



NORTH CAROLINA SHERIFFS' ASSOCIATION

Name of Dealership	Type of Vehicle	Zone	Base Unit Price
<u>MACK - LR633 – (6X4 – NATURAL GAS – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) (Specification #37)</u>			
Transource, Inc.	2017 Mack LR633	★Appalachia	\$128,192.80
Transource, Inc.	2017 Mack LR633	★Dogwood	\$128,192.80
Transource, Inc.	2017 Mack LR633	★Cardinal	\$128,192.80
Transource, Inc.	2017 Mack LR633	★Longleaf Pine	\$128,192.80



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MACK - LR633 – (6X4 – NATURAL GAS – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) SPECIFICATION #37

2017 Mack LR633

ALL ITEMS FACTORY INSTALLED UNLESS OTHERWISE INDICATED

INSTRUCTIONS: Listed above, you will find the model numbers of the vehicles that will be included in this year's contract.

1. CUSTOMER/VEHICLE INFO

- a. Vehicle Vocation - Refuse / landfill operation
- b. Loading Surface - Concrete loading and /or unloading surface
- c. Terrain Grade - Normal Highway, Starting Grades
- d. Vehicle use & Body/Trailer Type - Refuse automatic side loader truck
- e. Vehicle Application Class - Class B Highway-Inner City
- f. Language-Pubs/Decal/Signs - English
- g. Initial Registration Location - Any state EXC. Calif or Hawaii (US14)
- h. Type Of Services - Commerical
- i. Customer Fleet Size - Dealer Fleet with less than 25 vehicles in own fleet of any vehicle brand
- j. Price Book Level - 2008-10-07
- k. Chassis (Base Model) - LR633 R (9L CNG)) - 6x4 DayCab

2. ENGINE/TRANSMISSIONS

- a. Transmission Electronics - Refuse W/auto-neutral, 2nd gear limit secondary mode
- b. Transmission - 4500 RDS 6 SP-Allison rugged duty series GEN 5 W/prognostics
- c. Engine Package - ISL-G 320 Cummins 320 @ 2200 RPM

3. EXHAUST/EMISSIONS

- a. DPF Diesel Particulate Filer - Without DPF, with vertical RH side BOC-3way catalytic converter (CNG/LNG)
- b. Exhaust - No muffler, single (R/S) vert straight EXH stack plain end, side outlet diffuser, outboard
- c. Exhaust System Material Finish - Standard exhaust system material finishing.
- d. Exhaust Aftertreatment System - 3 way catalytic converter
- e. Regenerate Control Switch, DPF - Without DPF regeneration control switch
- f. Emission on Board DIAG Control - Without emission on board diagnostic

4. ENGINE EQUIPMENT

- a. Air Cleaner - 15" Single element factory OPT
- b. Air Compressor - Cummins twin 30.4 CFM
- c. Alternator - 12V160A Delco 24SI Brush type
- d. Batteries - 3-12V Mack M/F 31 650 CCA threaded Stud type
- e. Cooling Performance - Extra narrow radiator with length1 (60 DM2), 41 DEG C ATB cooling capacity W/O AUX RAD
- f. Coolant Protection - Texaco extended life coolant #7998 w/nitrites (50/50 mix) to -34 DEG
- g. Radiator Blind - Waterfront
- h. Coolant Filter / Conditioner - Without filter/conditioner
- i. Engine Block Heater Receptacle (CA) - Engine block heater receptacle, MTD LH side rear of CAB (NYC)

- j. Fan Drive - Horton fan. "ON-OFF"--replaces 1181010
- k. Engine Brake - W/O ENG BRK
- l. Fuel-Water Separator - Cummins CNG coalescing fuel filter stanchion MTD on frame
- m. Fuel Equipment Water Heater (CA) - Fuel equipment, heater for the CNG supply regulator
- n. Battery Box-Mounting - Single box 3 batt perp, to frame 11" from NTOF
- o. Battery Box Cover - Basic battery box cover
- p. Emergency Start Studs - Without emergency start studs
- q. Battery Disconnect Switch - Mechanical switch positive connect type-US10
- r. Hoses- Radiator/Heater - Silicone
- s. Tether DEV PKG, CAPS & Covers - Tether PK2: Batt box cover
- t. Engine Block Heater - W120 Volt / 1.0 kw, Cummins engine block heater
- u. Battery Shock Pads - Without battery shock pads
- v. Smart Idle Elevated Idle RPM Time - Increase 10 minutes maximum time

