



PURCHASING DEPARTMENT

COLE COUNTY COMMISSION

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To: All Interested Parties
From: Jennifer Prenger, Cole County Purchasing Agent
Date: May 4, 2017
Re: Addendum One to Cole County Bid No. 2017-21: One Single Axle Dump Truck

The following information hereby becomes part of the above-referenced Request for Bid and shall be fully considered in the preparation of your response.

SINGLE AXLE DUMP TRUCK

1. The 9.3 liter or larger diesel engine requirement has been revised to 8.9 liter or larger.
2. The 15.5-inch ceramic clutch requirement has been revised to 14 or 15.5-inch.
3. The power steering requirement has been revised to dual power steering.

DUMP BODY AND HYDRAULIC SYSTEM

1. The following requirement has been added: Tailgate to be stainless steel with AR inner panel.

The revised specifications are attached with changes identified in **RED**.

The bid receipt date and time HAVE NOT BEEN CHANGED; submissions will be received until Monday, May 8 at 9:00 a.m.

I/We have received Addendum Number One to Bid No. 2017-21 and have fully considered the information provided in preparing a response.

Name of Company

Agent and Title

Authorized Signature

**COLE COUNTY DEPARTMENT OF PUBLIC WORKS
DUMP BODY AND HYDRAULIC SYSTEM SPECIFICATIONS
SECOND PARTY BID FORM #2017-21**

Bid Specifications for one (1) - 6 CUBIC YARD DUMP BODY & HOIST FOR MOUNTING ON ONE NEW 89 INCH CAB TO AXLE STANDARD DUAL REAR MEDIUM DUTY TRUCK CHASSIS. Indicate ability to meet specifications; ANY EXCEPTIONS SHALL BE NOTED ON BIDDERS RESPONSE FORM.

INSTALLER(S) OF THE FOLLOWING EQUIPMENT MUST BE AN AUTHORIZED FACTORY DISTRIBUTOR AND SERVICE CENTER.

The County has a grader mounted spreader that has to have clearance from obstacles behind the truck. The frame shall be cut off behind the spring attachment and you shall weld a steel frame plate to the frame to allow for the clearance. All lights and hydraulic couplers shall be placed behind of same level surface as the steel plate.

BODY IS CONTRACTORS TYPE:

YES NO

- Seven (7) feet by ten (10) feet long inside measurements. **All steel to be stainless steel** other than the **AR-400** steel in the floor, tail gate. Long sills to be **I-beam** construction of High alloy heavy duty steel.
- 6 cubic yards water level capacity at sides
- Cross memberless design
- Tailgate to be at least six(6) inches taller than side rails
- All side braces and tail gate braces to be horizontal
- All welded seven (7) gauge construction on all sides **201 stainless steel**.
- Bed floor to be 1/4 inch thick **AR-400 STEEL**
- Tailgate to be double acting with 1/4 inch **AR-400** steel gauge box section
- Tailgate to be stainless steel with AR inner panel**
- Pressed stainless steel reinforcing on sides
- Seven(7) gauge center reinforced horizontal boxed section **stainless**
- Side mounted 5/16 inch spreader and hold chains for tailgate to be furnished
- Top hinge pins with grease zert to be removable, minimum of 1 1/4 inch diameter
- Bottom hinge pin with grease zert to be a minimum of 1 1/4 inches in diameter
- Air tailgate hardware with overhanging top hinge
- Tailgate to be air actuated with trip located on hydraulic control bracket between driver and passenger seats
- Hoist lift arm connection assembly to be integral with body
- Side board sockets to be provided with rough cut oak board fillers
- Side boards to be painted black using an outside paint
- Stainless steel Cab protector to be installed on dump body
- Bed to have flush mounted strobe lights in cab shield and in rear of truck, lights in cab shield are to be installed in protective **stainless** housings, and all wiring installed in conduit.
- Top rail sides and tail gate to be material shedding design
- Weld a 3/8 chain hook on tail gate to be used for tail gate removal
- Tool box (similar or equal to Roughneck TB36AB) 36" length, 18"height, 16" depth, to be installed by dealer. Tool box to be mounted on the passenger side of truck
- Tarp system: Spring loaded tarp system, alum arms and electric drive with tarp housing in

lieu of wind deflector

Hydraulic Pump:

