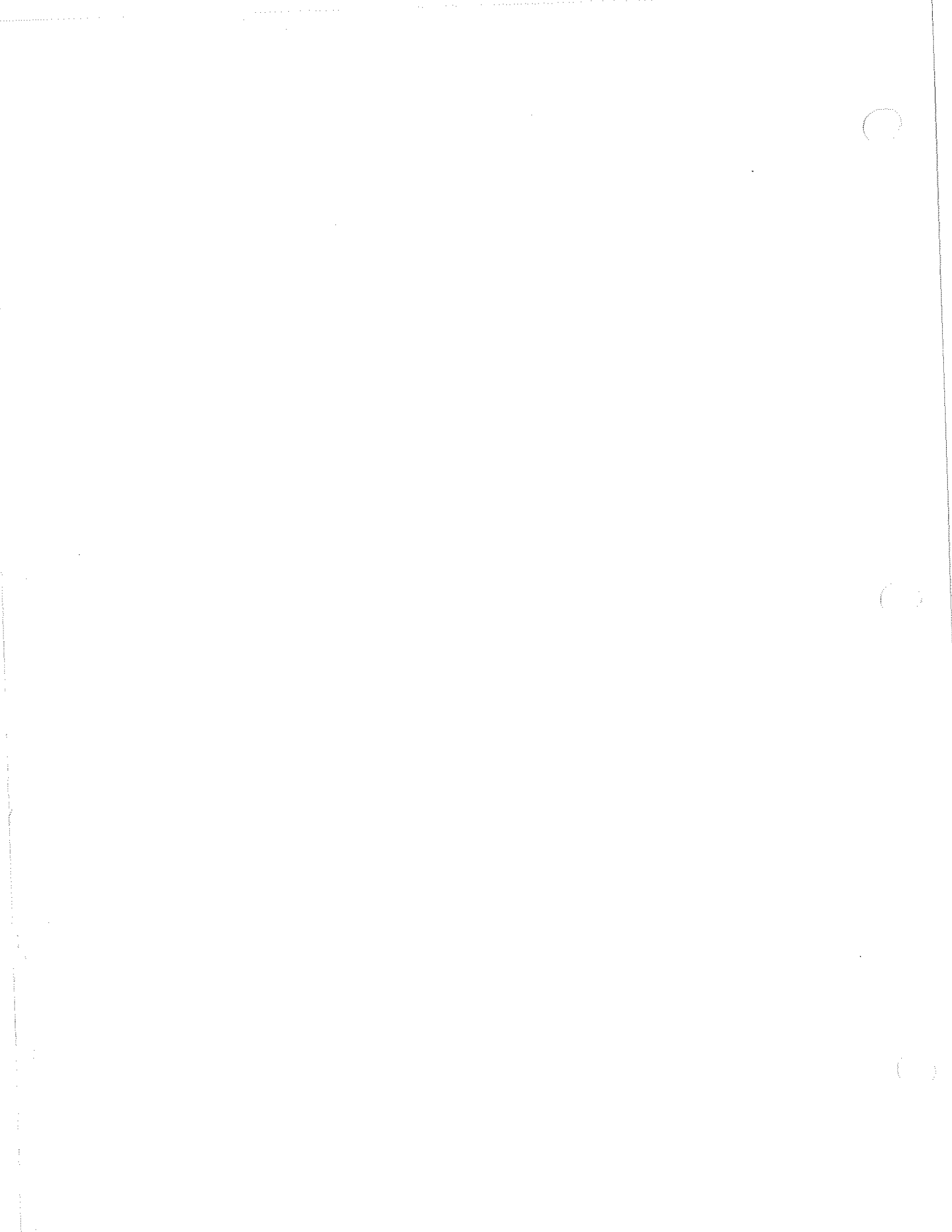


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INTRODUCTION

The Parts Manual is designed to list and illustrate the items necessary to support the Lectra Haul and Dart product lines produced by Unit Rig, a division of Terex Corporation, of Tulsa Oklahoma. The drawings, illustrations, and lists are divided into fourteen (14) sections to aid in the identification and acquisition of parts from Unit Rig.