5. CLUTCH/TRANS EQUIPMENT

- a. Drive-Main - Meritor 176 MXL "xtended lube"
- b. Driveline-Interaxle - Meritor 17 MXL "xtended lube"
- c. Lubricants, Transmission - Transynd synthetic auto trans fluid
- d. Transmission Oil Cooler - Remote MTD oil cooler furnish for Allison transmission
- e. Prop Shaft Bearing Guard - Without prop shaft bearing guard
- f. Propeller Shaft Main, Univsl JNT - Propeller shaft main, universal joint half-round type
- g. Prop Shaft Interaxl Univ Joint - Prop shaft interaxle, univ joint half-round type
- h. Transmission Torque Converter - Furnish TC521 for use w/Allison (HD,RDS) transmission
- i. Transmission Protection - Without transmission protection
- j. Engine Smart Torque Feature - Engine smart torque feature, disabled

6. FRONT AXLE EQUIPMENT/TIRES

- a. Front Axle - FXL16.5 16500 LB-Mack 7500 KG
- b. Springs-Front - 16,500 LB Taperleaf 7500 KG
- c. Brake, Front - Cast iron brakedrum, front axle
- d. Front Axle Brakes - Bendix ES-165-06D 16.5 x 6 cast spider
- e. Front Axle Brake Dust Shield - Front brakes without dust shields
- f. Front Brake ADJ. Manufacture - Front brake adjustment, automatic haldex
- g. Front Brake Chamber MFG. - Front brake chamber manufacturer, MGM
- h. Brake lining Material Front - Brake lining material front, Eaton ES-1100/600
- i. Hub Material, Front - Basic material hub (steel/cast iron), front
- j. Shock Absorber Front, - With shock absorber, front
- k. Steering - M100P, plus right side assist cylinder
- l. Bump Stop, Front Suspension - Bump stop, front suspension, frame MTD
- m. Front Brake Chamber Size - Front brake chamber 30SQ inches (service)

7. REAR AXLE EQUIPMENT/TIRES

- a. Rear Axle-Tandem - S38"R" 38000LB-Mack 17200KG FAB HSNG
- b. Rear Axle Casing Width (CA) - Rear axle casing width, standard
- c. Lube Pump, Rear, Axle - Without lube pump, rear axle
- d. Carrier - Rear Axle - CRDP150/151
- e. Rear Axle Ratio - Ratio 3.79, rear axle
- f. Rear Suspension-Tandem - SS38- Mack multileaf
- g. Springs- Anti-Sway - W/O anti-sway
- h. Rear Susp. Beam Bushings - Urethane bushings
- i. Bogie Spread, Rear - Bogie Spread, 1270MM (50.0")
- j. Suspension Leveling Device (CA) Without susp. leveling device
- k. Rear Shock Absorber - Without shock absorber, rear
- l. Transverse Torque Rods, R Susp - Without rear suspension transverse torque rod
- m. Brakes-Rear - Bendix ES 165-07D 16.5x7 cast spider
- n. Brake Drums/Rotors-Rear - Cast iron brake drums
- o. Rear Brake ADJ Manufacture - Rear brake adjustment, automatic haldex
- p. Rear Brake Chamber Size - Rear brake chamber 30 / 30 SQ inches (service/emergency)
- q. Drive Axle Brake Dust Shield - Rear drive brakes without dustshields
- r. Brake Lining Material Drive - Brake lining material drive, Eaton EES-600

