

MIL-T-46780D(AT)
Amendment 3
14 February 1985
SUPERSEDING
Amendment 2
16 November 1981

MILITARY SPECIFICATION

TRUCKS; 2 1/2 TON, 6 X 6, MILITARY DESIGN, M44A2 MULTI-FUEL ENGINE SERIES

This amendment forms a part of Military Specification MIL-T-46780D(AT), dated 23 February 1973, and is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

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2.1, under "SPECIFICATIONS, FEDERAL", delete:

"O-A-548 - Antifreeze, Ethylene Glycol.
VV-B-680 - Brake Fluid, Automotive."

2.1, under "SPECIFICATIONS, MILITARY", delete:

"MIL-L-10295 - Lubricating Oil, Internal-combustion Engine, Subzero.
MIL-L-10324 - Lubricating Oil, Gear, Subzero.
MIL-P-12098 - Preservative, Hydraulic Brake Systems and Components.
MIL-S-13518 - Sealer, Surface, Wood, Preservative,
MIL-H-13910 - Hydraulic Fluid, Non-petroleum Base Automotive Brake,
 Arctic.
MIL-H-13919 - Hydraulic Fluid, Petroleum Base Fire Control.
MIL-L-45199 - Lubricating Oil, Internal-combustion Engines.
*MIL-P-46046 - Preservative, Fluid Automotive Brake.

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2.1, under "SPECIFICATIONS, MILITARY", add:

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| "MIL-A-46153 | - Antifreeze, Ethylene Glycol, Inhibited Heavy Duty, Single Package. |
| MIL-L-46167 | - Lubricating Oil, Internal Combustion Engine, Arctic. |
| MIL-B-46176 | - Brake Fluid, Silicone Automotive, All Weather, Operational and Preservative." |

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2.1, lines 1 and 2, delete in their entirety.

2.1, lines 4 and 5, delete in their entirety.

2.1, under "STANDARDS, MILITARY", delete:

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|-------------|----------------------------------------------|
| "MIL-STD-8 | - Dimensioning and Tolerancing. |
| MIL-STD-210 | - Climatic Extremes for Military Equipment." |

2.1, under "STANDARDS, MILITARY", add:

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|--------------|------------------------------------------------------------------|
| "MIL-STD-462 | - Electromagnetic Interference Characteristics, Measurement of." |
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2.1, under "DRAWINGS, ARMY", delete:

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|------------|----------------------------------|
| "8337178 | - Kit, A-frame. |
| 8345120 | - Cover, Slave, Receptacle Hole. |
| 10937874-1 | - Kit, Water Fording. |
| 10937874-2 | - Kit, Water Fording. |
| 10937874-3 | - Kit, Water Fording. |
| 10937963 | - Kit, Arctic. |
| 11623130 | - Winch, Utility." |

2.1, under "DRAWINGS, ARMY", add

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|----------|-------------------------|
| "8390117 | - Kit, A-Frame. |
| 10896550 | - Fording Kit. |
| 11609777 | - Fording Installation. |
| 11608963 | - Kit, Winterization. |
| 11647842 | - Body Assembly." |

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2.1, lines 1 through 3, delete in their entirety.

3.1, delete title, and substitute:

"3.1 First article (first production) vehicle."

3.1, at end of paragraph, add: "(see 6.7)".

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3.2, line 3, add to end of sentence: "(see 6.9)".

3.2.1, delete in its entirety, and substitute:

"3.2.1 Qualified products. The contractor shall be responsible for using parts and assemblies from Qualified Products Lists (QPL's) whenever available. Contractor's inspection records shall specifically list all QPL items by number and date of the QPL, name of supplier and part or drawing number(s). When parts and assemblies are approved as qualified products, but not yet listed on the QPL, the contractor shall list the products by number and date of the approved document and name of supplier(s)."

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TABLE III, delete in its entirety, and substitute:

"TABLE III. Fording kits

Model	Fording kit drawing	Model	Fording kit drawing
M35A2	11609777	M50A3	10896550
M109A3	11609777	M36A2	11609777
M185A3	11609777	M342A2	11609777
M49A2C	11609777	M764	11609777
M35A2C	11609777		

3.3.1.2, line 3, delete "10937963", and substitute: "11608963".

3.3.1.3, line 2, delete "8337178", and substitute: "8390117".

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3.3.9, line 3 delete "Corps of Engineering Drawings D8154-1 thru -22 and D4699-1 thru -3 (see 6.7)", and substitute: "drawing 11647842".

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3.3.9.4.1, lines 3 through 5, delete: "as shown on drawing D469-1 thru -3 (see 6.7) the lever shall not remain engaged when released by the operator".

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3.3.11.5: Delete in its entirety.

3.3.11.6: Delete in its entirety.

PAGE 16

TABLE IV, line 4, delete "MIL-H-46046", and substitute: "MIL-B-46176".

TABLE IV, line 9, delete "MIL-L-10295", and substitute: "MIL-L-46176".

