ends. Then remove the covers or hold-down bracket by lifting them straight up—after you unscrew the hold-down clamps.

This dope will be in future manuals.

The ground cables are the last things you book up when putting batteries back into your tank.

Sparks and gasoline in your hull can become closer than Romeo and Juliet. Follow the ground cable removal method and save yourself a hot seat.



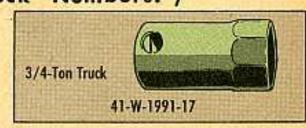
Are your wheel-bearing adjustingnuts being chewed up for no reason you can figure out? If so, maybe you're using the wrong tool on them.

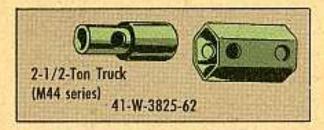
To save those nuts from dangling on a stripped thread, there's only one tool to use. That's the wheel-bearing nutwrench listed in the organizational tool section of all your SNL's.

Here's a chart showing the Ordnance stock numbers of those wrenches for your M-series vehicles. If you've got them, fine—use them. If not, better get them from supply. It's a wise man who uses his tool right.

WHEEL - BEARING NUT - WRENCHES (Ordnance Stock Numbers:)

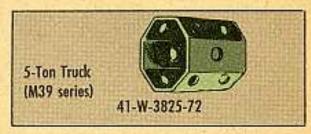




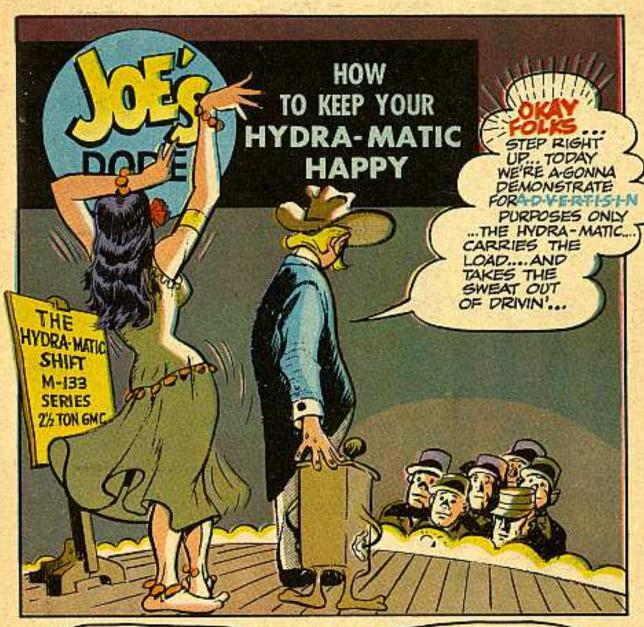








Make your bearing adjustment according to the poop in your TM's.















HOW TO START THE HYDRA-MATIC





IF YOU'RE USING THE POWER TAKE OFF, PUT THE PTO LEVER IN CENTRAL NEUTRAL POSITION (HYDRAMATIC LEVER STAYS IN NEUTRAL)





AFTER THE ENGINE STARTS



ADJUST THE CHOKE AND HAND THROTTLE TO EVEN IDUNG SPEED, ...



SHIFT ME INTO PROPER RANGE AND DRIVE...

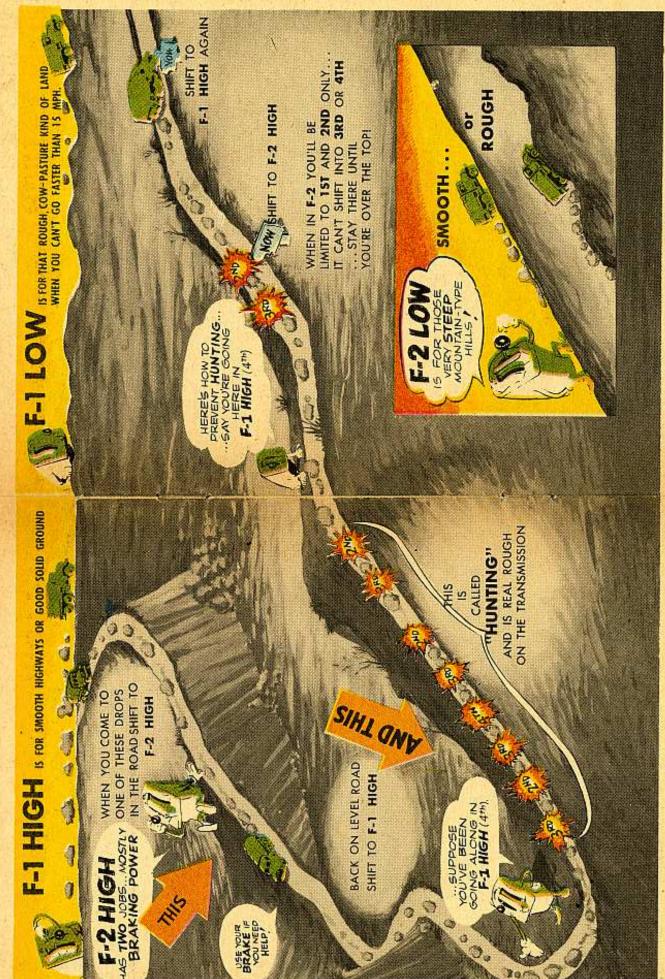


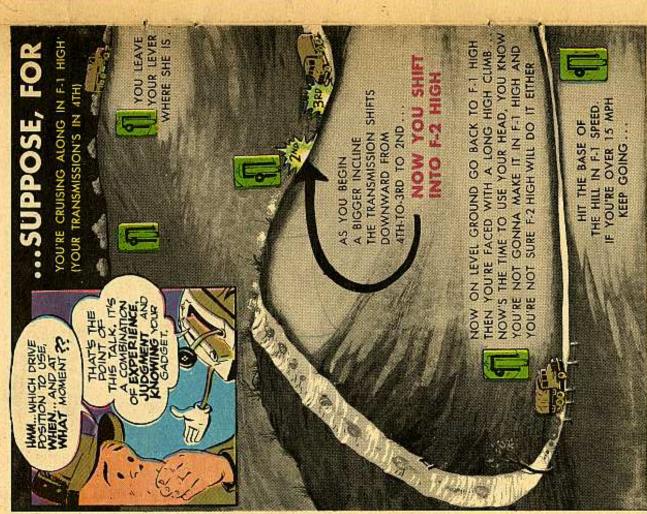
RELEASE PARKING

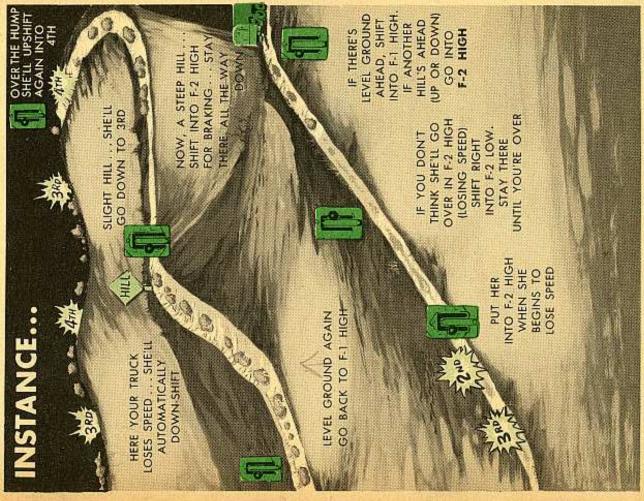






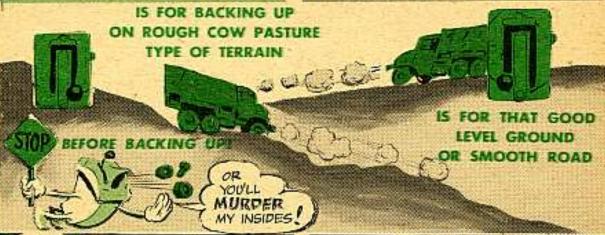






LOW RANGE REVERSE

REVERSE HIGH RANGE













AN UNPARDONABLE BELCH

Dear Half-Mast,

A few of our tanks really foul up in cold weather. They start belching like a guy after a two-day binge and give off more black smoke than a steel mill.