- s. HUB Material, Drive - Iron preset HUB, W/ integrated spindle nut
- t. HUB Oil Seal, Drive - Premium HUB oil seal, drive
- u. Power Divider Lockout - Without power divider
- v. Lubricants, Rear Axle - Petroleum oil in rear axle
- w. Rear Spring Insulator MAT'L- Rear spring insulator, urethane
- x. Spring Brake Chambers-Vendor - MGM Model TR-T; tamper-resistant brake chambers
- y. Traction Differential - W/O intr-whl/diffrentl optns
- a`. Spindle Nuts, Main Axle - Spindle nuts, main axle, ingergrated
- aa. ABS Sensor & Modulator - ABS 4 sensors & 4 modulators (front & rear axles)
- ab. Brake Chmbr Diaphragm Material - Brake chamber diaphragm, basic
- ac. Anti-Lock Brake System - Bendix KB (Eaton/Bosch)ABS
- ad. Axle alignment (CA) - Axle alignment, chassis report, send to customer

8. PUSHER/TAG EQUIPMENT/TIRES

- a. Option Center Support - W/O option center support

9. FRAME EQUIPMENT/FUEL TANKS

- a. Wheel Base - 197"
- b. AF (Overhang) 80"
- c. Frame Rails - Steel- 3/8" X 13 3/8" X 3 1/4" (class 8)
- d. Frame Inner Liner - Without liner
- e. Front Frame Ext. (Bolted On) - Without front frame extension, bolted on
- f. Crossmembers - STL-1/2"Pl bolted BOC & intrmdt 1/8" BELO rail, GR5 BB, 1st xmbr BOC RR 38. 17" from a line
- g. Frame Rail Free Space - Without frame rail clearance
- h. Rear Crossmember Options - Rear crossmember, straight frame end (Basic)
- i. Mudflap, Front Axle - Mudflap, front axle, basic (no anti-spray) short
- j. Front Bumper - Bumper, steel painted
- k. Guard, Under Engine BAYT - Without guard
- l. AUX Crossm. In Rear Overhang - 1 AUX. crossmember, back to back
- m. Crossmember, Bogie Type - Without crossmember, bogie
- n. Towing Device, Front - One pin towing device, front
- o. Towing Device, Rear - Without towing devices, rear
- p. Fuel Hoses, Liquid - Fuel hoses, high pressure
- q. Fuel Tank Position, Liquid - Fuel tank position basic

10. AIR/BRAKE

- a. Air Dryer Manufacturer - Wabco Air Drer, 1800P W/O coolescng ooil filter
- b. Airtank Drain Valve - Automatic drain valve, heated
- c. Airtank Material - Steel airtank
- d. Body Builder, Air Prep Kit - Without body builder air prepkit
- e. Air Dryer Position (CA) - Air dryer position standard
- f. Auxiliary Brake Control- Auxiliary (work) brake hand control
- g. Parking Brake Valve - Parking brake valve, 1 yellow knob, all parking
- h. Chassis Packaging (CA) - Without customer specified chassis packaging

11. ELECTRICAL

- a. Parking Brake Lighting - Without parking brake lighting
- b. Back-up Alarm - Backup alarm 87/112 DB, preco (ADJ to Ambient) sound
- c. Aux, Power Outlet Interior - Aux power outlet, 12V doghouse
- d. Circuit Protection (CA) - All circuits fuse/breaker protected
- e. Headlight Lamp Type - Headlamp bulb type, halogen
- f. HeadLamp Protection - Without headlamp protection
- g. Tail Lamps - Without tail lamps
- h. Warning Lights Body - Without warning light body
- i. Front & Side Indicator LMP TYP - Side indicator lamp type, LED
- j. Daytime Running Lights - Day running light, when eng running

12. TRAILER CONNECTIONS

- a. EXT.Indicator LMP, Main Switch - Exterior indicator lamp, main switch, basic

