## **TECHNICAL MANUAL**

# ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS

**FOR** 

TRUCK, CHASSIS: 5-TON, 6x6

M39, M39A2 M40, M40A1, M40A2, M40A1C, M40A2C, M61, M61A1, M61A2, M63, M63A1, M63A2, M63C, M63A1C, M63A2C, M63A1D, M63A2D, M139A1, M139A2, M139C, M139A2C, M139D, M139A2D, M139F, M139A1F, M139A2F; TRUCK, CARGO: M41, M41A2, M54, M54A1, M54A2, M54A1C, M54A2C, M55, M55A1, M55A2; TRUCK, DUMP: M51, M51A1, M51A2; TRUCK, TRACTOR: M52, M52A1, M52A2; TRUCK, TRACTOR, WRECKER: M246, M246A1, M246A2; TRUCK, VAN, EXPANSIBLE: M291A1, M291A2, M291A1C, M291A2C, M291A1D, M291A2D; TRUCK, WRECKER, MEDIUM: M62, M543, M543A1, M543A2; TRUCK, BRIDGING: M139, M328A1, M328A2; TRUCK, LOGGING, M748A1, M748A2.

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 7 May 1973

#### ORGANIZATIONAL MAINTENANCE REPAIR PARTS

#### AND SPECIAL TOOLS LISTS

#### **FOR**

TRUCK, CHASSIS: 5-TON, 6x6, M39, M39A2, M40, M40A1, M40A2, M40A1C, M40A2C, M61, M61A1, M61A2, M63, M63A1, M63A2, M63C, M63A1C, M63A2C, M63A1D, M63A2D, M139A1, M139F, M139A2C, M139D, M139A2D, M139C, M139A2, M139A1F, M139A2F; TRUCK, CARGO: M41, M41A2, M54, M54A1, M54A2, M54A1C, M54A2C, M55, M55A1, M55A2; TRUCK, DUMP: M51, M51A1, M51A2; TRUCK, TRACTOR: M52, M52A1, M52A2; TRUCK, TRACTOR, WRECKER: M246, M246A1, M246A2; TRUCK, VAN, EXPANSIBLE: M291A1, M291A2, M291A1C, M291A2C, M291A1D, M291A2D; TRUCK, WRECKER, MEDIUM: M62, M543, M543A1, M543A2; TRUCK, BRIDGING: M139, M328A1, M328A2; TRUCK, LOGGING, M748A1, M748A2.

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#### **SECTION I**

#### INTRODUCTION

#### Definition 1. Scope Code

This manual lists repair parts, special tools, and test equipment required for the performance of organizational maintenance of the truck, 5-ton 6x6.

#### 2. General

These repair parts and special tools lists are divided into the following sections:

- a. Repair Parts—Section II. A list of repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.
- b. Special Tools and Test Equipment—Section III. A list of special tools and test equipment authorized for the performance of maintenance at the organizational level.
- c. Federal Stock Number and Reference Number Index—Section IV. A list of Federal stock numbers in ascending numerical sequence followed by a list of reference numbers in ascending alphanumeric sequence, cross-referenced to the illustration figure number and item number.

## 3. Explanation of Columns

The following provides an explanation of columns found in the tabular listings.

- a. Source. Maintenance and Recoverability Codes (SMR). These codes of the uniform SMR code format are listed in column 1 in five positions as follows:
- (1) Source codes. The Source Codes are entered in the first and second positions and are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are defined as listed below.

### Definition

Item procured and stocked for anticipated or known usage.

Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply systems.

Item procured and stocked and which otherwise would be ceded PA except that it is deteriorative

PD in nature.

P C

PE

Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.

Support equipment procured and stocked for initial issue or outfitting to specified main. tenance repair activities.

Support equipment which will not be stocked but PF which will be centrally procured on demand.

Item procured and stocked to provide for PG sustained support life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.

An item of depot overhaul / repair kit and not KD purchased separately. Depot kit is defined as a kit that provides items required at the time of

overhaul or repair.