Here's what happens: At idle the tanks run fine. They start out OK, too. After being on the road a while, they start belching black smoke, and we have a tough time keeping them running. We park—we start—we run—b-u-r-p. Over and over again this happens. And a complete check shows that everything's OK.

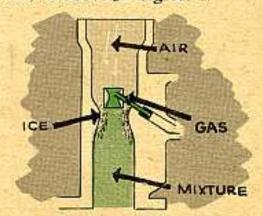
What's your diagnosis, Sarge? We need help, so start acting like a medic.

CWOP. J. C.

Dear CWO P. J. C.,

The diagnosis is carburetor hiccups brought on by the carburetor icing up in cold weather. A carburetor can freeze up—it's common if conditions are just right.

Here's how: As the air's sucked into the carburetor it expands a bit as it leaves the venturi tubes. This lowers the temperature. At the same time, you're spraying liquid gasoline into this stream of air, and as the gasoline evaporates it lowers the temperature even more. So, you very often get temperatures in the carburetor which're below freezing even though the outside temperatures may be above 32 degrees F.



This low temperature usually doesn't cause any trouble. But, if the air's very humid, water vapor can condense in the cold carburetor either as water or ice crystals. In either case, you get ice piling up inside your carburetor, blocking off the jets and changing the shape of the venturi—in other words, a general plugup. That's when you get the belching and black soot.

If you have this icy condition there's only one way to cure it—de-icing. Before starting your engine in cold weather, start your personnel heater. Start your auxiliary engine, too. Make sure the cover assembly and seals are tight over your air-cleaner ducts so that you draw warm air from the fighting compartment into the engine compartment. Start your engine when the engine compartment is nice and warm.

Keep that warm air going through your carburetor and you'll have no more trouble. Gives no more burps.

You'll see this poop in future TM's.

Half-Mast

STARTING MADE EASY

Dear Half-Mast,

I got troubles when it comes to starting my M38 1/4-ton Jeep. I push down on the starter-pedal and nothing happens. I've replaced a number of starterswitches and even a few starters themselves. Yet the trouble still happens. What do you suggest?

Sgt V. L. G.

Dear Sgt V. L. G.,

First I suggest you take a look at your starter pedal linkage. If it's OK—not bent or anything—chances are the internal adjustment of your starter-switch is on the fritz. But, no sweat. Here's what to do! Take the vehicle back to Ordnance. They'll remove the starter-switch from the starter. Then, they'll remove the plunger assembly from the starter-switch, and see if the plunger is lying flush against the plunger-spring.

When the plunger is screwed down against the plunger-spring, the plunger is too short and cannot make the positive contact needed to turn the starter over.

It won't take Ordnance long to set it right—all they'll do is:







Before hopping into your Jeep and driving away, make sure Ordnance checks that Jeep for timing as per TM 9-1825B, par 110c. By the time you get done you should have one good starting Jeep.

Half-Mast

TRIP TICKET TRICK

Dear Half-Mast,

About the new trip ticket DD Form 110—when doing our daily services do we only check the items listed on the ticket, or do other items get checked also?

Lt J. J. S.

Dear Lt J. J. S.,

Although the trip ticket doesn't say so —thought everyone knew that the vehicle's technical manual is used when checking your vehicle. It's right there in the last sentence of paragraph 8a of your TM 9-2810. The trip ticket is something on which to record the service you perform and what you find.

You can add the items the TM has but your DD Form 110 doesn't have, or you can scratch thru those that are not present on the vehicle being checked.

Half-Mast

FASTEN-A-TING

Dear Half-Mast,

We're having trouble getting the fastener that holds the instrument cluster mounting plate stud in the dashboards of the Willys, Reos, Dodges and International Harvesters. These fasteners are not listed in the SNL's. What to do, please?

Sgt M. L. B.

Dear Sgt M. L. B.,

Sorry but those pesky li'l fasteners are not an item of supply.

They were put there as an case-ofmaintenance part. All you've got to do to remove your cluster mounting plate is to turn the studs one-half turn. The studs disengage from the fasteners and your cluster mounting plate falls out. Then these fasteners come loose, and it's easy to lose 'em.



If you do lose them and can't find a replacement, the parts to use to keep your mounting plate in place are: Capscrew, hex head, S, Cd or Zn pltd, 3/8 x 16 NC, 3/4 inch length (Ord Stock No. H001-5026721); wing nut, 3/8 x 16 NC-2 (Ord Stock No. H101-0126032); and washer, 3/8 inch plain (Ord Stock No. H001-7045561).

The ease-of-maintenance is gone, but at least you won't have mounting plates flopping 'round all over the place.

Half-Mast

A VELVET TOUCH

Dear Half-Mast,

An Air Force outfit stationed near us has eliminated a lot of clutch troubles on the 5-tonners by using a clutch disc called the "Velvetouch clutch disc." They say the oil and grease usually found on these clutches do not affect this type disc.

How can we get some of these clutch discs?

Sgt L. T. S.

Dear Sgt L. T. S.,

The "Velvetouch" clutch disk is a commercial type disk which although now being tested has not been approved for Ordnance use. Until such time as tests have been completed, I'd hesitate to use them. If you'll get your truck to Ordnance and have them modify your clutches according to these two "Urgent" MWO's—Ord G744-15 (13 Sept 54) and G744-W16 (8 Nov 1954) as well as abide by TB 9-837-5 (17 May 1954) you shouldn't have any trouble with oil and grease contaminating your 5-ton clutches.

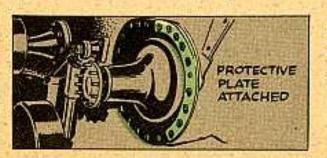
BULLDOG BOLTS

Dear Half-Mast,

The bolts that bold the final drive housing to the bull of our M41 tanks take quite a beating from stones and stuff picked up and carried by the track. Usually the heads just get battered up, but sometimes—in really rough terrain—the bolts will shear.

We been wondering what can be done about this. Any ideas?

Sgt A. F. W.



Dear Sgt A. F. W.,

Yep. Just hold everything for awhile —and hope the bolts do likewise. (Keeping 'em good and tight will help.)

There's an MWO on the way that handles the problem for all light tanks with the Bulldog chassis. Adds a plate to the housing to protect the bolt heads. Watch for it.