The fourteen (14) sections and their primary contents are as follows:

NOTE: To ease in the locating of the proper drawings:

1. The applicable drawings and their accompanying bill of materials are assembled in numerical order within their applicable sections.

2. The indexes at the front of the manual and the beginning of each section are in alphabetical order.

NOTE: As a general rule the drawings in Sections 2 - 9 contain the items in the basic unit. Optional features are included in Section 10 - Options.

1. **Introduction** - explains the proper use of the manual. Also included is an alphabetical index of all items in the manual and their location.
2. **Structure** - contains the primary structural and mounting items of the unit, with the exception of the cab (listed separately in Section 9-Cab) and the axles (listed separately in Section 7 - Running Gear).
3. **Electrical** - contains the majority of the 24 volt and power system drawings with the exception of those in the cab.
4. **Power Package** - contains the basic drawings include in the engine module and/or engine/transmission drive system.
5. **Hydraulic System** - contains the drawings for the basic equipment in the hydraulic control system except those mounted in the cab..
6. **Piping** - contains the drawings for the pneumatic system and the interconnecting piping of other systems, again with the exception of that in the cab.
7. **Running Gear** - contains the drawings of the front and rear axles, suspensions, and tire and rim assemblies along with related hardware.
8. **Brake System** - contains the drawings for the wheel mounted brake assemblies.
9. **Cab** - contains the drawings of the cab assembly, including the structural, electrical, hydraulic, and piping assemblies.
10. **Options** - contains the drawings of optional features incorporated into the specific unit.
11. **Reference** - contains items and information which does not ordinarily conform to the other sections on this manual, including the Master machine Record or Truck Specification.
12. **Service Parts** - contains the service detailed drawings of the normally serviceable components on the unit.
13. **Technical Data** - contains the Hydraulic, Pneumatic, and 24 Vdc and Power and Excitation Electrical schematics and other technical material required to support the unit.
14. **Numerical Index** - contains a three (3) column list of all the part numbers in this Manual in numerical order with reference to the appropriate drawing, section, and item numbers.

NOTE: The term "Right Hand (R.H.)" and "Left Hand (L.H.)" refer to the view from the drivers seat.

WHEN ORDERING PARTS

In order to avoid costly delay in the procurement of parts:

1. Always give the model and serial number of each machine for which the parts are being ordered.
2. Order all parts by part number, description, and quantity.
3. Only item with part numbers shown are normal service items. When no item part number appears, order the part by giving the drawing number and description, in addition to the machine model and serial number.

HOW TO USE THIS MANUAL

WHEN THE PART NUMBER IS KNOWN

1. Refer to the numerical index. Locate the part number and note the drawing, section, and item number.
2. Turn to the drawing indicated.
3. If a pictorial presentation or location of a part is required, refer to its location on the drawing's pictorial.

WHEN THE PART NUMBER IS NOT KNOWN

1. Determine the function and application of the part required.
2. Using the Alphabetical Index or Table of Contents and select the most appropriate title. Note the drawing number.
3. Turn to the drawing indicated and located the desired part on the drawing.
4. Using the drawing, obtain the desired part. Refer to the accompanying Bill of Material for the specific part number.

NOTE: If the item is not listed, try another drawing.

NOTE: If the item is marked as having a Service Part Drawing, refer to that drawing for additional information and/or detail.

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Windshield Wiper Assembly	09	A83432A
Wiper Assembly, Windshield	09	A83432A
Wire Harness Kit, Steering Column	12	2001995
Yellow Paint	02	56300E