KF An item of a maintenance kit and not purchased separately. Maintenance kit is defined as a kit that provides an item that can be replaced at organizational or intermediate levels of

Item included in both a depot overhaul/ repair KB kit and a maintenance kit.

Item to be manufactured or fabricated at M<sub>O</sub> organizational level.

Item to be manufactured or fabricated at the MF direct support maintenance level.

MH Item to be manufactured or fabricated at the general support maintenance level.

Item to be manufactured or fabricated at depot MD maintenance level.

Item to be assembled at organizational level. A<sub>0</sub> Item to be assembled at the direct support AF maintenance level.

Item to be assembled at the general support AH maintenance level.

Item to be assembled at depot maintenance level. AD Item is not procured or stocked. The requirement XA for the item will be filled by replacement of the next higher assembly or component.

Item is not procured or stocked. If this item is not XB available through salvage, it is to be requisitioned.

Installation drawing, diagram, instruction sheet, XC field service drawing that is identified by a manufacturer's part number.

A low-mortality item that is not stocked. When required, requisition the item from the end item manager with' exception data, using the manufacturer's code and part number.

#### NOTE

Cannibalization or salvage may be used as a source of supply for any items coded above except those coded XA.

- (2) Maintenance code. Maintenance codes are entered in the third and fourth positions. They indicate the level of maintenance authorized to use and repair the support item as defined below.
- (a) Use. The maintenance code entered in the third position indicates the lowest maintenance

level authorized to remove, replace, and use the support item. The use maintenance level is indicated by one of the codes defined below.

Code	Explanation and application
C	Crew or operator maintenance performed within organizational maintenance.
0	Support item is removed, replaced, and used at the organizational level.
F	Support item is removed, replaced, and used at the direct support level.
Н	Support item is removed, replaced, and used at the general support level.
D	Support item is removed, replaced, and used at depot, mobile depot, or specialized repair activity only.

(b) Repair. The maintenance code entered in the fourth position indicates whether the item is to be repaired. It identifies the lowest maintenance level with the capability to perform complete repair; i.e., all authorized maintenance functions. This position contains one of the following maintenance codes assigned by the service(s) that require the code as defined below.

Code	Explanation and application
0	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
Н	The lowest maintenance level capable of complete repair of the support item is the general support level.
D	The lowest maintenance level capable of complete repair of support item is the depot level; performed by depot, mobile depot, or specialized repair activity.  Repair restricted to designated specialized repair activity.
Z	Nonreparable. No repair is authorized.
В	No repair is authorized. The item may be reconditioned by adjusting, lubrication; etc., at the user level. No parts or special tools are procured for the maintenance of this item.

(3) *Recoverability code.* This code is entered in the fifth position. It is assigned to a support item to indicate the disposition action on an unserviceable item. This fifth position contains one of the codes defined below

tiit	codes defined below.
Code	Definition
Z	Nonreparable item. When unserviceable, condemn it and dispose of it at the level indicated in the third position (use).
0	Reparable item. When not economical to repair, condemn it and dispose of it at organizational level.
F	Reparable item. When not economical to repair, condemn it and dispose of it at the direct support level.
Н	Reparable item. When not economical to repair, condemn it and dispose of it at the general

support level.

Code	Definition
Couc	Dummi

- D Reparable item. When beyond lower-level repair capability, return it to depot. Condemnation and disposal are not authorized below depot level.
- L Reparable item. Repair, Condemnation, and disposal are not authorized below depot / specialized repair activity level.
- A Item requires special handling because of specific reasons (i.e., precious metal content, high-dollar value, critical material, or hazardous material). Refer to appropriate manuals/ directives for specific instructions.
- b. Federal Stock Number, Column 2. This column indicates the Federal stock number assigned to the item which will be used for requisitioning purposes.

#### NOTE

Federal stock numbers that are missing for P source-coded items are not currently recorded in the AMDF. When these stock numbers are broadcast in the AMDF they will be provided by a change to this manual.