GO BY THE BOOK

Dear Half-Mast,

There exists a doubt in my mind as to what is the correct cold lubricant level for the front and rear differentials on the 2½-ton truck M135.

TM 9-819A, dated July 1951, paragraph 59, says: "Add lubricant to bring level up to within 1/2 inch of plug opening when cold or to plug level when hot." But LO 9-819A (21 Oct 52) Note 5, says: "Other gear cases fill to plug level."

Which should we follow?

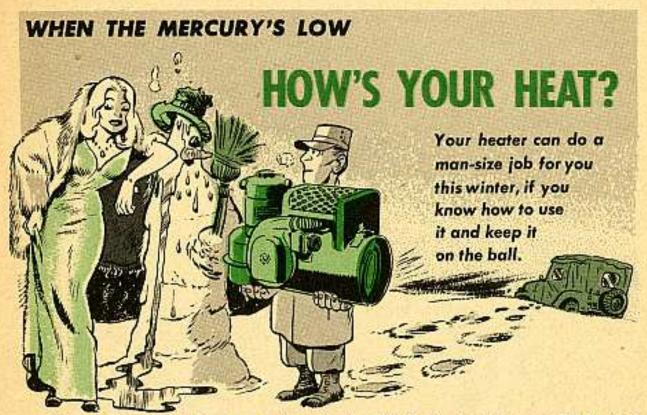
Capt J. B.

Dear Captain J. B.,

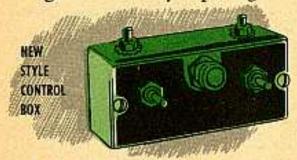
This time you'd better go by the book until you get a copy of LO 9-8024 (14 June 55). It has the right dope in it—the same as you see in TM 9-819A. You're asking for trouble when you add more lube than you need.

Lube expands when it gets hot—too much lube in those differentials will burst oil seals and leave you with a drippy rear end.

Half-Mast

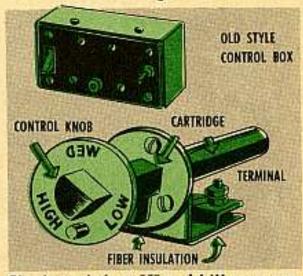


To get hot, you've first got to know what kind of switch-box you're fooling with. They're two types of switch-boxes—those that have a HI-LO switch on them to regulate what they're putting out and those that have a separate thermostat.



For the heater control with the HI-LO switch, turn the switch to HI. Hold the RUN-OFF-START switch in START position until the pilot light goes on—then, snap this switch to RUN and your heater'll start raising heat within three minutes.

When your heater is giving off more heat than you can take, that HI-LO switch really comes in handy. All you've got to do is flip your heater-control from HI to LO and it'll cool off. Then, when you get a little cold and want some heat,



flip the switch to HI and it'll start putting out again.

For the other type of control, you'll find a thermostat either to the left of the driver's seat or between the driver's and assistant driver's seats. This thermostat is marked HIGH, MEDIUM and LOW—what kind of heat do you want?

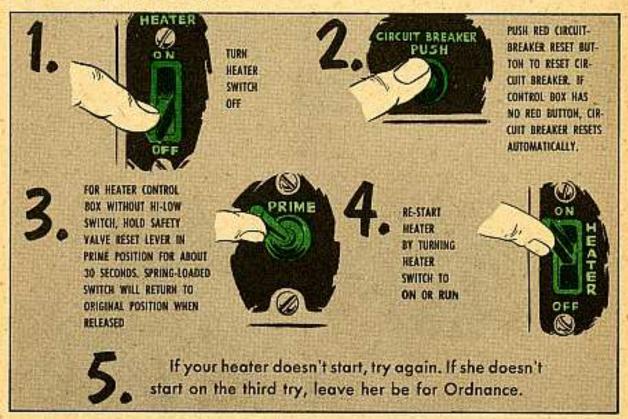
To start this type of heater;

HOLD IN RESET FLIP CLOSED POSITION FOR 30 SECONDS

To regulate the amout of heat:



There's a safety device that automatically shuts off the fuel supply if your heater fails to burn. The electrical system has two circuit-breakers that'll cut off the electricity if you get a short or overload. If you don't feel warm air at the heat outlet within four or five minutes or if your pilot fails to light on those heaters that have a pilot, be sure you—



If it's getting too hot for you, no sweat. Just turn the heater off. If you've got a HI-LO switch, turning the switch to LO will not turn the heater off, just the same as turning the thermostat to LOW in your other type heater will not turn the heater off. In both, you've got to turn the heater switch to OFF.



When turned off, burning in the heater will stop within a few seconds, but the blowers will continue to run for two or three minutes until all the unburned gases are blown out. When this happens and your heater is cool, the blowers will shut off automatically.

If you want to see more poop on these heaters, take a squint at TM 9-8662 (12 Mar 54.) Your personnel heater will keep you warm to temperatures as low as -25 degrees F. When the temperature gets lower than that, an engine heater together with your personnel heater is needed. TM 9-8662 gives you the poop on engine heaters. Paragraphs 26 to 48 tell you how to take care of your personnel heater. The parts bible for your personnel heater is SNL G-249, Vol. I.



This chart tells what winterization equipment is applicable for your M-series trucks. The type equipment you get depends on what iceberg you're squatting on — SB 9-16-will tell you what's used in what temperature.

VEHICLE	ARCTIC KIT	PERSONNEL HEATER KIT	POWER PLANT HEATER KIT	HARD TOP CLOSURE KIT G249-5701367 *G249-5701804	
1/4-Ton, 4x4, M38	G249-5701364	G249-5701365	G249-5701366		
1/4-Ton, 4x4, M38A1	G249-5701728	G249-5701729	G249-5701730	6249-5701731 *6249-5701804	
3/4-Ton, 4x4, M37	G249-5701368	G249-5701369	G249-5701370	G249-5701371	
2-1/2-Ton, 6x6 M44 Series	G249-5701355	6249-5701356	G249-5701357	6249-5701443	
2-1/2-Ton, 6x6 M133 Series	G249-5701463	G249-5701464	G249-5701465	G249-5701466	
5-Ton, 6x6 M39 Series	G249-5701467	G249-5701468	6249-5701469	G249-5701443	
*This is the stock number	for your canvas c	losure kit.			



DON'T SMOTHER YOUR ARTILLERY PIECE

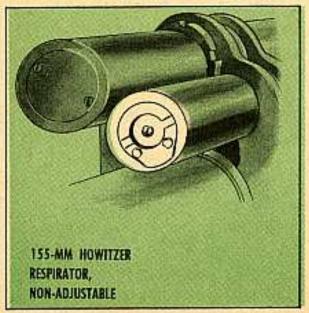
Take a deep breath and hold it for a moment, will'ya, 'cause this is all about the respiration on your hydropneumatic recoil mechanisms on field artillery.

Those mechanisms do a lot've breathing, too, and they gotta exhale that air
just like you do. That's why they have
a respirator, or similar device, on the
recoil or counter-recoil cylinder. Every
hydropneumatic's got one. Some of 'em,
like in the 105-mm howitzer, are adjustable. Some of 'em aren't. But they all
serve the same purpose. They help re-

Take a deep breath and hold it for duce the shock of counter-recoil by letmoment, will'ya, 'cause this is all ting air out of the cylinder easy-like.

