TM 9-2350-277-20-6

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR
CARRIER, PERSONNEL, FULL TRACKED, ARMORED M113A3
2350-01-219-7577 (EIC AEY)

CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)

CARRIER, ANTI-TANK (TOW), FULL TRACKED, ARMORED M901A3
2350-01-369-7253 (EIC AFD)

CARRIER, FIRE SUPPORT PERSONNEL, FULL TRACKED, ARMORED M981A3
2350-01-369-6079 (EIC AFB)

CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)

CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082 (EIC AE8)

CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM (SICPS) M1068A3
2350-01-369-6086 (EIC AFC)

CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654 (EIC 5CG)

SUPERSEDURE NOTICE — This manual supersedes TM 9-2350-277-20 dated 24 July 1994, including all changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

2 January 2001

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 02 January 2001

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REPLACE FUEL SELECT SWITCH TO GAUGE LEAD (ALL EXCEPT M577A3 AND M1068A3)....0281 00
REPLACE INSTRUMENT PANEL ON-OFF SWITCHES....0282 00
REPLACE MAIN LIGHT SWITCH....0283 00
REPLACE ENGINE START SWITCH....0284 00
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REPLACE PANEL LIGHTS AND INDICATOR LIGHTS....0286 00
REPLACE INSTRUMENT PANEL WARNING LIGHTS....0287 00
REPLACE INSTRUMENT WARNING LIGHT PANEL....0288 00
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REPLACE INSTRUMENT PANEL SPECIAL PURPOSE CABLE....0290 00
REPLACE WARNING LIGHT PANEL ASSEMBLY (ALL EXCEPT M58)....0291 00
REPLACE WARNING LIGHT PANEL (ALL EXCEPT M58)....0292 00
REPLACE HORN SWITCH (ALL EXCEPT M58)....0293 00
REPLACE HORN SWITCH (M58 ONLY)....0293 01
REPLACE WARNING PANEL LIGHTS (ALL EXCEPT M58)....0294 00
REPLACE WARNING PANEL LIGHTS (M58 ONLY)....0294 01
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REPLACE RIGHT STOP LIGHT-TAIL LIGHT (M577A3 ONLY)....0301 00
REPAIR RIGHT STOP LIGHT-TAIL LIGHT....0302 00
REPLACE SERVICE AND INFRARED HEADLIGHTS....0303 00
REPAIR SERVICE AND INFRARED HEADLIGHTS....0304 00
REPLACE BLACKOUT HEADLIGHT....0305 00
REPAIR BLACKOUT HEADLIGHT....0306 00
REPLACE BLACKOUT MARKER LIGHT....0307 00
REPAIR BLACKOUT MARKER LIGHT....0308 00
REPLACE DOME LIGHT (ALL EXCEPT M577A3 AND M1068A3)....0309 00
REPAIR DOME LIGHT (ALL EXCEPT M577A3 AND M1068A3)....0310 00
REPLACE DOME LIGHT (M577A3 AND M1068A3 ONLY)....0311 00
REPAIR DOME LIGHT AND MOUNT (M577A3 AND M1068A3 ONLY)....0312 00
REPLACE DOME LIGHT LENS (ALL EXCEPT M577A3 AND M1068A3)....0313 00
REPLACE FRONT DOME LIGHT SWITCH (M577A3 AND M1068A3 ONLY)....0314 00
REPLACE REAR DOME LIGHT SWITCH (M577A3 AND M1068A3 ONLY)....0315 00
REPLACE DOME LIGHT CIRCUIT BREAKER (M577A3 AND M1068A3 ONLY)....0316 00
REPLACE DOME BLACKOUT LIGHT BYPASS SWITCH (M577A3 AND M1068A3 ONLY)....0317 00
REPLACE TENT LIGHT ASSEMBLY (M577A3 AND M1068A3 ONLY)....0318 00
REPLACE UTILITY LIGHT (M981A3 ONLY)....0319 00
REPLACE ENGINE OIL LOW PRESSURE TRANSMITTER AND HARDWARE....0320 00
REPLACE COOLANT TEMPERATURE TRANSMITTER....0321 00
REPLACE TRANSMISSION OIL HIGH TEMPERATURE SWITCH....0322 00
REPLACE GENERATOR FIELD PRESSURE SWITCH....0323 00
REPLACE FUEL SUPPLY PRESSURE TRANSDUCER....0324 00
REPLACE FUEL RETURN PRESSURE TRANSDUCER....0325 00
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REPLACE AIR BOX PRESSURE TRANSDUCER....0327 00
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DISCONNECT/CONNECT BATTERY GROUND LEAD (M981A3 ONLY).....0339 00
REPLACE BATTERY LEADS AND TERMINALS (M113A3, M901A3, AND M1059A3 ONLY).....0340 00
REPLACE BATTERY LEADS AND TERMINALS (M577A3 AND M1068A3 ONLY).....0341 00
REPLACE BATTERY LEADS AND TERMINALS (M981A3 ONLY).....0342 00
REPLACE BATTERY LEADS AND TERMINALS (LEFT SIDE) (M1064A3 ONLY).....0343 00
REPLACE BATTERY LEADS AND TERMINALS (RIGHT SIDE) (M1064A3 ONLY).....0344 00
REPLACE BATTERY LEADS AND TERMINALS (M58 ONLY).....0345 00
REPLACE BATTERIES AND RETAINERS (M113A3, M901A3, AND M1059A3 ONLY).....0346 00
REPLACE BATTERIES AND RETAINERS (M577A3 AND M1068A3 ONLY).....0347 00
REPLACE BATTERIES AND BATTERY BOX (M981A3 AND M58 ONLY).....0348 00
■ REPLACE BATTERIES AND RETAINERS (M1064A3 ONLY).....0349 00
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REPAIR BATTERY BOX ACCESS COVER (M577A3 AND M1068A3 ONLY).....0352 00
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REPAIR BATTERY BOX (RIGHT SIDE) (M1064A3).....0354 00
REPLACE BATTERY BOX VENT FITTING (M981A3 AND M58 ONLY).....0355 00
REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6) (M113A3, M901A3, AND M1059A3 ONLY).....0356 00
REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6) (M577A3 AND M1068A3 ONLY).....0357 00
REPLACE BATTERY TO MASTER SWITCH LEAD (CIRCUIT 6) (M1064A3 ONLY).....0358 00
REPLACE ENGINE WIRING HARNESS.....0359 00
REPLACE TRANSMISSION WIRING HARNESS.....0360 00
REPLACE TRANSMISSION CONTROLLER WIRING HARNESS.....0361 00
REPLACE REAR MAIN WIRING HARNESS (M113A3, M901A3, M981A3, M1059A3, AND M58).....0362 00
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REPLACE REAR MAIN WIRING HARNESS (M1064A3 ONLY).....0364 00
REPLACE REAR MAIN WIRING HARNESS (M1068A3 ONLY).....0365 00
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■ REPLACE STEERING LOCK SWITCH WIRING HARNESS (ALL EXCEPT M58).....0367 00
■ REPLACE STEERING LOCK SWITCH WIRING HARNESS (M58 ONLY).....0367 01
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REPLACE WARNING PANEL WIRING HARNESS.....0374 00
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REPLACE RADIAC WIRE HARNESS (M113A3, M577A3, AND M1068A3 ONLY).....0376 00
REPLACE UTILITY OUTLET LEAD ASSEMBLY (M577A3 AND M1068A3 ONLY).....0377 00
REPLACE REAR UTILITY OUTLET RECEPTACLES (M577A3 AND M1068A3 ONLY).....0378 00
REPLACE AUXILIARY POWER (SLAVE) RECEPTACLE GROUND LEAD (M113A3, M901A3, M1059A3, M1064A3, AND M58 ONLY).....0379 00
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REPLACE TRANSMISSION RANGE CONTROLLER/BRACKET (USED WITH CABLE-ACTIVATED STEERING LOCK).....0387 00
REPLACE TRANSMISSION RANGE CONTROLLER LAMP.....0388 00
REPLACE TRANSMISSION RANGE CONTROLLER SWITCH.....0389 00
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REPLACE TOW START CONTROL ASSEMBLY AND BEARING.....0391 00
REPLACE TOW START CONTROL ASSEMBLY COVER.....0392 00
ADJUST TRANSMISSION STEERING.....0393 00
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REPLACE TRANSMISSION OIL LEVEL DIPSTICK, FILLER TUBE, AND ADAPTER (X200-4 ONLY).....0395 00
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■ REPLACE DRIVER'S HATCH NIGHT VISION GUARD (M58 ONLY)....0536 01
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REPLACE FLOOR PLATES (M1059A3 ONLY)....0542 00
REPLACE FLOOR PLATES (M1064A3 ONLY)....0543 00
REPLACE FLOOR PLATES (M1068A3 ONLY)....0544 00
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REPLACE PERSONNEL SEATS, CUSHIONS, AND BELTS (M577A3 ONLY)....0547 00
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REPLACE ANTENNA COVERS (ALL EXCEPT M981A3)....0576 00
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REPLACE LEFT TABLE (M577A3 ONLY)....0578 00
REPLACE RIGHT FRONT RADIO STOWAGE RACK (M577A3 ONLY)....0579 00
REPLACE MAP BOARD (M577A3 ONLY)....0580 00
REPLACE RIGHT FORWARD TABLE (M577A3 ONLY)....0581 00
REPLACE RIGHT REARWARD TABLE (M577A3 ONLY)....0582 00
REPLACE M26 PERISCOPE/MOUNT (M901A3 AND M981A3 ONLY)....0583 00
REPAIR M26 PERISCOPE MOUNT (M901A3 AND M981A3 ONLY)....0584 00
REPLACE PERISCOPE MOUNTING BRACKET (M901A3 AND M981A3 ONLY)....0585 00
REPLACE/REPAIR RAMP VISION PORT AND SHIELD (M901A3, M981A3, AND M58 ONLY)....0586 00
REPLACE AMMUNITION STOWAGE RACK (M901A3 ONLY)....0587 00
REPLACE MISSILE RACK (M901A3 ONLY)....0588 00
REPLACE MISSILE RACK RETAINERS (M901A3 ONLY)....0589 00
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REPLACE SIDE ARMOR (M901A3 ONLY)....0594 00
REPLACE LAUNCHER LOW-STOW STOWAGE BRACKET(M901A3 ONLY)....0595 00
REPLACE LOW-STOW CUSHION BASE (M901A3 ONLY)....0596 00
REPLACE/REPAIR ELECTRICAL EQUIPMENT RACK ASSEMBLY (M981A3 ONLY)....0597 00
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REPLACE CABLE REEL HOLDER ASSEMBLY (M981A3 AND M1064A3 ONLY).....0603 00
REPAIR CABLE REEL HOLDER ASSEMBLY (M981A3 AND M1064A3 ONLY).....0604 00
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REPLACE HORIZONTAL AMMUNITION RACK (M1064A3 ONLY) 0606 00
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REPLACE VERTICAL AMMUNITION RACK (M1064A3 ONLY).....0608 00
REPLACE RADIO STOWAGE RACK (M1064A3 ONLY).....0609 00
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REPLACE PERISCOPE STOWAGE BOX (M1064A3 ONLY).....0611 00
REPLACE RIFLE RACK (M1064A3 ONLY).....0612 00
REPLACE SIGHT EXTENSION ARM STOWAGE BRACKETS (M1064A3 ONLY).....0613 00
REPLACE WINDSHIELD STOWAGE BRACKET (M1064A3 ONLY).....0614 00
REPLACE MORTAR BASE STOWAGE BRACKET (M1064A3 ONLY).....0615 00
REPLACE LEFT SIDE RACK BASE (M1068A3 ONLY).....0616 00
REPLACE PERSONNEL HEATER CONTROL BOX AND INTERCOM BOX BRACKET (M1068A3 ONLY).....0617 00
REPLACE/REPAIR MAP BOARD (M1068A3 ONLY).....0618 00
REPLACE MAP STORAGE BOX (M1068A3 ONLY).....0619 00
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REPLACE TACHOMETER CABLE....0864 00
REPAIR TACHOMETER CABLE....0865 00

