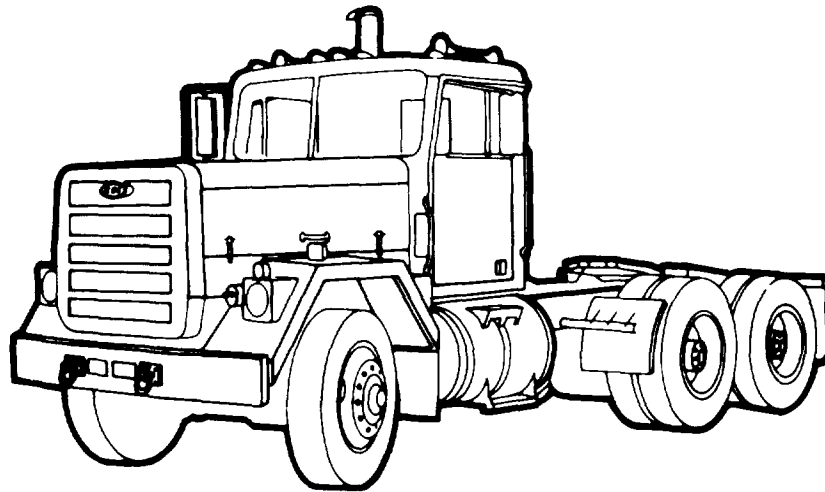


TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE

TRUCK TRACTOR, LINE HAUL,  
50,000 GVWR, 6 X 4, M915 (NSN 2320-01-028-4395)  
TRUCK TRACTOR, LIGHT EQUIPMENT TRANSPORTER  
(LET), 56,000 GVWR, 6 X 6, W/WINCH  
M916 (NSN 2320-01-028-4396)  
TRUCK TRACTOR, MEDIUM EQUIPMENT TRANSPORTER  
(MET), 75,000 GVWR, 8 X 6, W/WINCH  
M920 (NSN 2320-01-028-4397)



TRUCK CHASSIS, 75,000 GVWR, 8 X 6,  
FOR 20-TON DUMP TRUCK,  
M917 (NSN 3805-01-028-4389)  
TRUCK CHASSIS, 56,000 GVWR, 6 X 6,  
FOR BITUMINOUS DISTRIBUTOR TRUCK,  
M918 (NSN 3895-01-028-4390)  
TRUCK CHASSIS, 75,000 GVWR, 8 X 6,  
FOR CONCRETE-MOBILE® MIXER TRUCK,  
M919 (NSN 3895-01-028-4391)

AM GENERAL CORPORATION

TA 075632

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HEADQUARTERS, DEPARTMENT OF THE ARMY

NOVEMBER 1980

This copy is a reprint which includes current pages from Changes 1 through 4.

Technical Manual

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
Washington, DC, 28 November 1980

No. 9-2320-273-20

ORGANIZATIONAL MAINTENANCE MANUAL

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M919 (NSN 3895-01-028-4391)

**REPORTING OF ERRORS**

You can help improve this publication. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publication and blank forms), or DA Form 2028-2 located in back of this Publication direct to: US Army Tank-Automotive Command, ATTN: DRSTA-MBP, Warren MI 48090. A reply will be furnished to you.

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**HOW TO USE THIS MANUAL**

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This manual contains the following information to help you understand how the truck/tractor works, how to service it, and how to make authorized repairs.

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**WHAT THIS MANUAL CONTAINS**

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This manual is divided into chapters which provide the following information:

**CHAPTER 1 – INTRODUCTION**

This chapter contains general information on different truck/tractor models covered in this manual. Included are illustrations showing the inside and outside of the vehicle.

**CHAPTER 2 – PRINCIPALS OF OPERATION**

This chapter contains information on how the vehicle works. It is divided into sections by function: fuel system, oil system, etc. (see Table of Contents for complete listing).

**CHAPTER 3 – TRUCK/TRACTOR MAINTENANCE**

This is the integrated maintenance chapter. It includes information that applies to all the maintenance chapters that follow (chapter 4 thru 11), including the following important information:

- a. When to inspect, test, and service the vehicle. (Preventive Maintenance Checks and Services.)
- b. How to find the best troubleshooting procedures for a specific problem. (Troubleshooting Symptom Index.)