> When they get stopped up with dirt, water, paint, grease, or what-have-you, the air doesn't escape in the right amount at the right time and you get a real nervous counter-recoil action.

> So the point of this long-winded yarn is this: To keep your weapon from pant in'and gaspin' and bucking in counterrecoil; make sure she's respiratin' all right. It'd be just plain foolishness to smother a good weapon.





HAVE YOURSELF A FIT

Some of you 155-mm howitzer men may be having trouble screwing a big nut with a little wrench.

The wheel spindle nut wrench (Ord Stock No. J013-5576543 or 41-W-3252-125) was designed for the small-type wheel spindles. When the new, larger-type spindles were put in, some of the wrenches were changed, but some of 'em weren't. So you may have a wrench with the spindle, or small end, too small to fit the wheel bearing retaining nut.



If you have one, you can make it work by cutting or grinding 1/8-in metal from the inside span.

DECAL DITHER?

Maybe it shouldn't happen, but sometimes the decals on the inside of your tanks get painted over or worn off—like those on the turret walls, recoil guards, and stowage boxes that say "safe", "canteen", "grenades", "off-on", etc.

These decals are important—but they're difficult to repaint or trace. So, what do you do?

Probably the people most concerned have been the rebuild shops; they get the stuff that's had the worst treatment. These general-type decals are not stocked in supply, so they resort to local procurement. Or, in some cases, stenciling.

But using units might find local procurement a little difficult. Even if your crewmen read Nipponese.

Grapevine has it that a move's afoot to get all necessary decals into regular supply system sometime in the future. But—for now your best bet's to latch onto a Joe who's handy with a paint brush. And if you're lucky, there'll be a new or rebuilt buggy around—with all decals intact—to use for a model.

There's a 1-in stencil outfit in your 2nd echelon common tool set. If you feel the need of something smaller, Quarter-master has a 1/2-in set available. It's QM Stock No. 42-S-23000-000 (FSN 7510-00-19045).

THINNER DOPE

Here's another reminder on the right stock numbers to use when you order paint and thinner for the antenna on the M33 fire control system.

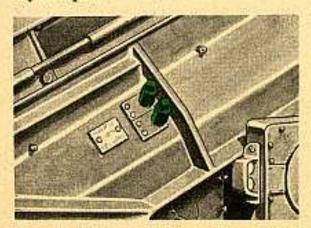
The paint is Enamel, synthetic, semigloss, air-drying, olive drab, No. 2430 (1 gal), Eng Stock No. 52-3476.017.100.

As for the thinner, you ask for Thinner, synthetic enamel, Eng Stock No. 52-7895.500.010.

This is different from the thinner stock numbers PS gave you on page 849 of Issue 18 and page 6 of Issue 22. Better make those changes pronto so you'll be getting the thinner you need.

PLEASE - THOSE NIPPLES ARE TENDER

Some folks have been having trouble with those recoil mechanism bufferassembly nipples breaking on their Skysweeper.



To keep those nipples (Ord Stock Nos. D048-7213477 and H106-0219-621) from going kaput, lay off that extra clbow grease. Those nipples will break when tightened too tight—so easy on them.

Bring them down good and snugnot too tight. When too tight they're put under strain and tension; then when the gun fires, shock does the dirty work.

That also goes for the nipples that go into counterecoil buffer assembly (Ord Stock No. D048-7213472). Also tube lock (Ord Stock No. D048-7213478) to nipple (Ord Stock Nos. D048-7213-477 and/or H106-0219621).

Watch those plugs (Ord Stock No. D048-7213475) too. Not too tight, please.

It's a good idea to replace gaskets (Ord Stock No. H002-0501215) if they look like they're too flat or damaged. It'll save that extra damage-causer twist.

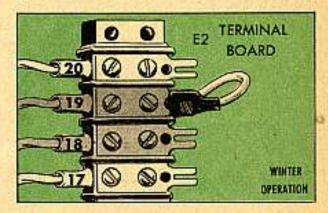
NIKE VAN BATS

Are you Nike guys keeping in mind that the charging rate for your trailer storage batteries is not the same for summer and winter?

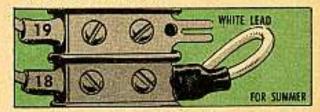
When the chill winds blow, y'need more juice to take care of the personnel heater load. But—you've got to use the lower rate in summer, or you overcharge.

Here's how the adjustment stacks up for your director station, launching control, radar tracking and maintenance vans:

Locate the E2 terminal board at the rear of the left wall in the compartment behind your battery charger meter panel.



For winter operation, the white lead should be connected to Terminal 19 of the E2 board.



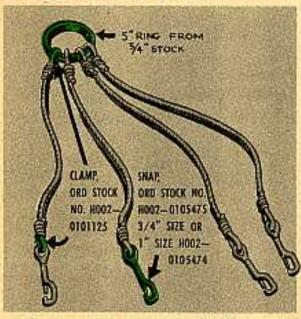
For summer operation, change the white lead to Terminal 18.

Thass all there is to it.

ACQ ANTENNA SLING

As you AAA men know, you sometimes have your acq antenna mounted on a platform to eliminate some of the ground clutter.

So it becomes a bit unhandy to lift the tubs and particularly the radome into place. Now if you can get the battery wrecker-man to help you, life is much simpler, **unless** you tear up the dome while you're hoisting it.



A sure way to prevent this is to make a sling like the one shown here. You need a steel ring, any size that will fit over the hook on the wrecker, four 6foot lengths of 3/8-in cable, and four snap hooks. You can either clamp the cables, as this man did, or if you happened to be a cable splicer, you could splice 'em in.

And never try to emplace or march order the acquisition without the wrecker. The old grunt-and-groan system tears up too many radomes.



TB Ord 605 (19 May 55) ends worrisome guesswork in checking Field
Artillery, Antiaircraft Artillery and
Combat Vehicle Armament Hydropneumatic Recoil Oils for emulsification, The TB supersedes all other dope
out on the subject—it's also being revised to cover all the above mentioned
weapons. It goes into detail on how to
spot oil that's been contaminated by
nitrogen or air.



Wouldn't happen in the desert—but it will at some posts where the weather is dampish.

Saw a colonel, no less, get a gig for tiny specks of rust on his weapon. And his wasn't the only speckled one around.

Seems as how these tiny specks of rust form on small arms and are hard as heck to get off. Bore cleaner is about the only thing that'll do it.

You have to bounce your eyeballs over your weapon in sunlight to see this stuff. Artificial light just won't get it.

Then you've got to keep her oiled proper.



FOGGY DIALS

Dear Sgt Dozer,

What's wrong with the hourmeters on our D4 and D8 Caterpillar tractors? The glass fogs up until it's impossible to get a dial reading. We had the meters removed, inspected and new gaskets installed, but no dice—the window still sweats. Do we have a couple of bum meters, or is the trouble somewhere else?

Sgt W. C.

Dear Sgt W. C.,

There'll be no sweat for you and your hourmeters if you'll try a minor fix for the meters' retainer assemblies. You need a small vent plug (Mfr's Part No. 4H7329) and a new retainer assembly (Mfr's Part No. 6B1914). You can take a gander at 'em in Fig A. Have your local purchase channels get these parts from the nearest Caterpillar agency. Your shop can put 'em together for you. The new #6B1914 retainer assembly has the hole for the plug, while the old assembly doesn't.