The pump shall be axial piston load sensing type
The pump shall be 4.33 cid and capable of 42 GPM at 2500 RPM and 3000PSI
The pump must have side ports to avoid multiple 90-degree bends in the suction line; (rear ports are not acceptable)
The pump case drain must be positioned as high as possible and directed back to the reservoir without passing through the return line filter
The pump must have an internal bleed down compensator
The pump must have a 1 ¼" keyed shaft and a c 2-bolt mounting flange
Ports must be of the split flange design, 2" suction and 1 ¼" pressure and supplied with flange blocks to convert to NPT thread
Must be similar or equal to a Rexroth model: A10V071DFR/31LPKC62N

Pump Drive:

The driveline must be 1280/1310 series solid shaft style
The driveline shall come with all crosses, pump end yoke and flange for engine
The pump shall be driven off the engine crankshaft

Hydraulic Reservoir:

Reservoir shall be 30-gallon minimum capacity with the breather cap mounted to an inspection lid. Inspection lid shall also provide for an in tank mounted return line filter. Breather cap fill neck must be screened.
Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port will allow for installation of a 2" NPT 50 GPM suction screen. Suction screen will have a 3 to 5 PSI by-pass spring.
Reservoir must be constructed of 10-gauge steel.
As an integral part of the reservoir, there shall be an area for mounting of the hydraulic stack valve. Reservoir must be of template style for bulkhead "through" mounting of the valve and be completely free from internal tubing or hoses from the work ports and inlet of the valve.
Valve must be removable as a unit with template through the top of the reservoir for service and accessibility. Valve compartment area will have a drain tube of at least 1 ¼" in diameter and be placed to the front side the reservoir and incorporate an angled base below the valve to allow fluid and condensation to flow easily to drain tube area.
There must be three additional side access panels for further service and accessibility. All panels must have formed gaskets and be weather sealed with bottom welded mounting nuts for panels.
Mechanical cable and Electrical connections shall be made via bulkhead connectors on the front (cab) side of the reservoir. Reservoir must be symmetrical and capable of mounting on either side of the truck frame. Must be similar or equal to model CP-RES305-VMSG-LSSGTMF-DS or -PS.
Serviceguard reservoir is acceptable.

Hydraulic Return Filter:

Filter shall be top tank mounted type 10 microns with a by-pass and replaceable cartridge element.
Filter shall be capable of 80 GPM flow capacity.
Filter shall have one 1 ¼" NPT port with the ability to be machined for another.
A bypass condition pressure switch is required.
Similar or equal to CERTIFIED POWER model FPR2520N10NR4KXXB is acceptable.

Hydraulic Stack Valve:

The valve shall be of a mobile stackable design load sensing type.

The valve shall be capable of a nominal 35 GPM with published flow curves to 40 GPM. The valve must be pressure and flow compensated. Changing a valve section from single to double acting is done by replacing a shuttle cartridge.

Inlet and outlet ports to be 1" o-ring, all working ports shall be 3/4" o-ring.

Valve to be arranged as follows:

Inlet cap with pressure, tank and load sense port.

Double acting cylinder spool for hoist, with a work port relief for downside protection on port "A". Proportional 12 VDC operated.

Single acting cylinder spool for plow lift. 12 VDC bang-bang operated with adjustable section flow compensator.

Double acting cylinder spool for left/right. 12 VDC bang-bang operated with adjustable section flow compensator.

Single acting motor spool for feeder, proportional 12 VDC spring to center with manual override. Flow range or 0-15 gpm.

Single acting motor spool for spinner, proportional 12 VDC spring to center with manual override. Flow range of 0-7 gpm.

Outlet cap with pressure reducing valve and solenoid drain.

Similar or equal to Rexroth model MP18 is acceptable.

Spreader Control:

Control shall be of an open loop design ground speed controlled.

Control shall be capable of both automatic and manual modes.

The control shall have a time programmable blast feature.

Both auger and spinner shall shut-off at zero mph in automatic mode.

Shall have programmable feed rates, lane widths, valve trims, MPH and auger calibrations.

Control shall have 9 detented spread rates and 9 detented lane widths.

Control shall be capable of an optional LED remote display.

All calibrating shall be done from the front faceplate.

Control shall be reverse polarity and short circuit protected and have internal fuse.

Both valve drives shall be capable of 2.5 amps at 0-12 vdc.