**CHAPTERS 4 THRU 12 - INDIVIDUAL MAINTENANCE CHAPTERS (See Table of Contents).**

These chapters give you the following information:

- a. How to find out what's causing a problem. (Troubleshooting Procedures.)
- b. A list of authorized maintenance procedures. (Maintenance Task Summaries.)
- c. Detailed procedures for replacing and servicing component parts (Task Procedures). Procedures include a list of special tools that you'll need (if any), materials required and references to other manuals, if needed.

This listing includes the nomenclature cross reference list and the list of abbreviations used in this manual.

---

**A. NOMENCLATURE CROSS REFERENCE LIST**

---

**Common Name**

Air Cooler, Intercooler  
Drive Shaft  
Power Steering Cylinder  
Dual Control Valve, Treadle Valve  
Crankcase Breather  
Antifreeze, Ethylene Glycol Mixture  
Power Transfer/Differential Lockup Control  
Cold Start System  
Tail Pipe  
Float Switch  
Power Steering Pump, Power Steering Reservoir  
Ratio Valve  
Differential Lockout Engaged Switch  
Splash Shields  
Intermediate Pipe  
Brake Control Valve  
PTO Propeller Shaft U-Joint  
Jacobs Brake Cover, Valve Cover,  
Cylinder Head Cover  
Stowage Box  
Cross Tube  
Hand Control Valve for Trailer  
Exhaust Pipe

**Official Nomenclature**

Aftercooler  
Propeller Shaft  
Auxiliary Assist Cylinder  
Dual Brake Valve  
Breather Tube  
Coolant  
Differential Lockup Control  
Ether Quick-Start System  
Exhaust Stack  
Fuel Level Sending Unit  
Hydraulic Pump and Reservoir Assembly  
Limiting Valve  
Lockout Switch  
Mud Flaps  
Muffler Inlet Pipe  
Park Brake Valve  
PTO-to-Pump Coupling  
  
Rocker Arm Housing Cover  
Seat Risers and Tool Box  
Tie Rod  
Trailer Brake Valve  
Turbo Outlet Pipe

---

**B. LIST OF ABBREVIATIONS**


---

|        |  |
|--------|--|
| amp    | ampere                                     |
| approx | approximate                                |
| attn   | attention                                  |
| cm     | centimeter                                 |
| cu ft  | cubic foot/cubic feet                      |
| cu m   | cubic meter                                |
| cu yd  | cubic yard                                 |
| DA     | Department of the Army                     |
| dia    | diameter                                   |
| desc   | description                                |
| fig    | figure                                     |
| GVWR   | gross vehicle weight rating                |
| gnd    | ground                                     |
| in.    | inch                                       |
| Kg     | kilogram                                   |
| kph    | kilometers per hour                        |
| m      | meter                                      |
| MI     | Michigan                                   |
| mph    | miles per hour                             |
| MTOE   | Modified Table of Organization & Equipment |
| No.    | number                                     |
| NSN    | National Stock Number                      |
| para   | paragraph                                  |
| PMCS   | Preventive Maintenance Checks & Services   |
| P/N    | part number                                |
| psi    | pounds per square inch                     |
| PTO    | Power Takeoff                              |
| qt     | quart                                      |
| ref    | reference                                  |
| TM     | technical manual                           |
| TMDE   | Test, Measurement & Diagnostic Equipment   |
| vert   | vertical                                   |

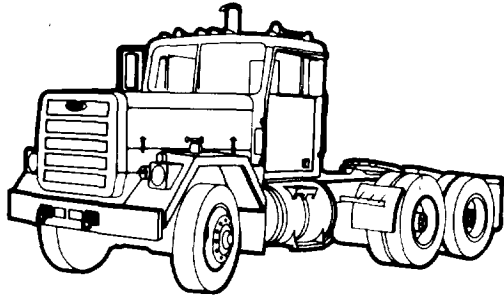


**Reporting Equipment Improvement Recommendations (EIR's).**

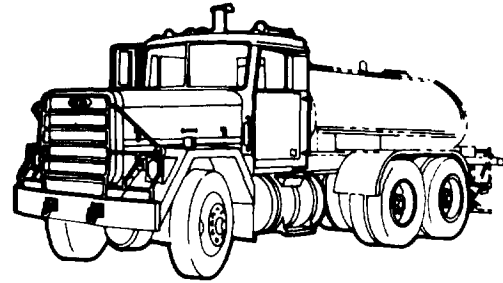
EIR's can and must be submitted by anyone who is aware of an unsatisfactory condition with the equipment design or use. It is not necessary to show a new design or list a better way to perform a procedure, just simply tell why the design is unfavorable or why a procedure is difficult. See TM 38-750. Mail EIR's directly to Commander, U.S. Army Tank Automotive Materiel Readiness Command, ATTN: DRSTA-MTC, Warren, Michigan, 48090. A reply will be furnished to you.