Be sure to tell your shop that the hole in the small plug must face the ground, or downward, when inserted into the new retainer assembly. To find which side of the retainer assembly faces downward, screw the assembly good and tight on the hourmeter housing and mark the bottom end of the retainer. Then remove the retainer and put the plug in so its little hole looks down on the mark you made.

If your shop can do the job, here's another angle on the hourmeter fix. Let them modify your old-type retainer assembly like this:

- Mark the bottom of the retainer assembly before you remove it.
- Remove and disassemble the retainer assembly and drill a 15/64" hole right smack in its middle (See Fig 2).
 - 3. Ream the hole to .257/.225".
- Press in the new vent plug with its hale facing the mark you made.
- Then put in a felt washer under the retainer's metal washer (like it shows in Fig 3) and reinstall the assembly.

Here're the parts you need to rework your old retainer assembly:

- 1-felt washer (Mfr's Part No. 4H6634)
- 1-vent plug (Mfr's Part No. 4H7327)
- 1-washer IMfr's Part No. 484277)

HEW VENT PLUG PRESSED INTO HOLE IN CENTER OF RETAINER ASSEMBLY



Fig



DRILL A 15/64" HOLE LIKE THIS AND REAM THE HOLE TO .257/.255".

NEW HOUR NETER RETAINER ASSEM-BLY HAS FELT WASHER TO FILTER AIR ENTERING HOUR METER THROUGH VENT PLUG.



Sgt Dozer

WARM FOR THIS FORM

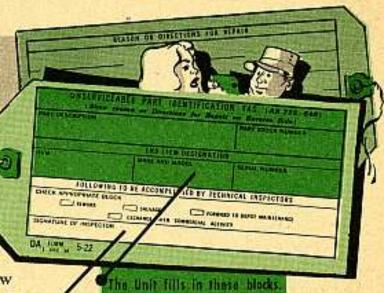
Be sure you
take a good look at AR
755-548, dated 14 Dec 1954,
'cause that one tells you how
to recover unserviceable recoverable spare parts and how to fill
out DA Form 5-22. That's the new
Unserviceable Part Identification Tag.
A unit uses this tag for all recoverable
repair parts that become unserviceable.
There's no mistaking this tag. It's as
green as an Irishman's tie on St. Patty's
day.

Remember, though, that this tag's for unserviceable recoverable parts, not for ones that're obviously scrap or salvage. You get rid of those like it tells you in AR's 755-5 and 755-7.

This new 5-22 tag's a real dandy. All you gotta do in the unit is fill out the first five blocks on the front side of the card. That includes the part description, stock number, name, make and model, and serial number of the end item.

After the unit fills out this part of the tag, it's turned in or sent to the unit's supporting field maintenance activity on a Turn-In slip (DA Form 447) or an Army Shipping Document, whichever's applicable.

When the tag gets to your field maintenance support activity, technical inspectors'll give the parts the once-over and decide what'll be done with 'em. The inspector will check one of the blocks on the bottom of the tag. This'll



This space is for the Field Maintenance Technical Inspector's decision The Technical Inspector also fills in the back side of the tag.

call for the part being either reworked, salvaged, forwarded to depot maintenance or exchanged with a commercial activity. If necessary, the inspector'll also fill in the back side of the tag that's used to give the reason or directions for repair.

Whenever possible, the turn-in of an unserviceable item and a replacement issue should occur at the same time. This doesn't mean, though, that the turn-in of a repair part isn't a completely separate transaction, 'cause it is.

There'll be some cases, of course, when like serviceable items can't be turned-in before or at the same time you request a replacement. When this happens, you'll state in the "Authority" block of the 446 that a like serviceable item will be turned-in promptly or give the reason why the like item isn't available for turn-in.

Simple, isn't it? Yep, the DA Form 5-22 is a real slick item when you use it right. Just follow the directions and you can't go wrong.

Pull up a chunk of ice and listen to the tale of-

BLOWTORCH JOE

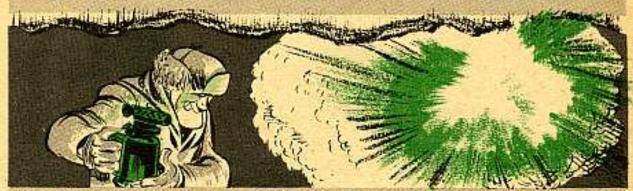
Remember the story about "Lucky Pierre" way back in PS Issue 11? Ah yes, Pierre was a lucky one all right. He never took care of his equipment and always seemed to get away with it, but he got his—in the end.

This one's about Pierre's buddy. His name was Blowtorch Joe, a real gone guy who thought the flame from a blowtorch was the solution to some of his winter maintenance problems. Like Pierre, Joe's taking harp lessons now. He finally learned his lesson, but it had to come the hard way.



It all happened one morning a coupla weeks ago. Joe, a crane carrier driver, was all set to start out on a job. It was one of those cold mornings with sub-zero temperatures. Now Joe was a good operator and a pretty fair mechanic, but he just didn't use his head when it counted most.

He knew that starting internal combustion engines in cold weather sometimes



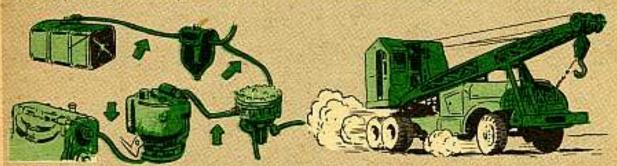
proved troublesome, because the fuel won't vaporize very well, crankcase oil gums up and batteries go flat. But Joe had the answer. He was going to handle this problem the easy way.

He ran into the shop and came out toting a blowtorch, his old standby. He started playing the blowtorch flame on the crankcase of the crane carrier and...then it happened...BLOOEY!



You can probably guess what happened. Needless to say, Joe won't be using a blowtorch any more, not for any purpose. What really happened was this:

When the flame from the torch warmed up the oil, it also drove off the lighter ends of the fuel that drained from the cylinders into the crankcase. The result the vaporized fuel exploded, and Joe never knew what hit him.



The boys in Joe's outfit will never forget that one. When they're getting ready to start up a vehicle in cold weather, they check for condensation in the fuel lines, use the right grade of oil and keep the batteries charged. They're not having any trouble. Sure, it takes a little longer, but it's a sure and safe method of getting the job done right.

the round - up HERE ARE SOME ENGINEER TO ADD TO YOUR PILE.