- c. Description, Column 3. Indicates the Federal item name and a minimum description required to identify the item. The last line indicates the reference number followed by the applicable Federal supply code for manufacturer (FSCM) in parentheses. The FSCM is used as an element in item identification to designate the manufacturer of distributor or Government agency; etc., and is identified in SB 708-42. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in front of the item name. Material required for manufacture or fabrication is identified.
- d. Unit of Measure (U/M), Column 4. This column indicates the standard or basic quantity by which the listed item is used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation; e.g., ea, in, pr, etc., and is the basis used to indicate quantities and allowances in subsequent columns.
- e. *Quantity Incorporated in Unit, Column* 5. This column indicates the quantity of the item used in the functional group. A V appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers; etc.).
- f. 15-Day Organizational Maintenance Authorization, Column 6.
  - (1) For repair parts only.
- (a) Asterisks in the allowance columns indicate the total range of repair parts authorized for use at the organizational category. The repair

Model

No.

M51

M51

M328A2

M52A2

M52A2

M52

M52

M52

M246A2

M55A2

parts will be requisitioned on an as-required basis. The repair parts authorized at the organizational level will be those for the maintenance mission at that level. Requirements for repair parts stockage and for distribution to supported units will be based on demand and determined in accordance with AR 710-2.

- (b) Major Army commandes are authorized to approve reductions in the range of support items authorized for use in units within their commands. Recommendations for increases in the range of items authorized for use will be forwarded to: Commander, US Army Tank-Automotive Command, ATTN: AMSTA-M (NMP), Warren, MI 48090.
- (2) The allowance quantities for special tools or test, measurement, and diagnostic equipment (TMDE) and other support equipment peculiar to the end item are shown in the appropriate density spread / allowance columns.
- g. *Illustration, Column 7 of Sections II and III.* This column is divided as follows:
- (1) Figure number, subcolumn (a). This column indicates the figure number of the illustration in which the item is shown.
- (2) *Item number, subcolumn (b).* This column indicates the call-out number used to reference the item in the illustration.

#### 4. Special Information

a. Useable-on codes are included in column 3. Uncoded items are applicable to all models. Identification of the useable on codes used in this publication are:

			XA	Truck cargo 5T 6x6	M55
Model	77	Model	ZB	Truck cargo dropsides 5T 6x6	M54A2C
Code	Nomenclature	No.	ZC	Truck cargo dropside 5T 6x6 w / w	M54A2C
A	All models		1A	Truck tractor 5T 6x6 w/w	M52A1
AA	Vehicles with R6602 gas engine		1B	Truck tractor 5T 6x6	M52A1
AB	Vehicles with LDS-465-1A multifuel		1C	Truck cargo 5T 6x6 w/w	M54A1
	engines		1D	Truck cargo 5T 6x6 w/w	M54A1
AC	Vehicles with ENDT 673 Mack		1E	Truck chassis 5T 6x6 w/ w	M40A1
	diesel engines		1F	Truck chassis 5T 6x6	M40Al
AD	All 5-ton with winches		1G	Truck cargo dropsides 5T 6x6 w / w	M54A1C
ΑE	All 5-ton with soft top cabs		1H	Truck cargo dropsides 5T 6x6	M54A1C
BA	Truck chassis 5T 6x6	M40	1I	Truck bolster 5T 6x6 w/w	M748A1
BB	Truck chassis 5T 6x6 w/w	M40	1J	Truck chassis 5T 6x6 w/w	M40A1C
BC	Truck chassis 5T 6x6 w / w	M139F	1K	Truck wrecker 5T 6x6 w/w	M543A1
BD	Truck wrecker medium	M543	1L	Truck chassis 5T 6x6 w/w	M61A1
BE	Truck bridge stake transporter	M139	1M	Truck chassis 5T 6x6	M61A1
BF	Truck flat bed 5T 6x6 w / w	M40	1N	Truck chassis 5T 6x6 w/w	M63A1
BG	Truck bolster swivel 5T 6x6 w / w	M40	10	Truck chassis 5T 6x6	M63A1
BH	Truck bolster 5T 6x6 w / w	M748A2	1P	Truck cargo 5T 6x6 w / w	M55A1
CA	Truck cargo 5T 6x6	M41	1Q	Truck cargo 5T 6x6	M55A1
CB	Truck cargo 5T 6x6 w / w	M41	1Ř	Truck chassis 5T 6x6 w / w	M63A1C
CC	Truck dump 5T 6x6	M51A2	1T	Truck chassis 5T 6x6	M63A1C
CD	Truck dump 5T 6x6 w/w	M51A2	1U	Truck van expansible 5T 6x6	M291A1
CE	Truck van expansible 5T 6x6	M291A2	1V	Truck van expansible 5T 6x6	M291A1C
CF	Truck van expansible 5T 6x6	M291A2C	1W	Truck van expansible 5T 6x6	M291A1D
CG	Truck van expansible 5T 6x6	M291A2D	1X	Truck chassis 5T 6x6 w/w	M139A1