CHAPTER 26 — UNIT MAINTENANCE INSTRUCTIONS FOR VENTILATING FANS AND BLOWERS (M901A3 AND M981A3 ONLY)

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REPLACE DVE SENSOR SET ASSEMBLY POWER CABLE (M58 ONLY).....0866 01
REPLACE DRIVER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY).....0866 02
REPLACE AN/VAS-5 DRIVER'S VISION ENHANCER STOWAGE BRACKET (M58 ONLY).....0866 03
REPLACE DRIVER'S VISION ENHANCER (DVE) AN/VAS-5 POWER SUPPLY CABLE (M58 ONLY).....0866 04
REPLACE AN/VAS-5 DRIVER'S NIGHT VISION ENHANCER SENSOR SET ASSEMBLY ADAPTER (DVE) (M58 ONLY).....0866 05
REPLACE COMMANDER'S DISPLAY MOUNTING BRACKET (DVE) (M58 ONLY) 0866 06

CHAPTER 27 — UNIT MAINTENANCE INSTRUCTIONS FOR PRECISION INSTRUMENTS AND SYSTEMS

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REPLACE STE/ICE SHUNT GUARD (M113A3, M901A3, AND M1059A3 ONLY)….....0868 00
REPLACE STE/ICE SHUNT GUARD (M981A3 ONLY).....0869 00
REPLACE STE/ICE SHUNT (M113A3, M901A3, AND M1059A3 ONLY).....0870 00
REPLACE STE/ICE SHUNT (M577A3 AND M1068A3 ONLY).....0871 00
REPLACE STE/ICE SHUNT (M981A3 ONLY).....0872 00
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REPLACE STE/ICE DISTRIBUTION BOX (M113A3, M901A3, AND M1059A3 ONLY).....0874 00
REPLACE STE/ICE DISTRIBUTION BOX (M577A3 AND M1068A3 ONLY).....0875 00
REPLACE STE/ICE DISTRIBUTION BOX (M981A3 ONLY).....0876 00
REPLACE STE/ICE DISTRIBUTION BOX (M1064A3 ONLY).....0877 00
REPLACE STE/ICE CREW WIRING HARNESS (M113A3, M901A3, AND M1059A3 ONLY).....0878 00
REPLACE STE/ICE CREW WIRING HARNESS (M577A3 AND M1068A3 ONLY).....0879 00
REPLACE STE/ICE CREW WIRING HARNESS (M981A3 ONLY).....0880 00
REPLACE STE/ICE CREW WIRING HARNESS (M1064A3 ONLY).....0881 00
REPLACE STE/ICE ENGINE WIRING HARNESS.....0882 00