**Equipment Improvement Report and Maintenance Digest (EIR MD) and Equipment Improvement Report and Maintenance Summary (EIR MS).**

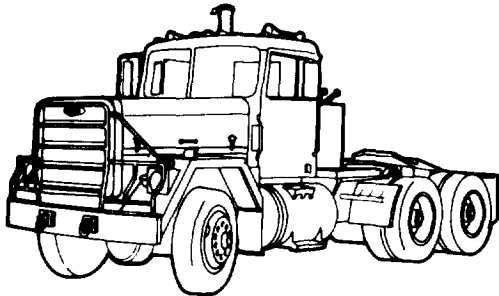
The quarterly Equipment Improvement Report and Maintenance Digest, TB 43-0001-39 series, contains valuable field information on the equipment covered in this manual. The information in the TB 43-0001-39 series is compiled from some of the Equipment Improvement Reports that you prepared on the vehicles covered in this manual. Many of these articles result from comments, suggestions, and improvement recommendations that you submitted to the EIR program. The TB 43-0001-39 series contains information on equipment improvements, minor alterations, proposed Modification Work Orders (MWO'S), warranties (if applicable), actions taken on some of your DA Form 2028's (Recommended Changes to Publications), and advance information on proposed changes that may affect this manual. In addition, the more maintenance significant articles, including minor alterations, field-fixes, etc., that have a more permanent and continuing need in the field are republished in the Equipment Improvement Report and Maintenance Summary (EIR MS) for TARCOM Equipment (TM 43-0143). Refer to both of these publications (TB 43-0001-39 series and TM 43-0143) periodically, especially the TB 43-0001-39 series, for the most current and authoritative information on your equipment. The information will help you in doing your job better and will help in keeping you advised of the latest changes to this manual. Also refer to DA Pam 310-4, Index of Technical Publications, and Appendix A, References, of this manual.



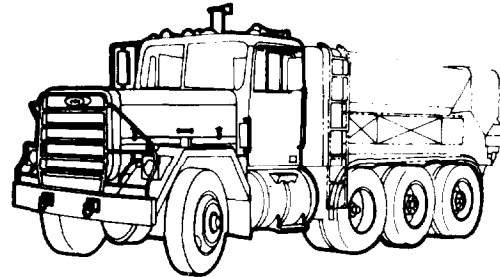
M915 LINE HAUL  
TRUCK TRACTOR



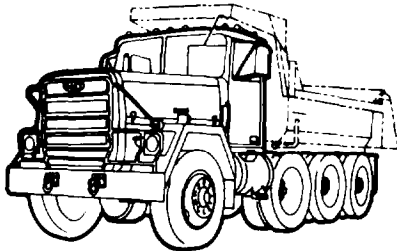
M918 BITUMINOUS  
DISTRIBUTOR TRUCK



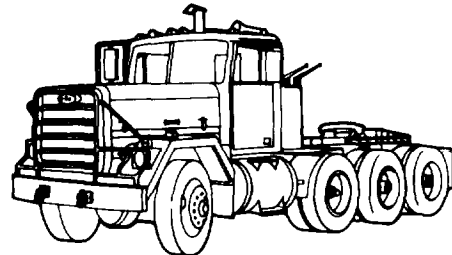
M916 LIGHT EQUIPMENT  
TRANSPORTER TRUCK TRACTOR



M919 CONCRETE-  
MOBILE<sup>®</sup> MIXER TRUCK



M917 20-TON DUMP TRUCK



M920 MEDIUM EQUIPMENT  
TRANSPORTER TRUCK TRACTOR

Figure 1-1. M915 Series Vehicles

TA 074553

## CHAPTER 1

### INTRODUCTION

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#### **1-1. OVERVIEW.**

This chapter provides you with the following information:

- a. Forms and record data required for maintenance.
  - b. Physical description of each truck model and major equipment components.
- 

### Section I GENERAL INFORMATION

---

---

#### **1-2. SCOPE.**

Type of Manual: Organizational Maintenance.