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<u>Component</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>
Air Cleaner Assembly				
.Air Cleaner	55397	04	A84927A	001
.Air Cleaner	NA	--	NA	---
...Primary Element.....	901727	12	55397	015
...Safety (Secondary) Element	901728	12	55397	011
...Vacuator Valve	901105	12	55397	020
Air Conditioning				
.Clutch Assembly	On comp.....	--	On comp.	---
.Compressor Assembly	55874	09	A84788N	010
..Compressor.....	NA	--	NA	---
.Expansion Valve	55553	09	A84788N	002
.Knob.....	1009428	09	A84788N	004
.Receiver/Dryer	1009442	09	A84788N	021
Alternator				
.Battery Charging	2002856	12	84942B.....	007
.Traction	---	04	56123	---
..Brushes	2000366	12	56123	057
Automatic Lubrication System				
.Gauge	20081	06	A85188A	030
.Injector Assemblies (Parts Avail.)				
..2 injector.....	19646	06	A85188A	007
..3 injector.....	23884	06	A85188A	006
..4 injector.....	18744	06	A85188A	005
.Pump.....	56341	06	A85188A	001
.Relay (Time Delay).....	NA	--	NA	---
.Timer	NA	--	NA	---
.Vent Valve Assembly	55563	06	A85188A	020
Axlebox				
.Bushing (Suspension Mounting)	947095	07	A84162A	005
.Dirt Ring	55283	07	A84162A	010
.Nosecone Bearing.....	84149A.....	07	A84162A	002
.Seal Material (Door)	51135	07	A84162A	026
.Sleeve ("Sacrificial")	83721H.....	07	A84162A	006

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Belts

.Air Conditioning	12453	09	A84788N	012
.Battery Charging Alternator	2002799	12	84942B	005
.Engine Fan	2002798	12	84942B	004
.Scavenger Blower Drive	NA	--	NA	---

Brake Actuation System Components

.Accumulator	56297	05	A85184A	031
..Repair Kit	916430	12	56297	K01
.Brake Pilot Valve	55294	05	A85184A	001
..Repair Kits Available	---	12	55294	---
.Brake Controller Valve	83954A	05	A85184A	002
..Repair Kits Available	---	12	83954A	---
.Pressure Gauge	20081	05	A85184A	094

Brake Calipers

.Front	55890	08	A84196B	001
..Carrier and Lining Assembly	915766	12	55890	005
..Repair Kit	916084	12	55890	K01
.Park	53455	08	A84066B	003
..Carrier and Lining Assembly	915730	12	53455	011
..Repair Kit	915738	12	53455	K1
.Rear	55303	08	A84066B	002
..Carrier and Lining Assembly	915785	12	55303	009
..Repair Kit	53140	12	55303	K1

Brake Discs

.Front	75662C	08	A84196B	003
.Rear	51498	08	A84066B	012

Cab

Controls				
..Retarder Pedal	53490	09	80169G	001
..Throttle Pedal Valve	83461B	09	81161K	001
Gauges				
..Air Cleaner Restriction	55296	09	A83850C	001
..Air Pressure	NA	--	NA	---
..Ammeter	NA	--	NA	---
..Fuel	83484C	09	77904S	002
..Hourmeter (Standard)	51341	09	77904S	005
(Propulsion)	NA	--	NA	---

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..Hydraulic Oil Temperature	NA	--	NA	---
..Oil Pressure	83486B	09	77904S	004
..Speedometer	83378B	09	81116K	001
..Tachometer	83378H	09	81116K	002
..Voltmeter	83484A	09	77904S	001
..Water Temperature	83485A	09	77904S	003
.Glass				
..Door				
...Left	84568C	12	85081C	002
...Right	84568E	12	85081E	002
..Rear	84572B	09	83400J	008
..Windshield	84181A	09	83400J	006
.Heater				
..Filter (Standard)	1004320	09	A83419C	053
(Extra)	NA	--	NA	---
..Knobs	1009428	09	A83419C	034
..Motor	1009438	09	A83419C	004
..Brushes	NA	--	NA	---
.Horn				
..Electrical	55617	03	A85164A	074
.Indicator Lights				
..Amber	83340A	09	A85142B	059
... Bulb	83341B	12	83340A	003
..Red	83340B	09	A85142B	060
... Bulb	83341B	12	83340B	003
..Power Supply (12 Vdc)	83276B	09	A85142B	024
..Seat - Driver's	--	09	83955U	---
..Seat Compressor	NA	--	NA	---
..Seat - Passenger's	--	09	83955W	---
..Selector Switch	20379	09	A84217B	001
..Switches	--	09	A85242B	---
..Auxiliary/Manual Steering	55756	09	A85142B	026
..Dump Body Up Override	NA	--	NA	---
..Engine Stop/Start	56265	09	A85142B	025
..Heater Blower Motor	26908	09	A83419C	038
..Loading Brake	53904	05	A85184A	076
..Park Brake	53896	09	A85142B	068