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COMMUNICATION CABLING DIAGRAM (M58 ONLY).....0884 00
REPLACE INTERCOMMUNICATIONS SET CONTROL (M901A3 AND M58 ONLY).....0885 00
REPLACE ANTENNA (M901A3 ONLY).....0886 00
REPLACE AS3916/VRC ANTENNA (M58 ONLY).....0887 00
REPLACE INTERCOM AMPLIFIER (M901A3 AND M58 ONLY).....0888 00
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REPLACE PORTABLE FIRE EXTINGUISHER MOUNT (ALL EXCEPT M1068A3) 0895 00
REPLACE FIRE EXTINGUISHER AND MOUNT (M1059A3 ONLY) 0896 00
REPLACE/REPAIR PORTABLE FIRE EXTINGUISHER MOUNT (M1068A3 ONLY) 0897 00
REPLACE FIXED FIRE EXTINGUISHER CYLINDER AND MOUNT 0898 00
REPLACE CYLINDER DISCHARGE TUBES 0899 00
REPLACE TURBINE CYLINDER DISCHARGE TUBES (M58 ONLY) 0900 00
REPLACE EXTERNAL HANDLE SHIELD (M113A3, M901A3, M981A3, AND M1059A3 ONLY) 0901 00
REPLACE EXTERNAL HANDLE SHIELD (M577A3 AND M1068A3 ONLY) 0902 00
REPLACE EXTERNAL HANDLE SHIELD (M1064A3 ONLY) 0903 00
REPLACE FIRE EXTINGUISHER CONTROL VALVE AND EXTERNAL HANDLE 0904 00
REPLACE EXTERNAL CABLE TUBE 0905 00

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REPLACE M25/M25A1 HOSE ASSEMBLY (M981A3 ONLY) 0907 00
REPLACE M25/M25A1 VFM ORIFICE CONNECTOR ASSEMBLY (M981A3 ONLY) 0908 00
REPLACE PRECLEANER/PARTICULATE FILTER ASSEMBLY (M981A3 ONLY) 0909 00
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REPLACE/REPAIR VFM POWER DISTRIBUTION PANEL ASSEMBLY (M981A3 ONLY) 0913 00
REPLACE NBC AIR PURIFIER AND FRAME (M58 ONLY) 0914 00
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REPLACE NBC ORIFICE CONNECTOR ASSEMBLY, MOUNTING BRACKET, AND SWITCH (M58 ONL) 0916 00
REMOVE/INSTALL NBC CABLE ASSEMBLY (M58 ONLY) 0917 00
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REPLACE CHEMICAL ALARM REFILL TRAY BRACKET (M113A3 ONLY) 0922 00
REPLACE CHEMICAL ALARM M43 UNIT INTERFACE WIRING HARNESSES (M113A3 ONLY) 0923 00

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CHAPTER 24

UNIT MAINTENANCE INSTRUCTIONS FOR ELECTRICAL EQUIPMENT (M1068A3 ONLY)

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REPLACE SIGNAL PATCH PANEL BOX A10 (M1068A3 ONLY)	0816 00
REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068A3 ONLY)	0817 00
REPLACE EXTERNAL COMMUNICATION BOX A11 LID AND LATCHES (M1068A3 ONLY)	0818 00
REPLACE CURBSIDE DATA PANEL ASSEMBLY A12 (M1068A3 ONLY)	0819 00
REPLACE LAN GROUND BOX ASSEMBLY A15 (M1068A3 ONLY)	0820 00
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REPLACE/REPAIR PRINTER MOUNT (M1068A3 ONLY)	0823 00
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REPAIR POWER CONTROL ENCLOSURE FACEPLATE AND BRACKET (M1068A3 ONLY)	0828 00
REPLACE POWER CONTROL ENCLOSURE CIRCUIT 44A LEAD (M1068A3 ONLY)	0829 00
REPLACE INVERTER HOUSING A2 TERMINAL BLOCKS TB1 AND TB2 (M1068A3 ONLY)	0830 00
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REPAIR CABLE ASSEMBLY (W4/W6) (M1068A3 ONLY)	0841 00
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REPLACE AC POWER EXTENSION CABLE (W8) (M1068A3 ONLY)	0843 00
REPLACE DC POWER EXTENSION CABLE (W10) (M1068A3 ONLY)	0844 00
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REPLACE APIU RACK MOUNT AND BRACKET (M1068A3 ONLY) 0813 00

THIS WORK PACKAGE COVERS:

Removal (page 0813 00-1).
Installation (page 0813 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Locknut (15)