Model Numbers and Equipment Names (fig. 1-1):

- a. M915 Line Haul Truck Tractor
- b. M916 Light Equipment Transporter Truck Tractor
- c. M917 20-Ton Dump Truck
- d. M918 Bituminous Distributor Truck
- e. M919 Concrete Mobile Mixer Truck
- f. M920 Medium Equipment Transporter Truck Tractor

Chassis Designations:

- a. Type I – Model M915
  - b. Type II – Models M916 and M918
  - c. Type III – Models M917, M919, and M920
- 

#### **1-3. MAINTENANCE FORMS, RECORDS, AND REPORTS.**

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-250, The Army Maintenance Management System.

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#### **1-4. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.**

Requirements and procedures for destruction of Army materiel to prevent enemy use are given in TM 750-244-6.

---

## **1-5. ADMINISTRATIVE STORAGE.**

---

Storage information is given in TM 740-90-1, Administrative Storage.

---

## **Section II EQUIPMENT DESCRIPTION AND DATA**

---

---

### **1-6. PURPOSE OF EQUIPMENT.**

---

- Model M915. Used for on-road line hauling of loads up to a gross vehicle weight rating of 50,000 lbs (22,680 Kg), 30,000 lbs (13,608 Kg) on fifth wheel.
- Model M916. Used for transporting light equipment, both on and off the road, up to a gross vehicle weight rating of 56,000 lbs (25,402 Kg), 28,000 lbs (12,700 Kg) on fifth wheel.
- Model M917. A heavy-duty, 20-ton dump truck used to haul aggregate and similar materials. Capable of operating both on and off the road, up to a gross vehicle weight rating of 75,000 lbs. Hauls 15.2 cu yds (11.62 cu m) heaped, and 19.6 cu yds (14.98 cu m) with 12 inch sideboards.
- Model M918. Used with a mounted bituminous distributor to spread 375 gallons (1,419.52 liters) of bitumen per minute at a road speed of 1.5 miles per hour (2.41 K/H).
- Model M919. Used with a mounted concrete mixer to mix and spread concrete at a maximum rate of 40 cu ft per minute. Can transport sufficient cement, sand, coarse aggregate and water to mix 8 cu yds (6.12 cu m) on-site.
- Model M920. Used to transport medium equipment both on and off the road, up to a gross vehicle rating of 75,000 lbs (34,020 Kg), 40,000 lbs (18,144 Kg) on fifth wheel.

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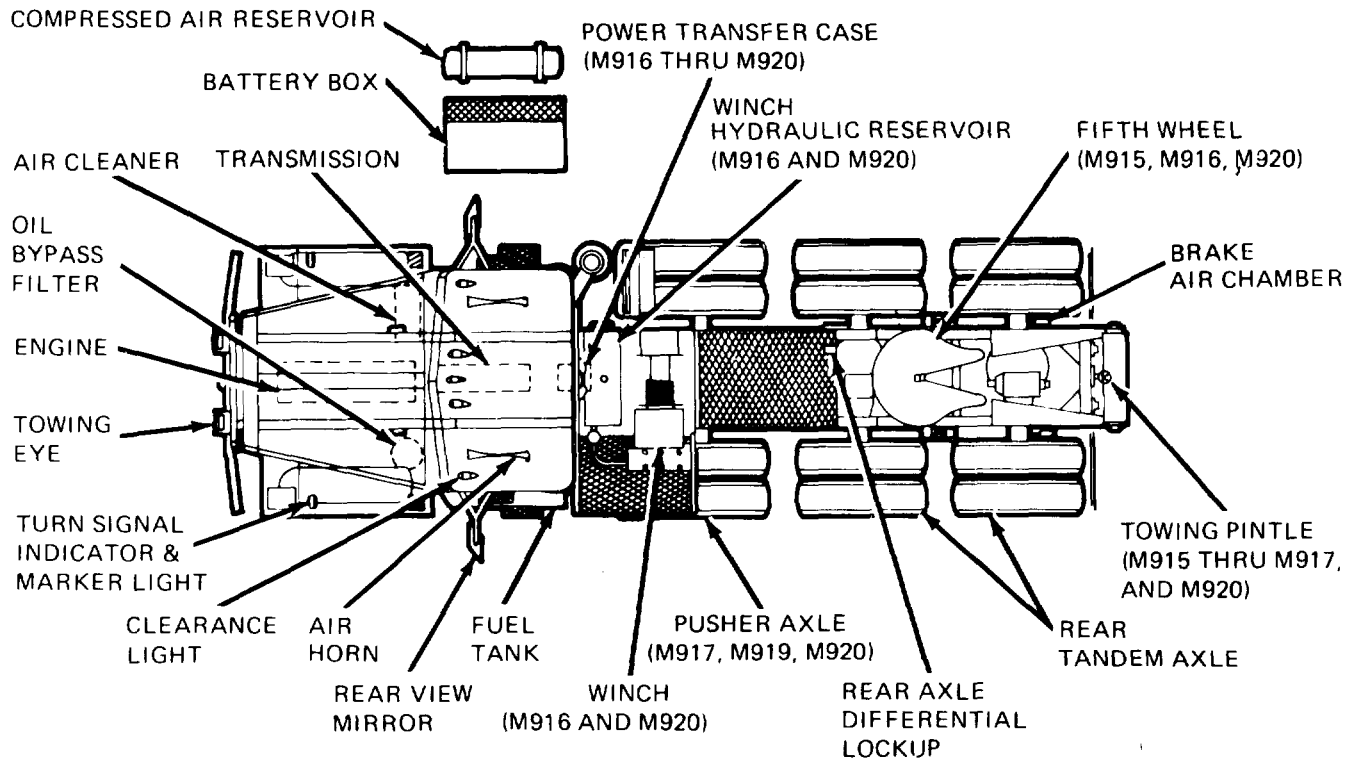
### **1-7. CAPABILITIES AND FEATURES.**