Similar or equal to model ACS by CERTIFIED POWER is acceptable.

Control Console:

Control console shall be constructed of stainless steel.

Console shall have provisions for mounted the above-mentioned spreader control. Top portion of console shall have 2 electric joysticks mounted in it.

Hoist stick shall be 12 VDC proportional control with a neutral Dead Man lock.

Plow stick shall be a dual axis design 12 VDC on/off with a detent in the down position for plow float.

Snow plow control system as to have a plow balancer valve included to control the weight of the snow plow cutting edge, this valve to be adjustable and a intergraded part of the valving system

The console shall also come with 6 switch functions to operate the following:

Master on/off

Plow Lights Hi/off/Low

Strobe Light

Spreader Light

Aux

Low Oil/Change Filter indicator

All switches shall be rocker design with engraved backlit lenses for function.

All connections shall be made on the bottom of the console and be twist lock amp

connectors.

All cables necessary shall come with console.

Console shall be between the seats easily reachable by the operator, mounted on eight inch square tublar style stand.

Similar or equal to Storm guard model SG2035XFX by Component Technology is acceptable.

___ ___ Hydraulic hoses: All hydraulic hoses and couplings for snow plow and cinder spreader to be included.

___ ___ Water tight electric enclosure: A water tight enclosure to be frame mounted with all electric components for Tarp, snow plow and cinder spreader controls .

HOIST- CLASS 50, UNDERBODY DOUBLE ARM LIFT TYPE W/DOUBLE ACTING CYLINDER, MINIMUM SPECIFICATIONS AS FOLLOWS:

YES NO

___ ___ The hoist you propose to furnish must have a double acting cylinder which provides power-up and power-down action.

___ ___ Hoist to be not less than a minimum diameter of eight(8) inches.

___ ___ Hoist shall have a minimum stroke of twenty-one(21) inches with a solid torque trunion.

___ ___ Hoist must be manufactured in such a manor so as to prevent oil from escaping at the cylinder base.

___ ___ Sub-frame to be all steel.

___ ___ Frame to be full length of width and maximum height of not more than six(6) inches.

___ ___ Dumping angle to be not less than forty(40) degrees.

___ ___ Hoist hinges to be fastened to long sills with a minimum of 6 5/8 inch heated cap screws.

___ ___ Overhang of body to be a minimum of twelve(12) inches.

___ ___ Hinge pins for hoist to be removable.

___ ___ Welded flat hinge or welded three point type hinge acceptable.

___ ___ Standard OSHA equipment.

ATTACHMENTS TO DUMP BODY:

YES NO

___ ___ Tool holder to made of 3/4 inch rod welded to the dump body on the left and right side of the body. Location of rod is 12 inches above the horizontal boxed section of body. Rod to be welded to each vertical support.

___ ___ A drivers side ladder will be made of 3/4 inch rod with tread grips on each rung. The width of the ladder shall be twelve (12) inches with rungs starting eighteen (18) inches above the ground. A ladder rung shall be placed twelve (12) inches above the bottom rung and the next rung at 8 inches. The tool holder will be used as the fourth step.

ATTACHMENTS TO FRAME AND BUMPER:

YES NO

___ ___ Two (2) rear tow hooks installed per county location.

___ ___ 1/2 inch steel plate welded to back frame with hose connections and Air Activied 90,000 lb. pintel hitch.

COLOR:

YES NO

___ ___

The all AR steel and mild steel to be painted black all stainless materials to remain unpainted.