Personnel Required

Unit Mechanic

References

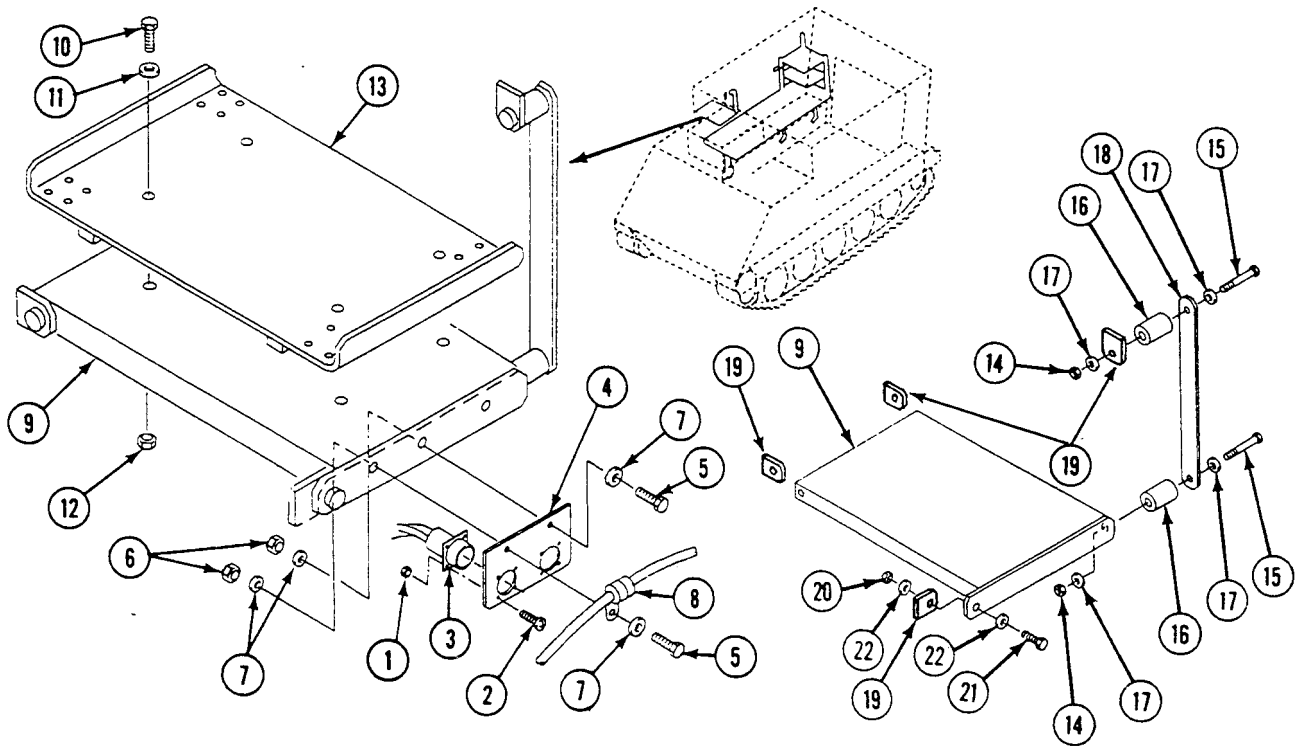
See your -10
TM 11-7010-256-12&P

Equipment Condition

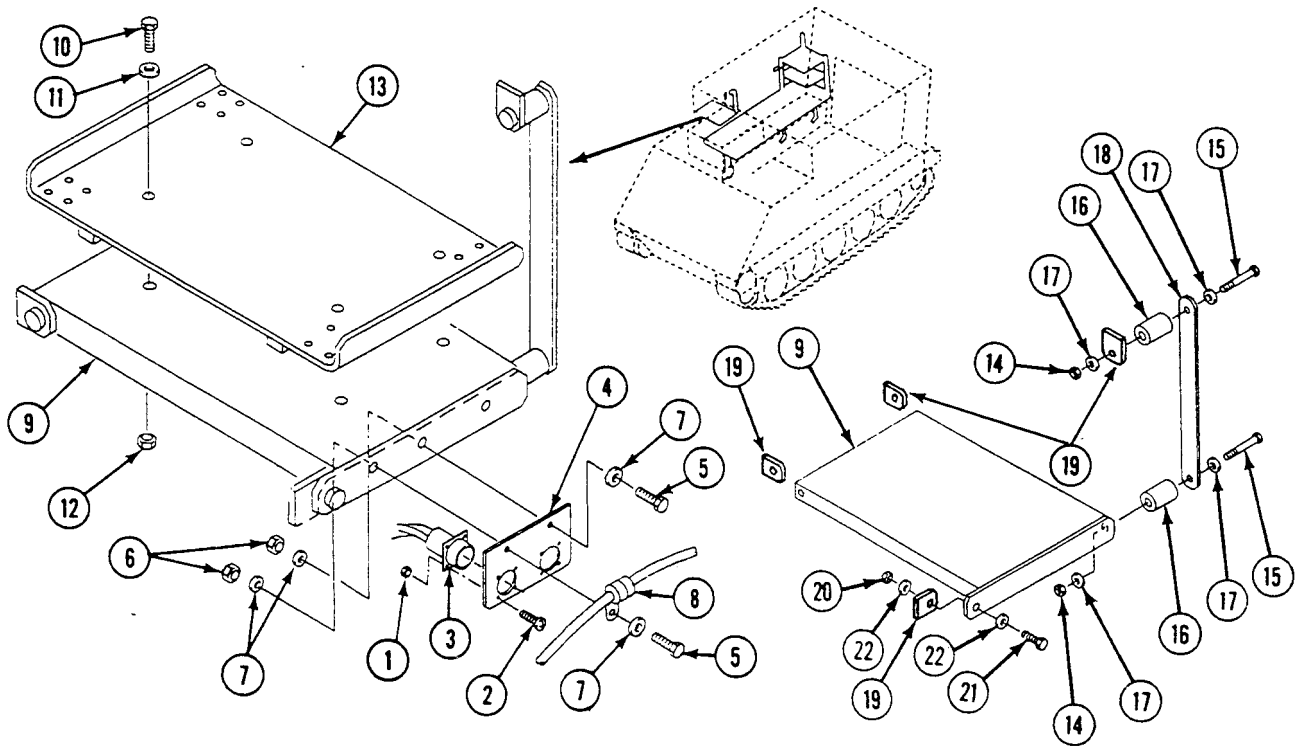
Engine stopped (see your -10)
Carrier blocked (see your -10)
All external power disconnected
Electronic communication equipment removed (TM 11-7010-256-12)
Curbside data panel assembly A12 removed (WP 0819 00)
Battery ground lead disconnected (WP 0338 00)

REMOVAL

1. Remove four locknuts (1), screws (2), and receptacle (3) from bracket (4). Discard locknuts.
2. Remove two screws (5), locknuts (6), four washers (7), clamp (8), and bracket (4) from APIU rack (9). Discard locknuts.
3. Remove four screws (10), washers (11), locknuts (12), and mount (13) from APIU rack (9). Discard locknuts.