5-5051 Gen set, port, gas-drvn, skid-mtd, 5-kw, Onan mod 5A8Q-4M, 1955

5-4258 Wrench, gas-drvn, RR-mid Railroad Ac-cessories Corp mod C, 1959

5-9257 Truck, garbage, ld packer, 15-cu-yd cap, 5-ton, Leach mod, 17 Aug 55

5-5002 Gen set, port, del-fren, Consolidated Dal Elec mod 1664, 1955

5-5064 Gen set, elec, part, del-dren, Bude mod GP 30A3CE, 1955

5-5350 Compressor, air, 60-cy, American Brake Shoe mod 8-331-8, 21 Jul 55

5-9311 Winch, gen'i util, rev. rear mtg, 1 drum for treir mtg, Berg mod CB-3, 8 Aug 55

10%

5-4647 Brkr, pyng, pries., Cleco mod 8080, 5 Jul 55

5-4128 Saw, Jig. tble, mtr-drvn, Delta mod 40-305, 19 Aug 55

5-4490 Mower, lawn, rotary flat knife, Standard mod 3, 22 Aug 55

5-5016 Gen set, port., Onan mod 358, 23 Aug 55 5-5121 Welder, elec arc, 200 amp, skid-mbd, Hobart mod DW, 18 Aug 55

5-3150 Gen set, port, dsi-dryn, Witte Eng Wks mod Me 282, 23 Aug 55

S-9084 Trir, dump, 2-whi, 1/2-ton, airborne, Converto mod, 23 Aug 55

5-9189 los mkg unit, York mod DER-10, 19 Aug 55

5-1115 Loader, agg, bucket, tretr mig, N-R-S mod 72 GFEL, 15 Sep 55

5-1137 Mixer, concrete, gas-drvn, trir-mtd, KWIK-NIX mod 16-S, 15 Sep 55 5-6137 Printer Developer, Ozalid mod 76500, 16 Sep 55

ENG MWO's

5398-1: Compressor, air, skid-etd, ges-drvn, Ris mod 1262, 21 Sep 55

9095-1 ice Plant, 1-ton, skid-mod, Gas Refrig Engrg mod G-2000-550D, 16 Sep 55

8203-1 Semitrir, low bod, rear ldg, 60-ion and delly, 4-whi, 21 Sep 53 1165-1 Tank, asph, sti, trir-mid, 1500-gal, Littleford mod 1025, 19 Sep 55

5072-4 Gen set, elec port, Habart mod HF-30-G, 25 Aug 55

5166-3 Continental Engine mod M330, 20 Sep 55 8006-1, C1 Float, half, pneu, 12-ban, W/emer kit and carrying case, 20 Sep 55

TB's

5-2089-1 Pump, cent, 55GPM at 50-ft hd, Mar-lew mod 22U, 25 Aug 55

5-4480-1 Mower, lawn, retary flat kelfe, Stand-ard med 3, 24 Aug 55

5-5916-1 Cen set, port, Onen mod 358, 30 5-9038-1 PMS Plow, anow, Willet mod HRTA Heas trucky, 19 Sep 55

5-1137-1 Mixer, concrete, gas-drvn, trir-mid, KWIK-MIK mod 16-5, 19 Sep 55

5-5129-1 Welder, elec arc, 200-amp, trir-mid, Robart mod, 19 Sep 55

5-9357-1 Plow, snow, riry, Wm Brits mod M-9-275 (jess engine), 16 Sep 55

ENG 7 4 8's

4690 Breaker, paving, gas-drvn, 100-lb stae, 26 Aug 55

4230 Wrench, pneu, rev, 3/4 to 1-1/4 in bolt cap, Chicago Pneu 365-RP, 23 Aug 55 1028 Pump, Japh, trir-mtd, Littleford med

5369 Charger, battery, port, Continental Mirs mod L123, 23 Aug 55

1340, C1 Loader, agg, bucket, Frank G. Hough mod HM

1352 Shovel, credr, gasoline, 3/4-cu yd, Lima mod Paymaster-34, 12 Jul 55

\$026, C1 Gen set, port, gas-eng-dryn, skid-mtd, Onan mod W3M, 15 Sep 55

5060, C1 Motorized Air Comp, LeRoi mod 105GA, 2 Aug 55

\$111, C1 Comp, air, trir-mtd, Worthington mod 256.08, 15 Sep 55

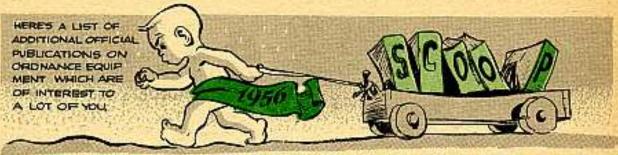
ENG 7, 8 & 9's

3300 Tractor, will, LeTourneau mod Super C Tournadezer, 13 Jul 55

9493 Crane-shit, PU, rev, crawler, 4-ton cap at 12-ft rad, 1/2 cu yd 12 Jul 55

1400-7 Cresher, roll-type, dsl-drm, Planeer mod 42-VDE, VAE, 29 Aug 55

9857 Crane-Sirvi, PU, res, crawler, 4-ton cap, 1/2-cs yd, Bucyrus-Erie 13-8, 13 Jul 55 9959 PCU, hydraulic-optg. 25 Aug 55



SUPPLY MANUALS

ord 9 SHL A-58 (10 11W3-7-2-54) Gan, submachine, cal. .45, M3, M3A1 Jan 55

Ord 9 SNL A-73 Sec 2 Repositioner, 20-mm, ML7 May 55

Ord 8 SHL F-15 Clinometer, machine gun, M1917 Jun 55

Ord 7 BHL F-342 AA FCS M33C, M33D, 133C, 133D May 55

Ovd 8 SNL 6-253 Gue, twin, 40-mm SP M42 (1342) Mar 55

Ord 5 SHL H-2 Miscellaneous hardware Jan 55 TM 9-6085 Motor drive M2AZ, Amplifier M1AZ Apr 55

MWO Ord D65-W1 Truck-mtd 762-mm rkt launcher XM289: Providing rocket traveling clamp assys with handles, F May 55

Ord 7 SNL A-55 Sec 18 (TO 11W2-8-30-4) NS, 1rk, podestal, M31A1, M31C Aug 55

Ord 8 SHL A-55 Sec 38 Nt, 50 cal machine gan, AA, (6580030), (8367286) Aug 35

ord 8 SNL A-35 Sec 44 Mt, ring, M66 Aug 55 Grd 8 SNL A-78 (TO 11W2-8-10-4) Mt, ball, cal. .30 (7722403) Aug 55

Ore 7 SHL 8-9 (TO 11W3-6-1-134) Shotgen, 12-ga, Slevens, M520-30, riot type, 20-in bri; snesgun, 12-ga, Stevens, M620A, riot type, 20-in bri; shotgen, 12-ga, Winchester, M1912, riot type, 20-in bri Sep 55

Ord 7 SNE 8-25 (TO 11W3-3-1-104) Pietol, auto, cal. .32, cal. .380, Coll Sep 55

ord 8 SNL 0-50 Mt, howitzer, 155-mm, MSD Sep 55

Ord & SHL 0-60 Mt, combo gun T148 Aug 55 Ord 6 SHL F-205 Aiming post light M14 and M41s Light, instru M2, M10, M12, M13, M18, M19, M22, M28, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39C, M42, M44, M45, M46, M50, T22, 6578454, 7983714, 8793476 Aug 55

ord 7 SHL F-238 (TO 49A1-2-24) Bizoc, M7, M15A1, M16, M17A1, Mk 21, Mk 22A1 Sep 55 dec 9 SHL F-342 Vol. 18 M33C and M33D AAA FCS vol. 38, list all service parts, cabinet radar (7622362) Sep 35

Ord 8 SHL F-961 Sight, M40 (T149E2) Sep 55 Ord 7 SHL G238, cl M37 105-mm SP howitzer Sep 55