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Reference Index	Part	Sec.	Assembly	Itm
<u>Component</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>
..Retarding Speed Control				
...Potentiometer.....	915441	09	A84217B	016
...Switch.....	915153	09	A84217B	015
.Turn Signal System				
..Flasher.....	55697	09	A85142B	082
.Wiper Assembly				
..Arm.....	55920	09	A83432A	015
..Blades.....	55921	09	A83432A	016
..Motor.....	53636	09	A83432A	001
..Switch.....	53238	09	A83432A	018
 Control Box				
.Contactors				
..GF, MF.....	51339	03	A85105A	037
...Contactor (without interlock).....	16825	12	51339	001
...Tips.....	900095	12	16825	028
..P1.....	55537	03	A85105A	079
...Tips				
...Moveable.....	2001434	12	55537	008
...Stationary.....	2001433	12	55537	007
..RP1, RP2.....	51933	03	A85105A	084
...Contactor (without interlocks).....	52734	12	51933	001
...Tips.....	702528	12	52734	051
..RP3, 4, 5.....	51933	03	A85105A	174
...Contactor (without interlocks).....	52734	12	51933	001
...Tips.....	702528	12	52734	051
..RP6, 7, 8, 9.....	NA	--	NA	---
...Contactor (without interlocks).....	NA	--	NA	---
...Tips.....	NA	--	NA	---
.Card Rack.....	A83567C	03	A85105A	160
.Filter.....	24465	03	A85105A	219
.Rectifier.....	52577	03	A85167A	001
.Reverser.....	55538	03	A85105A	105
.Tips (Kit).....	2001422	12	55538	K01
.Static Exciters				
..AFSE (Alternator Field).....	55289	03	A85105A	121
..MFSE (Motor Field).....	55290	03	A85105A	120

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Reference Index	Part	Sec.	Assembly	Itm
Component	No.	No.	No.	No.
Dump Body				
.Dump Body	---	02	A84294H	---
..Liners	NA	--	NA	---
.Pads	79849C	02	A84263G	001
.Pivot Bushings	80309H	02	A84263G	007
.Pivot Pins	81281G	02	A84263G	006
.Rock Ejectors	73323G	02	A84091B	002
.Shim Block	84068A	02	A84263G	015
Dump System Components				
.Control Valve	55565	05	A85183A	001
..Overcenter Orifice Plate (Not includ. w/valve)	55772	05	A85183A	124
..Service Kits Available	---	12	55565	---
.Cylinder	80052E	05	A84148A	001
..Repair Kit/Parts Available	915399	12	80052E	K1
.Pilot Control Valve	55561	05	A85183A	037
..Repair Kits Available	---	12	55561	---
.Pressure Gauge	20081	05	A85183A	075
Electric Sending Units				
.Engine Coolant Level	55386	04	A85158A	026
.Engine Coolant Pressure	Engine	--	Engine	---
.Engine Coolant Temp. (Gauge)	56268	04	A85158A	033
.Engine Coolant Temperature	Engine	--	Engine	---
.Engine Crankcase Pressure	Engine	--	Engine	---
.Engine Oil Level	NA	--	NA	---
.Engine Oil Pressure	83405E	04	A84963A	045
.Fuel Cooler (Thermostatic Valve)	56323	04	A84963A	055
.Hydraulic Oil Temperature	NA	--	NA	---
Engine Filters				
.Fuel				
..Primary or Prefilter	2002797	12	84942B	002
..Secondary or Final	2002574	12	84942B	003
.Oil				
..By-pass)	NA	--	NA	---
..Primary Oil	2002796	12	84942B	001
..Sleeve - Centrifugal	NA	--	NA	---