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- a. Interchangeable frame components (Exception: Frames for Types II and III chassis have an added 3/8-inch outer channel.)
- b. Commercial-type replacement parts for entire vehicle, available through national network of dealers and vendors.
- c. Commercial operating components that require no special maintenance procedures and a minimum of special tools:
  - (1) Six-cylinder, in-line, four-stroke, four-cycle turbocharged diesel engine.
  - (2) Semi-automatic, centrifugal clutch transmission with 16 forward and 2 reverse speeds.
  - (3) Transfer case for front wheel drive (M916 thru M920).
  - (4) Pusher axle for weight distribution (M917, M919, and M920).
  - (5) Rear tandem axle.
  - (6) Power Takeoff (PTO) for power to drive accessories (M916 thru M920).
  - (7) Winch (M916 and M920).

**1-8. LOCATION OF MAJOR EXTERIOR COMPONENTS.**

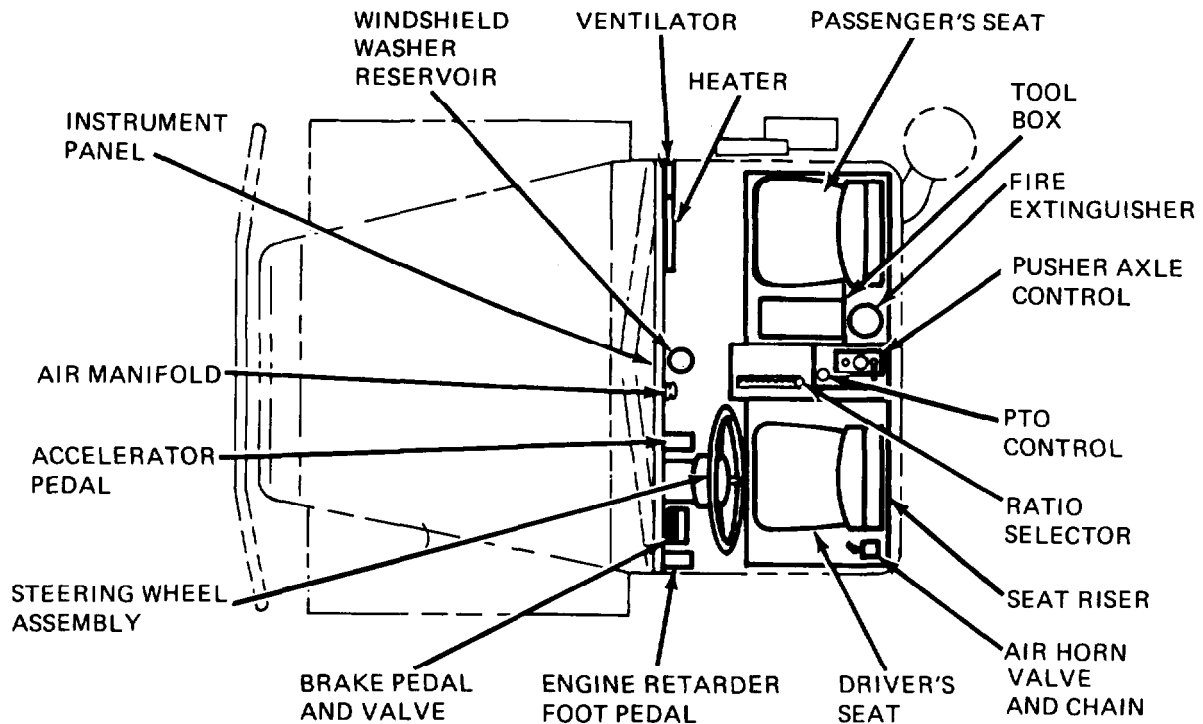
The illustration below identifies the major exterior components located on one or more models of M915 thru M920 vehicles. See table 1-1, Differences Between Models for model configuration differences and a reference to detailed information. Also see the Operator's Manual TM 9-2320-273-10.