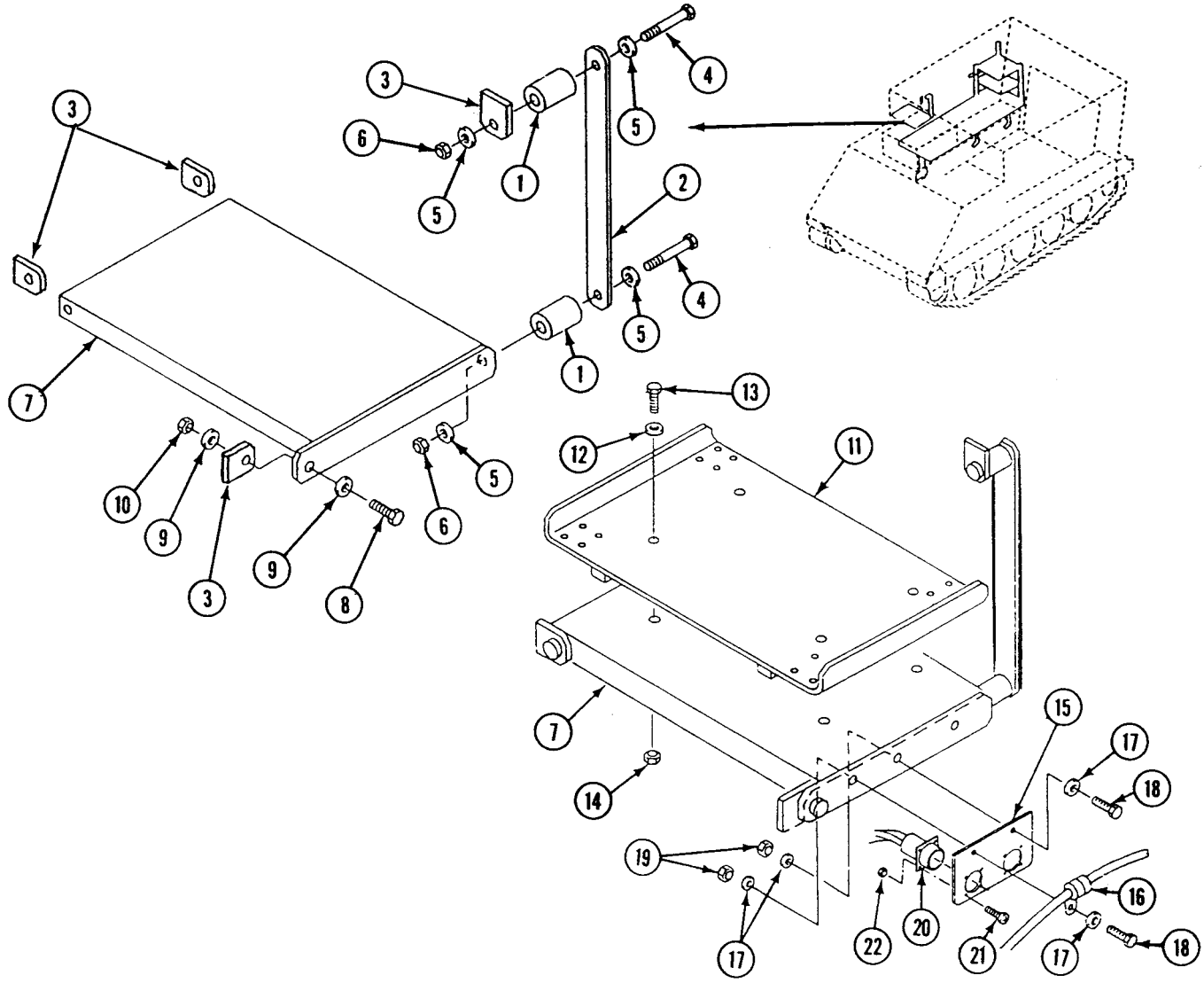
4. Remove two locknuts (14), screws (15), spacers (16), washers (17), and hanger (18) from bulkhead mount (19) and rack (9). Discard locknut.
5. Remove three locknuts (20), screws (21), six washers (22), and rack (9) from three bulkhead mounts (19). Discard locknuts.