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
Fire Suppressant System				
.Actuation Cartridge	NA	--	NA	---
.Automatic Actuation Assembly				
..Battery Module	NA	--	NA	---
..Cartridge..	NA	--	NA	---
..Detection Wire.....	NA	--	NA	---
..Squib	NA	--	NA	---
..Fire Extinguisher, Portable.....	NA	--	NA	---
..Fire Extinguisher, Portable.....	NA	--	NA	---
Front Wheel				
.Bearings				
..Inner	52924	07	82559E	004
..Outer	52956	07	82559E	005
.Rim Mounting Hardware				
..Clamps	16780	07	82559E	014
..Nuts	24565	07	82559E	016
..Stud Bolts.....	947898	07	82559E	015
.Seal Assembly				
..Rub Ring	79003C	07	82559E	002
..Seal.....	52951	07	82559E	003
Fuel and Hydraulic Tank				
..Left Tank (Hydraulic).....	83769C	05	A85185A	001
..Auto Drain Valve	NA	--	NA	---
..Hydraulic Oil Temperature Switch.....	22404	05	A85185A	018
..Low Oil Level Sender	55252	05	A85185A	019
..Sight Plugs	51360	05	A85185A	015
..Vacuum Relief Valve.....	55539	05	A85185A	014
..Right Tank (Fuel)	63138T	02	A84204N	001
..Dry Break Receiver	18431	02	A84204N	031
..Low Fuel Level Sensor.....	55252	02	A84204N	049
..Sight Plugs	51360	02	A84204N	048
..Transmitter	55584	02	A84204N	040
..Vent Valve.....	22374	02	A84204N	032

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
Grid Box				
.Blower Motor	55554	03	A85022A	028
.Brushes	2001211	12	55554	032
.Grid Resistor	55589	03	A85022A	025
.Grid Resistor	55590	03	A85022A	026
.Grid Resistor	55591	03	A85022A	027
Hydraulic Filters				
.Dump System (Pressure)	55585	05	A85183A	009
.Element	916254	12	55585	K01
.Steering System (Pressure)	55585	05	A85180A	005
.Element	916254	12	55585	K01
.Suspension Charging Pump	28826	11	82681A	009
.Element	914002	12	28826	K1
.System Fill	55893	05	A85185A	030
.Element	55894	12	55893	004
Hydraulic Pumps/Equipment				
.Driveshaft	84202E	05	A85186A	004
.U-joints	916248	12	84202E	K01
.Dump Pump Section	56090	05	A85186A	001
... Seal Kit	2002091	12	56090	K01
.Steering Pump Section	55507	05	A85186A	002
... Seal Kit	916311	12	55507	K1
.Manual Power Supply	51049	05	A85187A	001
.Hydraulic Pump	915449	12	51049	001
... Repair Kit	915273	12	51049	K1
.. Relief Valve	915448	12	51049	027
.Motor (24 Vdc Electric)	1014318	12	51049	031
.Solenoid	913086	12	51409	032
Lights				
.Back Up	52741	03	A84216A	
.....	004			
..Additional	NA	--	NA	---
...Bulb	52933	12	52741	002
.Cab Indicator (Overhead)				
..Dynamic Retarding (Amber)	NA	--	NA	---
..Overspeed Retarding (Blue)	NA	--	NA	---
..Service Brake (Red)	NA	--	NA	---

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
Clearance				
..Front (Amber)	703052	03	A84216A	022
...Bulb	2001492	12	703052	001
..Rear (Red).....	18857	03	A84216A	003
...Bulb	1011594	12	18857	001
..Dynamic Retarding.....	18858	03	A84216A	002
...Bulb	2001491	12	18858	001
..Fog Lights	NA	--	NA	---
...Bulb	NA	--	NA	---
Headlights				
..High Mounted	NA	--	NA	---
...Bulb	NA	--	NA	---
..Standard.....	51675	03	A84216A	001
...Bulb	28342	12	51675	003
Service				
..Axlebox				
...Bulb	55951	03	A85164A	008
...Housing	56197	03	A85164A	009
..Cab (Dome).....	52498	09	83400J	080
...Bulb	947118	09	83400J	081
..Control Box	900503	03	A85105A	190
..Engine				
...Bulb	55951	03	A85164A	008
...Housing	56197	03	A85164A	009
..Hydraulic Box.....	900503	03	A85164A	039
..Stairway				
...Bulb	55951	03	A85164A	008
...Housing	56197	03	A85164A	009
..Tail/Stop.....	18857	03	A84216A	003
...Bulb	1011594	12	18857	001
Mirrors				
..Left Side.....	28649	02	A84414A	001
..Right Side.....	52963	02	A84415A	001