Ors 8 SML 6-258 SP Howitzer, 105-mm, T98E1

Ord 9 SML 0-260 M75 personnel Carrier, Jul 55 Ord 7-8 SML G-315 Semitratier, van, retrigeralor, 7-1/2-lon, 2-wheel, M349 Sep 55

6rd 6 SHL J-16 Sec 15 Tool sets, fld, dep maint for 3/4-lon trk, SRL's G-741, G-502, G507 Sep 55

Gr6 6 SML J-16 Sec 61 Tool sets, fid, depot maint for GMC mod 302 engine used in: M59, M135, M213, M215, M220, M217, M322, M221 Sep 55

Ord 7-8 SML I-239 Grinding mach, utili Bench, 1/2-8p, 110-v, 60-c, agin-sh, whi size 7x1 in. (Brown-Brockmeyer, moles M3:5405-E5453, MS-745M-E5453, MS-554-E5453) (40-0-142-5) Sep 55 Grid 7-8 SML I-519 (TD 34F22-90-4) Grinder, elec: 1/2-bp, ac-dc, 115-v, wheel size 6-ia. (U.S. Elec Tool, mod 00 8 in.) (40-6-123-6); grinder, elec: 1/2-bp, ac-dc, 115-v, w/stand, wheel size 6-in. (U.S. Elec Tool mod 00 6-in.) (40-0-128-10) Sep 55

Ord 7-6 SHL J-780 Hammer, pneu: Rivet, 1/4in, cap (Ingersoll-Rand med AVC 13) (40-H-289) Sep 35

TECHNICAL MANUALS

SM 5-5-7240, 90 List current issue items—FSC grp 72—heahold, com furnishings and appli class 7240—hashold, comm util contamera; class 7290—mits hashold comm furnishings, appli Sep 35 TM 9-710, C3 M46, M46A1 mediam tanks Sep 50

1M 9-1955 Jatos, general Sep 55

TM 9-3038 155-mm gun M2, orrge M1, heavy orrpe limber M5 Sep 55

TN 9-5025 Paroramic 'scope T149£1 Sep 55 TN 9-520401 20-mm repositioner M17 Sep 55 SM 9-1-7105, 25, 95 List end thems alpht list-FSC gp 71-furmi-class 7105—household turniclass 7125—subitets, lockers, bins, shelvingclass 7125—misc furn fixtures Oct 55

SN 8-1-7240, 90 tist end items, alpha list— FSC gp 72—household, comm furnishings, appliances—class 7240—healtd, comm util containans class 7250—misc healtd, a comm furnishings, appliances Sep 55

SM 9-1-8010, 30, 40 List and items, arph list-FSC grp 80-brushes, paints, sealers, adhesives -class 8010-paints, depts, varnishes, re-lated preds; class 8030-pressyrative, sealing compds; class 8040-adhesives Sep 55

SM 9-1-9629, 50 List end items—alpha list— FSC grp 96 cres, minerals, primary prods class 9620—minerals, nat synthetic; class 9630—ambernous base metal refinery, intermediate forms Sep 55

SM 9-2-1000, 35 List all items, price list-FSC grp 10 wpns-class 1050-launthers, guided missile; class 1055-launthers, rocket, pyrotechnic Oct 55

SN 9-2-1090, 95 List all Hems, price Hist-FSC gm 10 wpra-class 1090-assys Inter-changeable betw wors in two or more classes; class 1095-mise wors Oct 35

SM 9-2-2430 List all items, price list-FSC grp 24 tractors-class 2430-bractors, track faying, high speed Sep 55

SM 9-2-3600 List all items, price list-FSC grp 39-elec and electron equip componentsclass 5560-electron tabes, transistors, rectilying crystals Oct 55

ORDNANCE MWO's

857-W3 260-mm gun T131: Replace obturator gas check pad, inner obturator ring with gad and ring of latest design, G-Sep 35

B85-W2 Trk-mid 762-mm rkt launcher XM289: Medily right side leveling jack assy so launcher be raised with downward stroke of jack handle, F Oct 55

pg5-W3 Trk-mid 763-mm rkt launcher XM289: Provide blast shield for main junct box cable, receplacie, F Oct 55

GISO-WS Tek tract 12-4 6x6, M26, M26A1: Proside drainage of accumulated water in vert lift support tubes, F Sep 55

6251-W11 M41, M41A1 tanks instal grip stops on engine compart access doors, grilles, F Oct 55

6254-W3 M48 tank: Replace defective-type person heater fuel shuloff cock w/new-type cock, 0 Sep 55

6254-W4 M48 tank: Saal breather tube holes in buildhead, filler pipe, F Sep 55

G254-W5 N48 Janks Install person healer external exhaust tubes, F Sep 55

6254-WG M48 tanks Instal capala door latch safety springs, 9 Sep 35

6234-W8 M48 tank- Instal gumeer's seat back rest quick release, 0 Sep 53

9254-W9 M48 tank: Instal cupola door look, F Sep 55

6290-W21 M75 personnel carrier: Replace engine manif attach paris, oil filler tute, gav shalt assy, etol fan comps, accy case elbows, bushings, F Sep 55

0280-W22 M75 personnel carrier: Eliminate Intermediate shock absorbers, F Oct 55

026-W32, C2 90-mm AAA mount MIA1, 90-mm guns M2, MIA1, MIA2, MIA3, Adopt gun, mount for use with FCS M33C, T33C, F Sep 55 F207-W11, C3 Remote control system MGA1: Modify the system for use with FCS M33D, 133D, F Sep 55

F26T-W14, C2 90-mm AAA mount MtA1: Medily remote control system M2 for use with FCS M33C, T33C, F Sep 55

F281-W3, C1 120-mm AAA mount NIA1, Modify fuse setter M38 to M38A1 for use with FCS M33D, T33D, F Sep 55

F211-W4, 62 90-rem AAA mount M2, M1A1: Madily haze setter M13 for use with FCS M13C, T33C, F Sep 55

F274-W3, C2 90-mm AAA mount M2: Modify amplifier M1A1, motor drive N2A1 to operate with FCS M33C, T33C, F Sep 55

F388-W3, C1 120-mm AAA mount M3A1: Nodify luce setter M19 to M19A1 for use with FCS M330, T330, F Seg 55

G262-W25 M47 task: Add return spring trt subfir pitins sept arm, F Sep 55

0268-W15 4x4 key gus-lifting year trk M250: Elimi trasfr assy oil leaks, 0 Sep 55

G268-W18 434 bay gan-lifting front trk M249, rear trk M250: Install of drain fitting on internationalism reservoir of main fuel tank, F Sep 35

6368-W17 4x4 hwy gus-lifting from tra M249; rear truck W250: Drill water drain holes in tool box, 0 Oct 55

6280-W1 N59 armd proni carrier: Weld road whi arm bumper (spring) asays to bumper brits, 9 Sep 55

TRIS

TB ORB 573, C1 200-KG gage test outlit 7120217: Selup, operation G, Sep 55

TB ORD 602, CI Control methods for cleaning, derust mils 9, Oct 55

TB 9-1819AB-6 Hydra-matic Trasman (CMC Mod 302M): Ideatif raws center gear lings bolls, reducts case-to-rear bring retain bolts 7, Sep 55

TB 9-8006-1 4c4 hay gun-liftling front irk M249, a rear trk M250: Care, maint nylon cord tires 0, Sep 55