TABLE IV, line 13, delete in its entirety.

TABLE IV, line 18, delete "VV-B-680", and substitute: "MIL-B-46176".

TABLE IV, line 19, delete "MIL-H-13910", and substitute: "MIL-B-46176".

TABLE IV, line 23, delete "MIL-L-10324", and substitute: "MIL-L-2105".

TABLE IV, line 8, delete "O-A-548", and substitute: "MIL-A-46153".

3.4.1, lines 4 and 5, delete "as specified in Standard MIL-STD-210", and substitute: "of minus 80°F".

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*3.4.10, lines 6 and 7, delete "when dispensing diesel oil the discharge rate of 42GPM may be reduced to 25GPM" and substitute "when dispensing diesel fuel through the filter separator system with filter and fuel elements installed the discharge rate shall not be less than 25GPM".

3.4.11, line 1, delete "water tank truck M50A2", and substitute: "water tank truck M50A3".

3.4.14, line 5, add after last sentence: "Length of cable shall be 200 feet".

3.4.16, delete in its entirety, and substitute:

"3.4.16 Electromagnetic interference. Electromagnetic interference shall be controlled as specified for classes A3 and C1, Group 1, of MIL-STD-461".

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4.1, delete in its entirety, and substitute:

"4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements."

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4.1.5.4, delete paragraph heading, and substitute:

"First article (first production) inspection."

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4.2.1.3, add to last sentence "(see 6.5.1 and 6.5.2)".

4.2.1.4: Delete in its entirety.

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4.3.2.14, delete in its entirety, and substitute:

"4.3.2.14 Body winch operation test (M764). To determine conformance to 3.3.11.1, body winch and mounting shall be tested to 15,000 pounds rated line pull at first layer on bare drum. Pull shall be applied by raising a 15,000 pound weight 3 to 5 feet. Winch shall allow cable to be removed by hand. Cable shall rewind evenly on drum under a load with power applied."

4.3.2.17: Delete in its entirety.

4.3.2.18: Delete in its entirety.

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4.3.3.5, line 2 "two-way valve", and substitute: "appropriate valve".

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4.3.3.12, delete in its entirety, and substitute:

"4.3.3.12 Electromagnetic interference tests. Vehicles shall be subjected to test procedures specified in MIL-STD-462."

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Section 5, delete in its entirety, and substitute:

"5. PACKAGING

5.1 Vehicle processing. Vehicle shall be processed for shipment and storage in accordance with MIL-V-62038 to the extent indicated on the Vehicle Preservation Data Sheets, or other implementing documents, as furnished by the responsible Government activity at the time of invitation for bid (see 6.2)."

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6.5, delete in its entirety, and substitute:

"6.5 Deficiency sheet. The Government inspector shall verify that a thorough inspection of each vehicle is performed by the contractor for the listed characteristics, and for any departures from good workmanship. The Government inspector shall assure that all defects encountered during inspection are enumerated on the deficiency sheet for the vehicle. Defects noted on a Deficiency Sheet shall contain sufficient description to enable the Government inspector and the contractor's representative to classify the defects in accordance with the classification of defects (see tables IX and X) and definitions contained in MIL-STD-105. Corrective action shall be taken for recurring defects.

6.5.1 Recurring major defects. A major defect is recurring when the same defect occurs more than once in the same sample, or when the defect occurs in two successive samples. A major defect may be considered recurring when the historical inspection records ("P" chart or equivalent) reflect such a condition. Recurring major defects shall be cause for the entire lot or lots to be inspected for the recurring defects.

6.5.2 Recurring minor defects. A minor defect is recurring if it occurs more than twice in the same sample or when the defect occurs in four successive samples. Recurring minor defects shall be cause for the entire lot of lots to be inspected for the recurring defects."

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TABLE XIV, line 17 delete "500 Gal⁵", and substitute: "500 Gal⁶".

TABLE XIV, add under: Model "M764", Net weight "20,600", Max. Payload Allowance - CC "500", LLC "500", Hy - "2000".

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6.7, delete in its entirety, and substitute:

"6.7 First article. First article samples shall be tested and approved under the appropriate provisions of 7-104.55 of the Defense Acquisition Regulation. The contracting officer should include specific instruction in all acquisition instruments regarding arrangements for examination, tests and approval of the first article (see 3.1)."

6.8, lines 2 and 4, delete "MIL-L-45199", and substitute "MIL-L-2104".

Add the following new paragraphs:

"6.9 Recycled materials. The use of recycled materials which meet the requirements of the applicable material specifications without jeopardizing the intended use of the item shall be encouraged (see 3.2).

6.10 Electromagnetic compatibility. The contracting officer should submit a copy of the reports required (see 3.4.16) to Commander, US Army Communications Research and Development Command, ATTN: DRDCO-CM, Fort Monmouth, NJ 07703 for approval.

6.11 Changes from previous issue. The margins of this amendment are marked with an asterisk to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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