

TECHNICAL MANUAL

VOLUME 2 OF 2

PART 1 OF 2

MAINTENANCE

DIRECT SUPPORT AND GENERAL SUPPORT LEVEL

ENGINE ASSEMBLY, DIESEL (MULTIFUEL):

**NATURALLY ASPIRATED OR TURBOCHARGED,
FUEL-INJECTED, WATER-COOLED, 6-CYLINDER**

MODELS: LD-465-1, NSN 2815-00-239-5824;

LD-465-1C, NSN 2815-00-134-4830; LDT-465-1C,

NSN 2815-00-103-2642; LDS-465-1, NSN 2815-00-075-0087;

LDS-465-1A, NSN 2815-00-239-5819; AND LDS-465-2,

NSN 2815-00-808-8011 AND CLUTCHES

Chapter 1
General
Maintenance
Information

Chapter 2
Preliminary
Procedures
For Engine
Maintenance

Chapter 3
Engine
Disassembly

NOTE:

**THE STYLE OF THIS TM IS
EXPERIMENTAL. IT IS BEING TRIED
BY THE ARMY ONLY ON
A LIMITED BASIS**

*** TM 9-2815-210-34-2-1
T.O. 38G1-48-12-2-1**

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NO. 9-2815-210-34-2-1
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NO. 38G1-48-12-2-1

DEPARTMENTS OF THE ARMY
AND
THE AIR FORCE
Washington DC, 3 April 1981

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NSN 2815-00-808-8011 AND CLUTCHES**

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms).or DA Form 2028-2 located in the back of this manual direct to: Commander, US Army Tank-Automotive Command. ATTN: DRSTA-MB, Warren, Michigan 48090. A reply will be furnished to you.

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* This manual, together with TM 9-2815-210-34-1, 3 April 1981, and TM 9-2815-210-34-2-2, 3 April 1981, supersedes TM 9-2815-210-34, 16 June 1978.

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CHAPTER 1

GENERAL MAINTENANCE INFORMATION

1-1. SCOPE.

a. This manual gives instructions for direct support and general support maintenance of multifuel engine models LD-465-1, LD-465-1C, LDT-465-1C, LDS-465-1, LDS-465-1A, and LDS-465-2.

b. Engine models LD-465-1 and LDT-465-1C are used in the M44A2 series 2 1/2-ton trucks. Engine models LDS-465-1 and LDS-465-1A are used in the M39A2 series 5-ton trucks. The LDS-465-2 and LD-465-1C engines are used in the M656, M757, and M791 series 5-ton trucks.

c. This manual has procedures for disassembly, cleaning, inspection, repair, test, adjustment, and overhaul as authorized by the maintenance allocation chart.

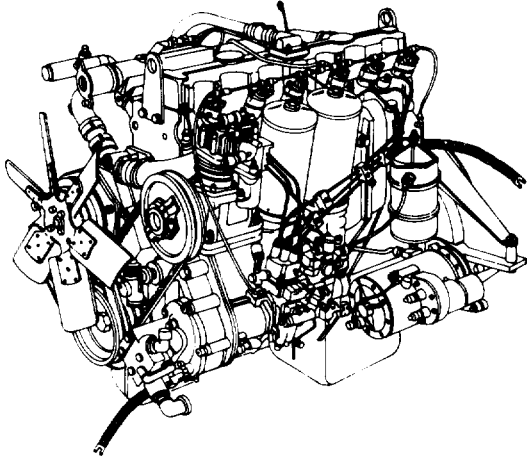
d. Refer to TM 9-2815-210-34P for a listing of repair parts and special tools for the maintenance of multifuel engines covered in this manual.

e. Figures 1-1 to 1-11 show the multifuel engines covered in this manual.

1-2. GENERAL MAINTENANCE. General maintenance tasks relating to inspection, care and maintenance of antifriction bearings are given in TM 9-214. Welding procedures that apply to this type of equipment are given in TM 9-237. For lubrication, refer to LO 9-2320-209-12/1 and LO 9-2320-211-12.

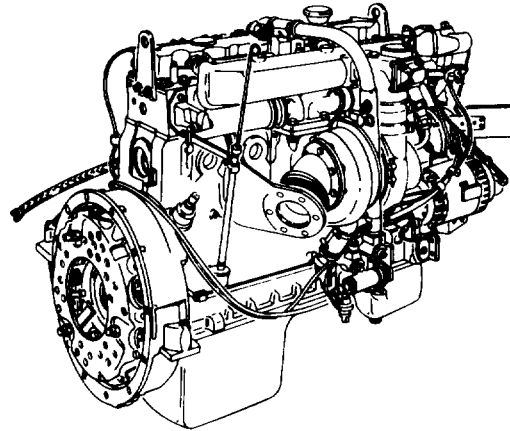
1-3. CLEANING. Refer to TM 9-247 for general cleaning materials for this type of equipment. Special cleaning procedures are given in chapter 4.

1-4. PAINTING. For painting instructions for field use of the equipment covered in this manual, refer to TM 43-0139.



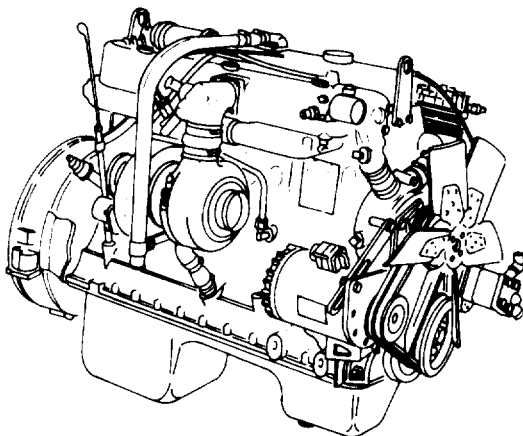
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Figure 1-1. Model LDS-465-1 engine assembly, left front view



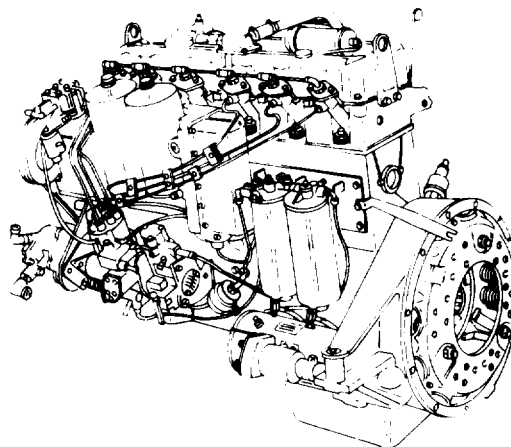
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Figure 1-2. Model LDS-465-1 engine assembly, right rear view



TA 120879

Figure 1-3. Model LDS-465-1A engine assembly, right front view



TA 120880

Figure 1-4. Model LDS-465-1A engine assembly, left rear view