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
Mud Flaps				
.Air Cleaner (Ladder).....	1002206	02	A84257B	001
.Dump Body	56161	02	A84257B	017
.Fender				
..Left.....	56162	02	A84257B	006
..Right.....	56163	02	A84257B	015
..Side (Mirror)	55977	02	A84737B	003
..Superstructure (Rear)	NA	--	NA	---
Paint				
.Paint				
..Federal Yellow	---	02	56300E	---
..White	NA	--	NA	---
.Non - Slip (Black)	---	02	27528	---
.Non - Slip (Yellow)	NA	--	NA	---
.Primer				
..Gray	---	02	56300C	---
..Red Oxide	NA	--	NA	---
Pneumatic System				
.Air Aftercooler	NA	--	NA	---
..Repair Kit	NA	--	NA	---
.Air Compressor Governor	NA	--	NA	---
.Automatic Drain Valve.....	NA	--	NA	---
.Safety Relief Valve.....	NA	--	NA	---
.Shut Off Valve	NA	--	NA	---
Pressure Regulators				
.Electrical Components	NA	--	NA	---
.Radiator Pressurization.....	NA	--	NA	---
Quick Disconnect Fittings				
.Auxiliary Dump (Truck)				
..Connector.....	55568	05	A85183A	022
..Dust Cap	24766	05	A85183A	023
.Auxiliary Dump (Mate)				
..Connector.....	2001376	--	----	---
..Dust Cap	NA	--	NA	---

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
.Brake System (Truck)				
..Quick Coupling	52612	05	A85184A	170
..Test Coupling	55652	05	A85184A	159
.Brake System (Mate)				
..Connector	NA	--	NA	---
..Dust Cap	NA	--	NA	---
.Central Service (Truck)				
..Engine Coolant				
...Connector	24498	06	A84279G	007
...Dust Cap	1013662	06	A84279G	010
..Engine Oil				
...Connector	24496	06	A84279G	008
...Dust Cap	1011565	06	A84279G	011
..Fuel				
...Connector	18431	02	A84204N	031
...Dust Cap	NA	--	NA	---
..Hydraulic Oil				
...Connector	25561	06	A84279G	009
...Dust Cap	28944	06	A84279G	012
..Lubricating Grease				
...Connector	25561	06	A85188A	083
...Dust Cap	28944	06	A85188A	084
.Central Service (Mate)				
..Engine Coolant				
...Connector	914280	--	NA	---
...Dust Cap	NA	--	NA	---
..Engine Oil				
...Connector	51408	--	----	---
...Dust Cap	NA	--	NA	---
..Fuel				
...Connector	----	--	---	---
...Dust Cap	NA	--	NA	---
..Hydraulic Oil				
...Connector	914281	--	----	---
...Dust Cap	NA	--	NA	---
..Lubricating Grease				
...Connector	914281	--	NA	---
...Dust Plug	NA	--	NA	---

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
Dump System (Truck)				
..Connector.....	55723	05	A85183A	032
..Test Coupling	55652	05	A85183A	031
..Dust Cap	NA	--	NA	---
Dump System (Mate)				
..Connector.....	NA	--	NA	---
..Dust Cap	N/A	--	N/A	---
Shop Air				
..Truck	NA	--	NA	---
..Mate	NA	--	NA	---
Steering System (Truck)				
..Connector.....	55723	05	A85180A	070
..Test Coupling	55652	05	A85180A	069
Steering System (Mate)				
..Connector.....	NA	--	NA	---
..Dust Cap	N/A	--	N/A	---
Radiator				
..Fan.....	56035	04	A84776C	035
..Radiator.....	84909B	04	A84010H	012
Reverse Warning Horn	24995	03	80943J	001
Solenoid Valves				
..Air Tank Shut Off.....	NA	--	NA	---
..Brake Auto Apply	NA	--	NA	---
..Horn	NA	--	NA	---
..Repair Kit	NA	--	NA	---
..Park Brake				
..Radiator Pressurization	NA	--	NA	---
..Starter Interlock.....	NA	--	NA	---
..Repair Kit	NA	--	NA	---
Starter System				
..Lubricator	NA	--	NA	---
..Relay Valve	NA	--	NA	---
..Starter	2002805	12	84942B	006
..Repair Parts Available.....	Engine	--	Engine	---