___ ___ **OPTIONAL SNOW PLOW** to be similar or equal to a Henke 30R11IS Snow plow 11 feet wide and 30 inches tall. Plow to have eight curved vertical ribs, moldboard to have a integral shield which will constitute the mold board face 19 inches forward of the cutting edge. Plow to have a 8 inch cutting edge and a full moldboard trip. A single section 10 ft. by 12 inch rubber shield shall be installed on top of moldboard. Circle push frame shall consist of a 3 1/2 x 3/1/2 x 3/1/2 steel angle rolled in an arc spanning 66 inches. The A-frame will be constructed of 4 inch channel, Trip springs shall be of an enclosed spring trip. The enclosed spring trip consists of an outer housing with two inner compression springs, The outside inner compression spring shall be 5 3/8 in diameter, 19 7/8 long. The inside inner compression spring shall be 3 3/8 in diameter and 19 5/8 long. Plow shall have two, three inch bore reversing hyd. Cylinders and equipped with quick couplers. Standard cutting edge are 1/2 thick x 8 inches tall AASHTO standard punched. Plow to have a universal quick hitch lift frame made of 1/2" x 3" x4" structural angle. The lower receiving boxes to have stationary welded pins of cold rolled steel. 1 1/2 in diameter and the lower braces for the lift frame are to be 1" x 3" and if adequate length to attach to the chassis above the front axle. All cylinder pins are to be 1" cold roll steel. Lift group must allow the hood on the truck to be opened without removing an of the plow lift group. The lift group to have a telescoping lift arm the lift tube shall be a 3" x 3" x 3/8" steel tube approximately 23 inches long and have four pin positions. Plow lift group to have a double acting cylinder to work with the plow balance valve. **Prices to include installation**

___ ___ **OPTIONAL CINDER SPREADER** to be a self contained stainless steel tailgate spreader for mounting on a standard single axle dump truck, unit to have a 9 inch gear driven auger. And an opening trough made of 7 gauge stainless steel and 1/4 inch end plates with chain slots for easy removal. Spreader to be a Quick disconnect mounting unit to included end spill shield to eliminate material loss between dump body and spreader. Spinner assembly to be a 18 inch removable spinner direct drive spinner assembly to be adjustable for variations of spread patterns which can be made from right to center and left to center will remaining parallel to the road and all dump angles. All hyd. hook ups to use quick couplers for easy removal. Unit to have a plate to cover auger, for rock hauling without removing the unit from the truck body. **Prices to included installation**

**COLE COUNTY DEPARTMENT OF PUBLIC WORKS
ONE SINGLE AXLE DUMP TRUCK
BID NUMBER 2017-21**

AN EVALUATION MATRIX HAS BEEN ADDED TO THIS BID- PLEASE REVIEW THIS DOCUMENT. MANDATORY AND DESIRABLE ITEMS WILL BE CONSIDERED; BIDS WILL BE EVALUATED BASED ON MEETING THE STATED SPECIFICATIONS, COST, SERVICE, AND DELIVERY TIME.

THE FOLLOWING ARE THE MINIMUM SPECIFICATIONS FOR ONE (1) NEW SINGLE AXLE DUMP TRUCK WITH A 10 FOOT DUMP BODY AND FRONT MOUNTED CENTRAL HYDRAULICS. THESE SPECIFICATIONS SHOW THE TRUCK COMPONENTS. **TRUCK WILL HAVE A MANUAL TRNSMISSION**

YOU SHALL MEET THE MINIMUM MANDATORY REQUIREMENTS OF THIS BID SPECIFICATION OR YOUR BID WILL BE EXCLUDED.

State the model on which you put these components together on the BIDDER RESPONSE FORM. It is up to you to change any power train item to make this a complete truck. Gear ratio is left out until the successful respondent consults with the County for the matching engine and transmission.

Note the bid for your second party for the dump bed central hydraulic and attachments on the BIDDER RESPONSE FORM.

Bidders must be factory distributors

There will be a post bid meeting with the recommended bidders (truck dealer and bed/hydraulic dealer) and the Public Works Department to discuss the bid proposal prior to any order being placed.

ALL TRANSPORTATION COSTS INCLUDING VEHICLE, BODY AND TRANSPORTATION COMPONENTS ARE F.O.B. DESTINATION FREIGHT PREPAID TO THE COLE COUNTY DEPARTMENT OF PUBLIC WORKS.

THE COUNTY OF COLE RESERVES THE RIGHT TO WAIVE TECHNICALITIES AND TO REJECT ANY OR ALL BIDS. NO BID IS FINAL UNTIL IT IS FORMALLY ACCEPTED BY THE COLE COUNTY COMMISSION.

ANY ADVERTISEMENTS ARE TO BE LEFT OFF VEHICLES DELIVERED TO THE COLE COUNTY DEPARTMENT OF PUBLIC WORKS.

ANY EXCEPTIONS SHALL BE NOTED ON THE BIDDER RESPONSE FORM WHERE INDICATED.