TB 080 412 Procedures and methods for demilitarization of irreparable, obsolete, excess, or surplus implements of war, including lethal weapons 9, Jun 55

TB 080 597-18 (TO 3402-8-1-1) Elec opr armature mica undercutter (Allen Elec, Co. Med E-159, Lanagan & Hoke Mod 431) (4940-270-1594): Rebuild standards 0, Aug 55

TB GRD 597-26 Paint spray guns, Black Mtg Co mod B-8800-4R-1 (4940-251-8413); mod B-5500-4R-1 (4940-261-8414); Mod B-8900-4R-1 1 and B1900 (4940-261-8415); Rebuild standards B, Sep 55

TB 08D 597-27 Paint soray gans, Electric Sprayit Co Mod GG-501 (4940/251-8414); Med 02-593 (4940/261-8415); Rebuild standards 0, Sep 55

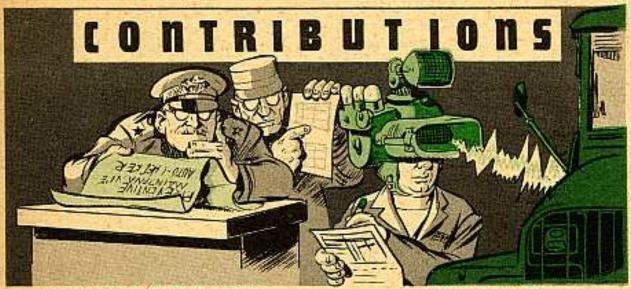
18 ORD 618 Tact commoli-type prime movers, trailed vehicls: intervehicular elec contections 0, Sep 55

MISCELLANEOUS

FT 105-40-2 (Abridged) Recolliess rifle, 105 mm, M27At firing shell, HEAT, M341, Aug 55 FT 106-A-1 (Abridged) Recolliess rille, 106mm, M40 firing shell, HEAT, N344, Aug 55 LO 9-7604 Cargo, carrier M76 amphib (T46E1),

to 9-8072-1 Oritis Mach, spright: Bench type, 1/4 hp, 115 v, 60 c, single phase, 1/4 inch capacity (6th Sped Hammer R-53), Aug 55

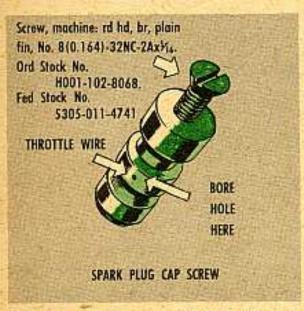
HOTE-On TB's, MWO's and SB's O-Organizational Maintenance F-Field Maintenance D-Depot Maintenance



SCREWY-BUT IT WORKS!

Dear Editor,

We've been having trouble getting throttle stops (the one on the end of the throttle cable) so here's how we've



made one from a commercial spark plug cap screw.

APO 949, Seattle

(Ed Note-If throttle stops G503-7371193 or G503-7371194 are scarce items your idea looks like a swell stop-gap.)

HEAVIER SOCKET

Dear Editor,

We are maintaining a number of M48 tanks, and I have a suggestion to make about the special tool sets being issued for work on these vehicles:

The standard 15/16-in 12-point socket, in both 1/2-in drive and even in the 3/4-in drive sets, will break when used to pull a very stubborn track-connector wedge-bolt. Not always, by any means, but too frequently.

We have found that the PROTO tool Company's Number 7830-H-15/16 heavy duty six point socket, 3/4-in drive will stand up to the work. We have yet to break our first one. This socket is designed to be used with an impact wrench, but it can be used with the regular 3/4-in drive T-bar very satisfactorily.

Another thing, if the recess around the heads of the track sprocket bolts were enlarged to accept a heavier socket, that too would prevent lots of wrench breakage.

> M/Sgt Clinton 702 Ord Co.

EASY KEPT OIL AND GAS RECORD

Dear Editor.

This is for those motor officers and motor sergeants who are always having trouble keeping the mileage chart for the (1,000 mile C) or (6,000 mile D) maintenance services.

We have eliminated charts, graphs, and records by using the oil and gas consumption report form for each vehicle to tell us when those maintenance services are due.

From the PM roster you post the due mileage of the next scheduled C or D maintenance to the oil and gas consumption report form, and when the dispatcher posts each

daily trip ticket to this form he'll compare the speedometer reading to the reading for the next scheduled C or D maintenance service.

Your TM 9-2810 allows you a 100-mile tolerance for the C (1,000 miles) service and a 300-mile tolerance for the D (6,000 miles) service. So when you transfer the mileage of the next C or D service from the PM roster to this form, you'll find it very wise to have the form read 100 miles less on C and 300 miles less on D. This will cause the dispatcher to notify the motor sergeant that maintenance can now be pulled on the vehicle.

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When the speedometer reading reaches 14,992 the vehicle has reached the 100 mile "C" tolerance zone and the "C" maintenance service can now be performed.

The oil and gas consumption report form will tell you how many miles the vehicle traveled during the month and the amount of oil and gas used. If the gas or oil used by some vehicles is much greater than others for the same mileage, then a check should be made to find the cause. (Might be carburetor, condition of engine, pilferage, etc.).

> Mr. Louie Shirrell Ft Knox, Ky.

(Ed Note—Par. 25, TM 9-2810 (Oct 53) gives the local commander the goahead on the use of whatever additional forms he feels are necessary for proper control of his vehicles.)



Generator protector

For you guys who have the Model C-37M ACF-Brill 37-passenger, bus, a lot of mud, dirt and other glob gets around the field coils and armature of the generator. If you'll take that bus back to Ordnance, they'll put a generator shield on for you like it says in MWO Ord G784-W1 (17 Mar 55).

Light tank edition

You can still get that special light tank issue, PS No. 14. Just drop me a card or letter in care of PS Magazine, Raritan Arsenal, Metuchen, N. J. Tell how many copies you need. They'll be mailed right to you.

Jeep curtains

No need to raise a lot of hullabaloo 'cause you can't find the stock numbers of the curtains for your 1/4-ton truck. Just grab a pencil—here they are: Curtain, left, door assy. (Ord Stock No. G740-7697413); Curtain, left, side quarter, assy. (Ord Stock No. G740-7697415); Curtain, right side quarter, assy. (Ord Stock No. G740-7697416); Curtain, right, door assy. (Ord Stock No. G740-7697414).

Pressure note

To stop the pressurized cooling system in your M38A1 Jeep and M170 front line ambulance from pulling an Old Faithful, make sure the temperature of your coolant is below 200 degrees before slowly loosening the radiator filler cap. Remove the cap only after the pressure has escaped.

Jeep harness

If you've got an M38 Jeep that needs a wiring-harness-assembly — as of now you have to make one. Use cable (Ord Stock No. H005-0812364) and the necessary parts from Douglas connector kit (Ord Stock No. H020-5701060). A wiring-harness-assembly is on its way into the supply system. Until it gets there you'll have to make your own.

It's new poop

Did you get hold of Change 1 (30 Mar 55) to TM 9-8022 yet? If not, grab your copy of this new manual on the M44 series trucks and make a note by the tire pressure specs on page 62 that the dualwheeled jobs take 45-PSI when traveling over highways and cross-country.