TA 074554

**1-9. LOCATION OF MAJOR INTERIOR COMPONENTS.**

The illustration below identifies the major interior components located on the M915 thru M920 vehicles. No identification plates, instruction plates, warranty plates, modification plates or stencils are applicable to organizational maintenance.



**1-10. DIFFERENCES BETWEEN MODELS.**

The major equipment and functional differences between models are given in table 1-1. For illustrations and descriptions, refer to the following:

- a. Illustration of each model (fig. 1-1).
- b. Purpose of each model (para 1-6).
- c. Differences between models (table 1-1).

Table 1-1. Differences Between Models.

| EQUIPMENT/FUNCTION                    | VEHICLE MODEL |      |      |      |      |      | DESC/REF<br>(PARA) |
|---------------------------------------|---------------|------|------|------|------|------|--------------------|
|                                       | M915          | M916 | M917 | M918 | M919 | M920 |                    |
| Type I Chassis.                       | X             |      |      |      |      |      | 1-2                |
| Type I I Chassis.                     |               | X    |      | X    |      |      | 1-2                |
| Type III Chassis.                     |               |      | X    |      | X    | X    | 1-2                |
| Transfer Case.                        |               | X    | X    | X    | X    | X    | 2-14               |
| Pusher Axle.                          |               |      | X    |      | X    | X    | 2-16               |
| Driving Front Axle.                   |               | X    | X    | X    | X    | X    | 2-19               |
| Spare Tire and Wheel<br>Assembly.     | X             | X    |      |      |      |      | 10-11,10-12        |
| Hoist for Spare.                      | X             | X    |      |      |      | X    | -                  |
| Towing Pintle.                        | X             | X    | X    |      |      | X    | -                  |
| Fifth Wheel.                          | X             | X    |      |      |      | X    | 11-13              |
| Spacer Kit for Fifth<br>Wheel.        |               | X    |      |      |      | X    |                    |
| Winch.                                |               | X    |      |      |      | X    | 2-80               |
| Work Lamps – Stationary.              |               | X    |      |      |      | X    | 2-48               |
| Work Lamps – Portable.                | X             | X    |      |      |      | X    | 5-54               |
| Power Takeoff (PTO).                  |               | X    | X    | X    | X    | X    | 2-78               |
| Hose Tender and Cable<br>Support.     | X             | X    |      |      |      | X    | -                  |
| Backup Alarm.                         |               | X    | X    | X    | X    | X    | -                  |
| Double Rail Frame.                    |               | X    | X    | X    | X    | X    |                    |
| Front Shock Absorbers.                | X             |      |      |      |      |      |                    |
| No-Spin Differential (1)              | X             |      |      |      |      |      |                    |
| (2)                                   |               | X    | X    | X    | X    | X    |                    |
| Tires:                                |               |      |      |      |      |      |                    |
| Highway.                              | X             |      |      |      |      |      |                    |
| On/Off Road.                          |               | X    | X    | X    | X    | X    |                    |
| Special Bodies:                       |               |      |      |      |      |      |                    |
| Dump Body.                            |               |      | X    |      |      |      |                    |
| Bituminous Distributor.               |               |      |      | X    |      |      |                    |
| Concrete-Mobile <sup>®</sup> Mixer.   |               |      |      |      | X    |      |                    |
| Auxiliary Power Steering<br>Cylinder. |               | X    | X    | X    | X    | X    |                    |
| Sliding Rear Window.                  |               | X    |      |      |      | X    |                    |
| Front and Rear Air<br>Connections.    | X             | X    |      |      |      | X    |                    |
| Tail Roller.                          |               |      |      |      |      | X    |                    |
| 24V Receptacle.                       | X             | X    | X    |      |      | X    |                    |