**BID NUMBER 2017-21
MINIMUM SPECIFICATIONS
ONE SINGLE AXLE DUMP TRUCK WITH BED AND HYD.**

MANDATORY – MARKED WITH “M” DESIREABLE-MARKED WITH “D”

ANY EXCEPTIONS SHALL BE NOTED ON THE BIDDER RESPONSE FORM.

MODEL AND YEAR OF VEHICLE _____

I. POWER TRAIN COMPONENTS:

WHEELBASE

YES NO

___ ___ **M**-WHEEL BASE: **164** INCH PLUS OR MINUS 4 INCHES CAB TO AXLE, **89** INCHES AXLE TO FRAME

ENGINE AND ENGINE COMPARTMENT

YES NO

___ ___ **M**-DIESEL ENGINE: **8.9 LITER OR LARGER**, MIN. 310 H.P., Net SAE Torque 1000 ft/lb
MODEL OF ENGINE: _____

___ ___ **D**-SNOW GATE ON BREATHER

___ ___ **M**-Heavy duty dry type air cleaner

___ ___ **D**-Full - flow disposable type oil filter

___ ___ **M**-Magnetic oil plug

___ ___ **M**-Low oil pressure and high water temperature alarm system

___ ___ **M**-Heavy duty extra cooling radiator with overflow recovery reservoir

___ ___ **M**-Permanent type anti-freeze installed to protect -20 degrees below zero

___ ___ **M**-12 volt battery with **130** amp or larger alternator

___ ___ **M**-Three 1950 CCA Maintenance free Batteries

___ ___ **M**-1000 watt electric engine block heater

___ ___ **M**-Single VERTICAL EXHAUST PIPE WITH SAFETY SHIELD

___ ___ **M**-Fuel/water separator with electric heater included

TRANSMISSION

YES NO

___ ___ **M**- FULLER RTO (F) 11908LL 10 SPEED MANUAL WITH DOUBLE LO AND OVER DRIVE

CLUTCH

YES NO

___ ___ **M** – **14 OR** 15.5 INCH CERAMIC CLUTCH WITH MIN. 1700 FT LBS OF TORQUE CAPACITY

AXLES

YES NO

___ ___ **M**-AXLE: FRONT SET FORWARD WIDE TRACK 14,000 # MINIMUM CAPACITY
ALL OIL LUBRICATED WET SEALS.

___ ___ **M**-AXLES: REAR 23,000 # CAPACITY WITH MAGNETIC TRAP REAR AXLE TO BE
FILLED WITH SYNTHETIC OIL (EMGARD 75W-90)

GEAR RATIO TO BE DECIDED AFTER BID AWARD FOR COUNTY APPROVAL!

SPRINGS

YES NO

SPRINGS LOAD CAPACITY:

___ ___ **M**-FRONT: 14,000# TOTAL @ GROUND, MULTILEAF FRONT AUX RUBBER STOPS
WITH SHOCK ABSORBERS.

___ ___ **M**-REAR: 23,500 lb. WITH 4500 lb. AUXILIARY SPRINGS

FRAME:

YES NO

- M**-HI-tensile steel frame rated at 120,000 psi, with section modulus as follows:
C-channel Frame 2,600,000 RBM @ 22.12 Section modulus
- M**-Front 20 inch INTEGRAL extended frame for central hydraulics.
- M**-PROVISIONS FOR FRONT MOUNTED HYD. PUMP (Front 20 inch integral frame extension)

II. BRAKES:

YES NO

- M**-Complete air brake system with **13.2** cubic foot min. cap. compressor
- M**-ABS Braking System
- M**-Emergency air brake equipment
- M**-Low air pressure warning buzzer
- M**-Dash mounted air pressure gauge
- M**-Rear brake dust shields
- M**-Air dryer with heater
- M**-Front and rear brakes using a limiting automatic slack adjuster

III. WHEELS & TIRES-SEVEN (7):

YES NO

- M**-Front – 22.5-10 BOLT metric mount 9 inch DC rims with steel hubs “BUDD” DISC WHEELS
315/80R225 Tubeless Highway Tread Tires
- M**-Rear - 22.5-10 BOLT metric mount 8.25 inch DC rims with steel hubs “BUDD” DISC
WHEELS, 11R225 14PLY Non Directional Mud and Snow Tires
- M**-Spare – 22.5 – 10 BOLT“BUDD” DISC WHEEL
11R225 Non Directional Mud and Snow Tire