Model

Code

DA

DB

DC

DE

DF

EA

EB

EC

EF

EG

FA

FB

FE

FG

FH

FΙ

FJ

GA GB

CD

GE

HA

HB

IA

JA KA

KB

LA

MA MB

OA

OB

RA

TB TC

XA

cab

Truck	cargo 5T 6x6 soft top cab	M54
Truck	cargo 5T 6x6 w / w soft top	M54
cab	3	
Truck	cargo 5T 6x6	M54A2
Truck	cargo 5T 6x6 w / w	M54A2
Truck	cargo 5T 6x6 w / w	M55A2
Truck	chassis 5T 6x6	M61A2
	wrecker medium 5T 6x6 w / w	M543A2
Truck	chassis 5T 6x6	M61
Truck	chassis 5T 6x6 w/w	M61
Truck	chassis 5T 6x6	M63A2C
Truck	chassis 5T 6x6	M40A2C
Truck	wrecker medium 5T 6x6 w / w	M62
Truck	chassis 5T 6x6 w/w	M139A2F
Truck	chassis 5T 6x6 w/w	M139
Truck	tractor wrecker 5T 6x6 w / w	M246
Truck	chassis 5T 6x6	M63
Truck	chassis 5T 6x6 w/w	M63
Truck	chassis 5T 6x6	M139C
	chassis 5T 6x6	M139D
Truck	chassis 5T 6x6 w/w	M63A2
	chassis 5T 6x6	M39
Truck	chassis 5T 6x6 w/w	M39
Truck	cargo 5T 6x6 w / w	M55
Truck	chassis 5T 6x6	M63A2
	chassis 5T 6x6 w/w	M61A2
Truck	chassis 5T 6x6 w/w	M63C
Truck	cargo 5T 6x6	M55
Truck	cargo dropsides 5T 6x6	M54A2C
Truck	cargo dropside 5T 6x6 w / w tractor 5T 6x6 w / w	M54A2C
Truck	tractor 5T 6x6 w / w	M52A1
	tractor 5T 6x6	M52A1
Truck	cargo 5T 6x6 w / w	M54A1
Truck	cargo 5T 6x6 w / w	M54A1
	chassis 5T 6x6 w/ w	M40A1
Truck	chassis 5T 6x6	M40Al
Truck	cargo dropsides 5T 6x6 w / w	M54A1C
Truck	cargo dropsides 5T 6x6	M54A1C
	bolster 5T 6x6 w / w	M748A1
Truck	chassis 5T 6x6 w / w	M40A1C
	wrecker 5T 6x6 w / w	M543A1
Truck	chassis 5T 6v6 w / w	M61A1

Nomenclature

Truck dump 5T 6x6 soft top cab

Truck dump 5T 6x6 w / w soft top

Truck stake transport 5T 6x6 w / w

Truck tractor 5T 6x6 soft top cab

Truck tractor 5T 6x6 w / w soft top

Truck tractor 5T 6x6 hard top cab

Truck tractor wreeker 5T 6x6

Truck tractor 5T 6x6

Truck cargo 5T 6x6

Truck tractor 5T 6x6 w / w

#### TM 9-2320-211-20P

Model Code	Nomenclature	Model No.
1Y	Truck chassis 5T 6x6	M139A1
1Z	Truck stake bridge transport 5T 6x6	M328A1
	$\mathbf{w}/\mathbf{w}$	
2A	Truck, chassis 5T 6x6 w / w	M139A1F
2B	Truck, dump 5T 6x6	M51A1
2C	Truck, dump 5T 6x6 w/ w	M51A1
3 G	Truck tractor, wrecker, 5T 6x9 w / w	M246A1

b. The basis of issue for authorized special tools and test equipment is the number of end items of

equipment supported and the number of maintenance personnel allocated to perform the required maintenance operations.