13. PTO/SPECIALTY EQUIPMENT

- a. Additional Electrical Schematic - Without additional electrical schematic
- b. Hydraulic Pump - W/O hydraulic pump
- c. Prop Shaft, Main To AUX Transm (CA) - Without prop shaft from main to aux transmission
- d. Certified Weight - Customer guaranteed weight, must be certified weight
- e. Rust Protection, Additional, (CA) - Without transp, rust protection
- f. Transport Adaptation - Uniform load no adaptation
- g. PTO Engine Mounted, Rear - Without PTO engine rear
- h. Crankshaft Adapter - W/O front end PTO drive
 - i. Body Builder PREP Pass Through - Without body builder prep.
 - j. Body Builder Module - EL Prop kit, refuse (no pass thru, 9 & 29 Pin BOC), CTRL LINK2
- k. Unique Decals machine Directiv (CA) - Without decals
- l. PTO Transm. Mounted - Without PTO transm. Mounted

14. CAB (A THRU G)

- a. Air Restriction Indicator - Mechanical, graduated, on filter
- b. Antenna, Radio - Antenna, radio, cab cowl, MTD, LH, short rubber
- c. Audio Shutoff - Without automatic audio shutoff
- d. Blind Spot Vision SYS. Rear - Without prep kit for camera
- e. CAB- - L.H. Drive with R.H. operating position, extended CAB version
- f. CAB Auxiliary Fan (CA) - without CAB auxiliary fan
- g. CAB Corner Protection, Front - Without front CAB corner protection
- h. CAB Door Options - LR LH front hinged door W/PWR window; RH rear fold-up
- i. CAB A/C Unit - Manual controlled climate control air condition
- j. CAB Heater Unit - Standard heater unit
- k. CAB Instep Version - CAB step version basic
 - l. CAP Peep Window - W/O peep window/ vent
- m. CAB Tilt Pump - Manual tilt pump
- n. Cable Kit Xlamps Front/Roof - Without spotlamps preparation kit
- o. Electrical Dash Outlet (CA) - without electrical outlet
- p. Emblems Option - Emblems option, complete
- q. Fire Extinguisher (CA) W/O fire extinguisher option
- r. Front Grille - Black
- s. Fuel Level Sender Unit, Liquid - Without liquid fuel level sender unit
- t. Gauge-Transmission Oil Temp - Transmission oil temp, gauge with high temp.
- u. Gauges-Unit Of Measure - U.S. Units (Predominant)
- v. Gearshift Inhibitor - Without gear shift inhibitor
- w. Number Of Auxiliary Gauges - Without auxiliary gauges
- x. Radio/Radio Accommodation - Premium stereo, AM/FM, cd-player, mp3, weather band, bluetooth

15. CAB (H THRU R)

- a. Horn-Air - Black twin trumpet, under cab mounted,with dual lanyard control
- b. Hood, Insulation, Climate (CA) Without engine compartment insulation
- c. Horn, Electrical - 1 single electric horn single tone
- d. Keyed Alike Chassis - All chassis keyed at random-2 keys
- e. Mirrors-Convex Type CAB Doors - Black square heated convex mirror - (except on bi-fold doors)
- f. Mirrors-Exterior - LH & RH electric heated & operated, w/o memory
- g. Mirrors-proximity - Without proximity mirror
- h. Overhead Switch Panel - Without overhead switch panel
- i. Personalized Name Plate - Without personalized name plage
- j. Rear Wall Storage Compartment - Without rear wall storage compartment
- k. Roof Hatch or Cooler - Without roof hatch
- l. Roof Market Light - Led type roof marker

16. CAB (S THRU Z)

- a. Seat-Driver's - Air-Sears seating C-2 MID back fabriform cushions
- b. Seat- Passenger's - Sears seating fold up passenger seat
- c. Seat Belt(s) - Lap & shoulder for driver seat and lap belt for fold-up seat -bright orange: OR#96-04-07
- d. Seat Covering - Driver- fabriform cloth, black rider- cloth, black
- e. Steering Wheel - Diameter 450mm steering wheel, rubber grip V1