IV. CAB INTERIOR

YES NO

- M**-Premium or high level cab with minimum **HEIGHT CLEARANCE OF 57 INCHES** with tinted glass all around
- M**-Fresh air heat to floor and cab area, dual defrosters, factory installed air-conditioning
- M**-Intermittent electric windshield wipers with washer
- M**-Air horn **FACTORY INSTALLED**
- M**-Drivers seat – Cloth, air suspension, with high back and integral headrest, lumbar support
- M**-Passenger seat – cloth, fixed one-man companion seat, high back (non-suspension)
- M**-Seat belts with outboard retractors for driver and passenger, also with LH and RH shoulder belts
- D**-RH and LH arm rests
- D**-Stowage box on RH side of dash with door and latch
- M**-Dual Power steering
- M** Tilt steering wheel
- M**-High idle hand throttle control – locking type or electronic
- M**-AM/FM/CD Radio **cell phone blue tooth capable**
- M**-Gauge cluster with engine tachometer, speedometer, water temperature, oil pressure, air pressure, volts, and fuel guage.
- M**-Dome light and hazard warning flashers
- D**-Cigarette lighter/cell phone auxiliary jack
- D**-Dual padded sun visors
- M**-Electric hook ups for two auxiliary items (cb & two way radio)
- M**-Power windows and Power door locks

V. CAB EXTERIOR STEEL CONVENTIONAL CAB

YES	NO	
___	___	M-MOTORIZED LH and RH HEATED west Coast type 6 inch by 16 inch mirrors MOUNTED ON ALUMINUM HEADS AND BRACKETS.
___	___	D-Mirrors to have integrated heated spotting mirrors mounted below west coast mirrors LH and RH
___	___	M-LH Running board
___	___	D-Drip moldings over doors
___	___	D-Forward tilting fiberglass hood and fenders with stationary grill
___	___	D-Front Fender extensions
___	___	M-Front Steel bumper, swept back with two (2) tow hooks.
___	___	M-Halogen Headlights
___	___	M-Cab rear suspension, air bag type
___	___	M-Combination tail and stop lights rear - mounted between frame and not to extend beyond the rear part of the frame
___	___	D-Dual face front fender mounted turn signal lamps with reflectors and side markings
___	___	M-Electronic Rear back-up alarm controlled with back-up light.
___	___	D-RH and LH Cab entry assist grab handles
___	___	M-Fuel tank, Aluminum 50 US Gal. diesel, step mounted located on left side of cab

TRACTOR PACKAGE

YES	NO	
___	___	M-Tractor Package with air and glad hands to rear of truck, and electrical hook ups for seven pin trailer jacks.

VI. ELECTRICAL SWITCHES OR CIRCUITS FOR AUXILLARY EQUIPMENT

YES	NO	
___	___	M-Seven way trailer connection socket mounted at the rear of frame
___	___	M-Auxiliary harness for snow plow lights front mounted
___	___	M-Circuits for electronic snow plow equipment (check with bed installer)
___	___	M-One outside work light
___	___	M-Minimum of 4 extra 20 amp circuits and toggle switches dash mounted for extra equipment
___	___	M-Pigtail wiring for stop, tail, turn lights at the rear corner post of dump body
___	___	D-Pre trip exterior light test switch, will cycle all exterior lamps except back up lights.

PAINT REQUIREMENTS: (MANDATORY)

Exterior color to be Dupont automotive Dulux Enamel Paint **WHITE** IN COLOR, **WHITE** WHEELS,- **BLACK** frame, and undercarriage to be black. Grille, headlamp rims, bumper, etc., to be standard component color. Interior color to be exterior color with color with color keyed interior trim, upholstery, seat belts, visors, floor mats, and etc.

NOTE: All Equipment and options shall be factory installed.

Warranty

Bidder to include a bid for an extended warranty of 5 years, 150,000 miles or 5400 hrs on engine, engine electronics and fuel injectors for this period of time.

BID NUMBER 2017-21

EXCEPTIONS TO CHASSIS BID, ANY TO BE NOTED HERE.

WHEEL
BASE

ENGINE

TRANSMISSION

CLUTCH

AXLES

SPRINGS

FRAME

BRAKES

WHEEL
ASSEMBLE

CAB
INTERIOR

CAB
EXTERIOR

TRACTOR
PACKAGE

ELECTRIC
CIRCUITS