INSTALLATION

1. Align spacer (1) and hanger (2) with bulkhead mount (3). Secure with screw (4), two washers (5), and new locknuts (6).
2. Align rack (7) with three bulkhead mounts (3). Secure with three screws (8), six washers (9), and new locknuts (10).
3. Position spacer (1) between rack (7) and hanger (2). Secure with screw (4), two washers (5), and new locknut (6).
4. Install mount (11) on APIU rack (7). Secure with four washers (12), screws (13), and new locknuts (14).
5. Install bracket (15) and clamp (16) on APIU rack (7). Secure with four washers (17), two screws (18), and new locknuts (19).

6. Install receptacle (20) on bracket (15). Secure with four screws (21) and new locknuts (22).



FOLLOW-THROUGH STEPS

1. Connect battery ground lead (WP 0338 00).
2. Install electronic communication equipment (TM 11-7010-256-12&P).
3. Install curbside data panel assembly A12 (WP 0819 00).

END OF TASK

REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068A3 ONLY) 0814 00

THIS WORK PACKAGE COVERS:

Removal (page 0814 00-1).
Installation (page 0814 00-2).

INITIAL SETUP:

Maintenance Level
Unit

Tools and Special Tools
General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts
Locknut (10)

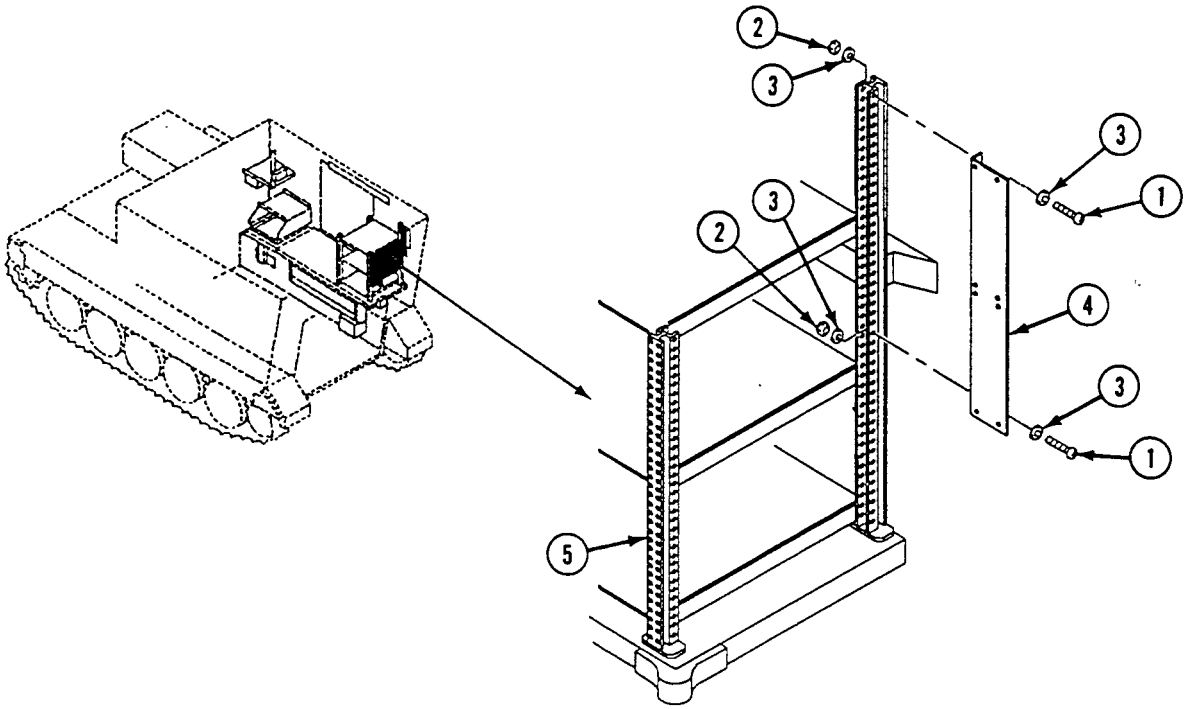
Personnel Required
Unit Mechanic

References
See your -10

Equipment Condition
Engine stopped (see your -10)
Carrier blocked (see your -10)
A.C. power extension box A7 removed (WP 0815 00)
LAN ground box assembly A15 removed (WP 0820 00)