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
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Steering System Components

.Accumulator	55506	05	A85180A	004
..Repair Kit	916245	12	55506	-K1
.Cylinders	84092E	07	A83700A	005
..Repair Kit	84109E	12	84092E	K01
.Flow Amplifier.....	55450	05	A85180A	001
..Repair Parts Available.....	---	12	55450	---
.Hand Pump	55445	05	A85180A	002
..Repair Parts Available.....	---	12	55445	---
.Pressure Gauges	20081	05	A85180A	063

Suspensions

.Front.....	55895	07	A83800H	001
..Dirt Seals.....	55283	07	A83800H	006
..Mounting Bushings.....	947095	07	A83800H	003
...Sleeve	83721F	07	A83800H	011
..Mounting Pins	80289G	07	A83800H	002
..Seal Kit.....	2001887	12	55895	K01
.Rear	55896	07	A83801F	001
..Dirt Seals.....	55389	07	A83801F	006
..Mounting Bushings.....	55499	07	A83801F	003
..Sleeve	83721G	07	A83801F	010
..Mounting Pins	83043B	07	A83801F	002
..Seal Kit.....	2001887	12	55896	K01

Switches

.Electric				
..Battery Isolation				
...Cab Mounted.....	NA	--	NA	---
...Frame Mounted	55580	03	A85164A	026
..Master	27647	09	A85142B	022
.Limit				
..Brake Light.....	NA	--	NA	---
..Coolant Flow	NA	--	NA	---
..Dump Body Up.....	65057C	03	82280P	001
..Hand Brake	NA	--	NA	---

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Reference Index Component	Part No.	Sec. No.	Assembly No.	Itm No.
Pressure				
..Accumulator Precharge				
...Brake System.....	NA	--	NA	---
...Steering System.....	NA	--	NA	---
..Autolube.....	51701	06	A85188A	033
..Blower Pressure.....	28512	03	A85167A	070
..Brake System				
...Auto Apply System.....	NA	--	NA	---
...Brake Drag.....	NA	--	NA	---
...Hand Brake.....	NA	---	NA	---
...Low Brake Pressure.....	84657F	05	A85184A	026
...Park Brake Pressure.....	84657C	05	A85184A	035
..Engine Shutdown Delay System.....	NA	--	NA	---
..Hourmeter (Propulsion System).....	NA	--	NA	---
..Manual Power Supply.....	84657E	05	A85187A	018
..Steering System				
...Low Steering Pressure.....	84657F	05	A85180A	068
..Toggle				
..Engine Service Light.....	55578	03	A85164A	067
..Engine Stop.....	21546	03	A85164A	058
..Stairway Light.....	55578	03	A85164A	067
.Proximity				
..Brake Light.....	53963	12	55294	034
.....	53963	12	83954A	046
Wheel Motor Assembly				
..Breathers/Filter.....	24465	07	A83829M	008
..Mounting Hardware				
..Capscrews.....	22838	07	A83829M	004
..Hardened Flatwashers.....	17026	07	A83829M	003
..Rim Mounting Hardware				
..Clamps.....	83173B	07	A83829M	006
..Nuts.....	24565	07	A83829M	005
..Stud Bolts.....	82253A	07	A83829M	002
..Wheel Motors.....		07	82225M	---
..Brushes.....	2001964	12	82225M	227

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Reference Index	Part	Sec.	Assembly	Itm
<u>Component</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>	<u>No.</u>