

CYLINDER COMPRESSION

Remove the left seat/bottom cover (page 3-11).

Warm up the engine to normal operating temperature.

14 models: Stop the engine, disconnect the spark plug cap and remove the spark plug (page 3-8).

After 14 models: Stop the engine, disconnect the top spark plug cap and remove the top spark plug (page 3-8).

Install the compression gauge (7) into the spark plug hole.

TOOLS:

Compression tester
Adapter

SEP/555A
BT16L001
(U.S.A. only)

Start the sub-transmission into neutral and set the parking brake.

Open the throttle all the way and crank the engine with the starter motor until the gauge reading stops rising. The maximum reading is usually reached within 4 - 7 seconds.

COMPRESSION PRESSURE

549 kPa (5.8 kgf/cm², 80 psi) at 300 rpm

Check that there is no leakage at the gauge connection.

Low compression can be caused by:

- blown cylinder head gasket
- improper valve adjustment
- valve leakage
- worn piston ring or cylinder

High compression can be caused by:

- carbon deposits in combustion chamber or on piston head

CYLINDER HEAD COVER REMOVAL/
DISASSEMBLY**REMOVAL**

Disconnect the spark plug cap (page 3-8).

After 14 models: Disconnect the seat belt switch (27 connector) (page 3-35).

Remove the seat/bottom covers (page 3-10).

Remove the bolts (7) and cover (8).



Set the piston position to Top Dead Center on the compression stroke (page 3-10).

Remove the following:

- seven bolts (7) and three washers (2)
- four cap nuts (3) and washers (4)
- cylinder head cover (8)



Mark the push rods so they can be placed back in their original locations:

- push rods (7)
- gasket (9)
- down pins (10)



- cam followers (11)

**DISASSEMBLY**

Remove the ten bolts (7) and sealing washers (2).

Push the rocker arm shaft (12) with the shaft screwdriver through the test hole until the O-ring on the shaft is removed out of the head cover.



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Unit Maintenance Manual for Truck, Tractor, Line Haul, 52,000 GVWR, 6 X 4, M915A2 (NSN 2320-01-272-5029), Truck, Tractor, Light Equipment Transporter (LET), 68,000 GVWR, 6 X 6 W/winch, M916A1 (NSN 2320-01-272-5028). ,1992

Operator, Organizational, Direct Support, and General Support Maintenance Manual Including Repair Parts List for Grinding Kit, Valve Seat (K O Lee Co, Inc) (4910-00-060-9983). ,1989 *Operator's, Organizational, Direct*

Support and General Support Maintenance Manual Including Repair Parts List for Grinding Machine, Valve Face, Model K403C and K500C, (K.O. Lee Co.), (NSN 4910-00-540-4679). ,1989 *Monthly Catalog of United States Government*

Publications United States. Superintendent of Documents,1978 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Monthly Catalog of United States Government Publications ,1988 **Diesel**

Equipment Superintendent ,1979 The Timber Producer ,1996 **Go-West** ,1984 *IDS Study Incomes Data* Services,1987 **Fleet Owner** ,2006 *Understanding and Applying Advanced On-board Bus Electronics* John J.

Schiavone,National Research Council (U.S.). Transportation Research Board,Transit Cooperative Research Program,1999

The report provides an overview of electronics and its application to buses and other transportation sectors The report then addresses electronic integration potential benefits offered by integration and transit agency experiences with the technology The report concludes with guidelines for implementing transit bus electronics It is intended to be a primer on the subject providing essential background information to serve as a starting point for acquiring additional knowledge *The Fifth Wheel* ,1982

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turbines and more Over 1 100 businesses list with the SURPLUS RECORD September 2022 issue Vol 99 No 9 **Scientific and Technical Aerospace Reports** ,1975 Technologies and Approaches to Reducing the Fuel Consumption of Medium-

and Heavy-Duty Vehicles National Research Council,Transportation Research Board,Division on Engineering and Physical Sciences,Board on Energy and Environmental Systems,Committee to Assess Fuel Economy Technologies for Medium- and

Heavy-Duty Vehicles,2010-08-30 Technologies and Approaches to Reducing the Fuel Consumption of Medium and Heavy Duty Vehicles evaluates various technologies and methods that could improve the fuel economy of medium and heavy duty

vehicles such as tractor trailers transit buses and work trucks The book also recommends approaches that federal agencies could use to regulate these vehicles fuel consumption Currently there are no fuel consumption standards for such vehicles which account for about 26 percent of the transportation fuel used in the U S The miles per gallon measure used to regulate

the fuel economy of passenger cars is not appropriate for medium and heavy duty vehicles which are designed above all to carry loads efficiently. Instead any regulation of medium and heavy duty vehicles should use a metric that reflects the efficiency with which a vehicle moves goods or passengers such as gallons per ton mile a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile. This is called load specific fuel consumption LSFC. The book estimates the improvements that various technologies could achieve over the next decade in seven vehicle types. For example using advanced diesel engines in tractor trailers could lower their fuel consumption by up to 20 percent by 2020 and improved aerodynamics could yield an 11 percent reduction. Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently such as garbage trucks and transit buses by as much 35 percent in the same time frame. **Heavy-duty Truck**

Systems Andrew Norman, Sean Bennett, John A. Corinchock, 2001. The third edition of this best selling comprehensive introduction to servicing medium heavy duty trucks has been significantly updated and expanded. Coverage added includes twelve new or expanded chapters including a comprehensive introduction to electricity and electronics the latest on electronic automatic transmissions updated braking systems including ABS and completely revised chapters on air conditioning to make it compliant with today's standards. In addition to the revisions to the book there is now a comprehensive support package including an all new workbook featuring numerous and practical job sheets for lab activities.

Farmers and Consumers Market Bulletin, 2011. **Heavy Vehicle Accident Reconstruction** Christopher D Armstrong, 2018-11-02. The last ten years have seen explosive growth in the technology available to the collision analyst changing the way reconstruction is practiced in fundamental ways. The greatest technological advances for the crash reconstruction community have come in the realms of photogrammetry and digital media analysis. The widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data create 3D models and visualize and analyze crash vehicles and environments. The introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction. Because of the technological changes occurring in the industry many SAE papers have been written to address the validation and use of new tools for collision reconstruction. **Collision Reconstruction Methodologies Volumes 1-12** bring together seminal SAE technical papers surrounding advancements in the crash reconstruction field. Topics featured in the series include Night Vision Study and Photogrammetry Vehicle Event Data Recorders Motorcycle Heavy Vehicle Bicycle and Pedestrian Accident Reconstruction. The goal is to provide the latest technologies and methodologies being introduced into collision reconstruction appealing to crash analysts consultants and safety engineers alike. **Jane's Containerisation Directory**, 1992. **Automotive News**, 2000.

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