REMOVAL

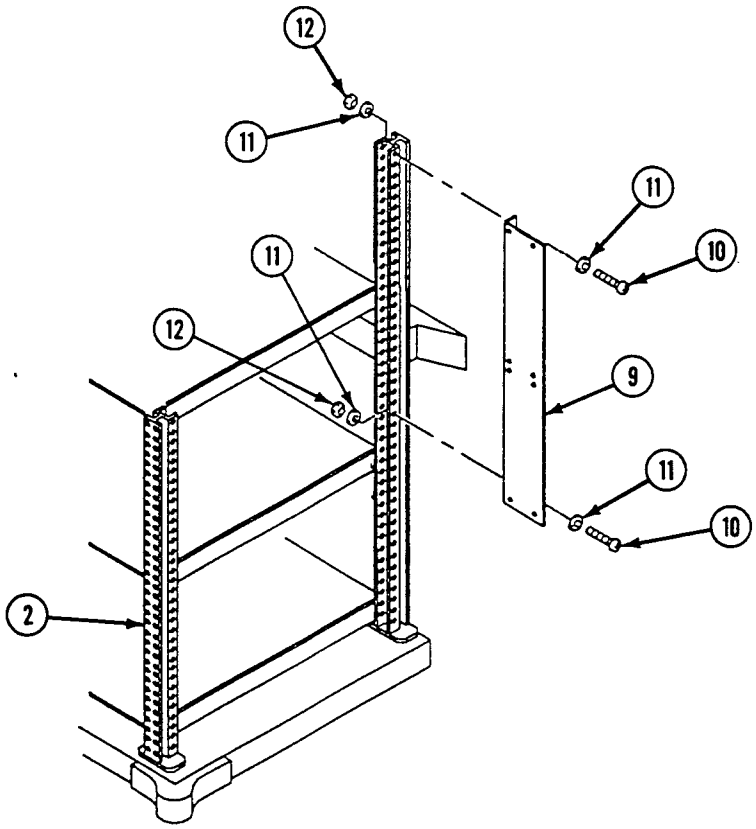
1. Remove three screws (1), locknuts (2), six washers (3), and mount (4) from right equipment rack (5). Discard locknuts.



REPLACE RIGHT EQUIPMENT RACK BRACKETS AND MOUNTS (M1068A3 ONLY) — Continued **0814 00**

INSTALLATION

1. Install mount (9) on right equipment rack (2) with three screws (10), six washers (11), and three new locknuts (12).



FOLLOW-THROUGH STEPS

1. Install LAN ground box assembly A15 (WP 0820 00).
2. Install A.C. power extension box A7 (WP 0815 00).

END OF TASK

REPLACE A.C. POWER EXTENSION BOX A7 (M1068A3 ONLY) 0815 00

THIS WORK PACKAGE COVERS:

Removal (page 0815 00-1).
Installation (page 0815 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Materials/Parts

Locknut (4)

Personnel Required

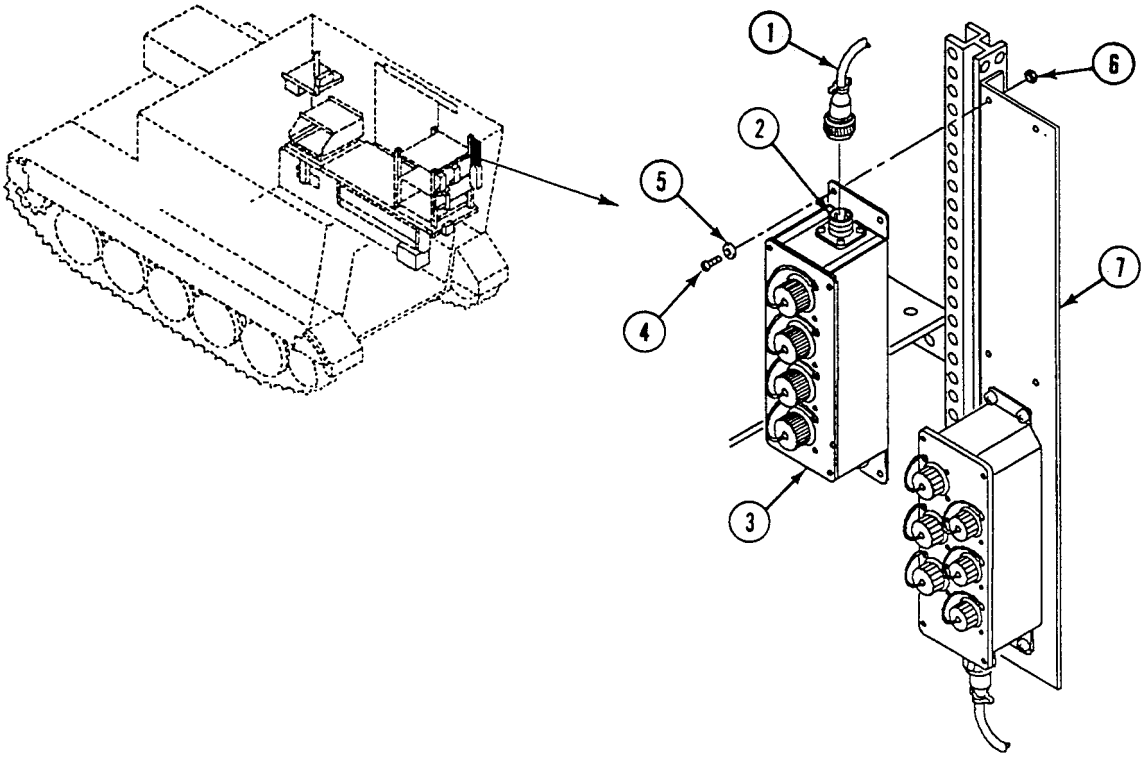
Power-Generation Equipment Repairer 52D10

References

See your -10
TM11-7010-256-12&P

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
All external power disconnected (TM11-7010-256-12&P)
Battery ground lead disconnected (WP 0338 00)

REMOVAL

1. Disconnect cable W8 (1) from connector J1 (2) on A.C. power extension box A7 (3).
2. Remove four screws (4), washers (5), locknuts (6), and A.C. power extension box A7 (3) from mount (7). Discard locknuts.