- c. Due to changes made during production of the engines covered in this manual, effective change points, by engine serial number, are listed following the description of the part where applicable.
- d. The following publications pertain to the 5-ton, 6x6 Truck and its components:

LO 9-2320-211-12	Truck, chassis: 5-ton, 6X6, M39, M139, M139A1, M139A1F, M139A2F, M139C, M139D, M139F, M40, M40A1, M40A1C, M40A2C, M40C, M61, M161A1, M61A2, M63, M63A1, M63A1C, M63A2, M63A2C, M63C; truck, bolster: 5-ton, 6X6, M748A1, M748A2; truck, cargo: M41, M54, M54A1, M54A2, M55, M55A1, M55A2: truck, cargo, dropside: 5-ton, 6X6, M54A1C, M54A2C; truck, dump: 5-ton, 6X6, M51, M51A1, M51A2; truck flat bed: 5-ton, 6X6 M40: chassis, truck, bridge stake transporter: 5-ton, 6X6, M139, M328A1, M328A2; truck, tractor: 5-ton, 6X6, M52, M52A1, M52A2; truck, van, expansible: 5-ton, 6X6, M291A1, M291A1C, M291A1D, M291A2, M291A2C, M291A2D; truck, tractor, wrecker: 5-ton, 6X6, M246, M240A1, M246A2; truck, wrecker, medium: 5-ton, 6X6, M62, M543, M543A1, M543A2.
TM 9-2320-211-ESC	Equipment Serviceability criteria for truck, chassis: 5-ton, 6X6, M39, M40, M40C, M40A1, M40A1C, M61, M61A1, M61A2, M63, M63A1, M63A2, M139, M139C, M139D, M139F, M139A1, M139A1F, M139A2F; truck, cargo, 5-ton, 6X6, M41, M54, M54A1, M54A1C, M54A2, M54A2C, M55, M55A1, M55A2; truck, bolster: logging, 5-ton, 6X6, M748A1, M748A2; truck, wrecker: medium, 5-ton, 6X6, M62, M543, M543A1, M543A2; truck, tractor: wrecker, 5-ton, 6X6, M246, M240A1, M246A2; truck, van: expansible, 5-ton, 6X6, M291A1, M291A1C, M291AD: truck, stake: bridge transport, 5-ton, 6X6, M328A1, M328A2.
TM 9-2320-211-20	Operators manual: 5-ton, 6X6, M39, M40, M40C, M61, M61A2, M63, M63A2, M63C, M139, M139C, M139D, M139F, M139A2F: truck, cargo, M41, M54, M54A1, M54A2, M55, M55A2; truck. dump: M51, M51A2; truck tractor: M52, M52A1, M52A2: truck, tractor, wrecker: M246; truck, van: expansible, M291A2, M291A2C: truck, wrecker: medium, M62, M543, M543A2.
TM 9-2320-211-20	Organizational maintenance for truck, chassis: 5-ton, 6X6, M39, M40, M40C, M61, M61A2, M63, M63A2, M63C, M139, M139C, M139D, M139F, M139A2F; truck, cargo: M41, M54, M54A1, M54A2, M55, M55A2; truck, dump: M51, M5142: truck, tractor: M52, M52A1, M52A2; truck, tractor, wrecker: M246, M246A1, M246A2; truck, van. expansible: M291A2, M291A2C, M291A1D, M291A21); truck, wrecker, medium: M62, M543, M543A1, M543A2.

e. Tables 1 and 2 provide a rapid index to all recoverable, direct exchange items and repair kits and sets contained in this manual. The items in table 1 are in FSN sequence and items in table 2 are listed in functional group sequence.