- f. Steering Wheel Adjustment - Adjustable STG WHL, LH 2 motion, RH fixed
- g. Sunvisor Interior, Side - Without interior sunvisor side
- h. Time Counter (CA) Without time counter
- i. Turn Signals - Self cancelling turn signal
- j. Washer Reservoir - Washer reservoir basic position
- k. Windshield Protector - Windshield protector

17. WHEELS & TIRES

- a. Tires Brand/Type-Front - 315/80R22.5 L Bridgestone M860A (total for qty=2)
- b. Tire Speed Limit - Tire speed limit basic
- c. Wheels-Front - 22.5 X 9.25 Alcoa Alum Disc ultra one 10-HP; 11.25" BC. 5.96" Inset(total for qty = 2)
- d. Wheel Finishing, Front - Wheel finishing front, machine buff
- e. Front Axle tire & Wheel Quantity - Two front tires & wheels
- f. Tires Brand/Type-Rear - 11R22.5 H continental HSR2 (total for qty = 8)
- g. Wheels-Rear - 22.5 X 8.25 LVL one Alcoa Alu disc unimnt 10 (10 Hole HUB Pilot)(total for qty = 8)
- h. Rear Wheel Rim Clamp - Without rear wheel rim clamp
- i. Rear Disk Wheel:Polish - Alcoa all wheels finish, machined clean buff
- j. Rear Axle Tire & Wheel Quantity - Eight rear axle tires & wheels
- k. Wheel Nut & Finisher, Front - Wheel nut & finish basic, front
- l. Wheel Nut Finish, rear, (CA) - Wheel nut basic finish, rear
- m. Tire Inflation Valve - Tire inflation valve, standard
- n. Spare Wheel - Without spare wheel

18. PAINT

- a. Paint/Vinyl Stripping - CAB Exterior - Single color
- b. Paint Color - Area A - Mack white 08282PP: P9188
- c. Paint type - Solid paint
- d. Paint: Color-Area B - W/O area B paint color
- e. Paint: Color-Area C - W/O area C paint color
- f. Paint-CAB Paint System - Poly through coat w/o clear coat
- g. Paint-Chassis Runner Gear - Mack black: P3036
- h. Paint: Bumper - Paint bumper same color as Chassis running gear
- i. Paint: Fuel Tank - W/O optional fuel tank paint
- j. Front Wheel Paint - Without (unpainted)
- k. Drive Wheel Paint - Without (unpainted)
- l. Paint: Disc Wheels-Front - Without paint
- m. Paint: Disc Wheels-Rear - Without paint
- n. Paint:Spoke Wheels-Front - W/O optional spoke wheel paint
- o. Paint:Spoke Wheels-Rear - W/O optional spoke wheel paint
- p. Paint-Hubs & Drums-Front - Same as Chassis running gear
- q. Paint: HUBS & Drums-Rear - Same as Chassis running gear

19. APPLICATION PACKAGES

- a. Pilot Inspection - No Pilot Requested



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2017 Mack LR633

The Mack LR633 purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and NCSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by specification by zone.

ZONE:	★Appalachia	★Dogwood	★Cardinal	★Longleaf Pine
BASE PRICE:	\$128,192.80	\$128,192.80	\$128,192.80	\$128,192.80

While the North Carolina Sheriffs' Association has attempted to identify and include those equipment items most often requested by participating agencies for full size vehicles, we realize equipment needs and preferences are going to vary from agency to agency. In an effort to incorporate flexibility into our program, we have created specific add/delete options which allow the purchaser to tailor the vehicle to their particular wants or needs.

The following equipment delete and add options and their related cost are provided here to assist you in approximating the total cost of the type vehicle(s) you wish to order through this program. Simply deduct the cost of any of the following equipment items you wish deleted from the base unit cost and/or add the cost of any equipment items you wish added to the base unit cost to determine the approximate cost of the type vehicle(s) you wish to order.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate dealer in your zone when preparing your order. Additional add/delete options other than those listed here may be available through the dealers, however, those listed here must be honored by the dealers in your zone at the stated prices.

VEHICLE:	LR633			
DEALER:	Transource, Inc.	Transource, Inc.	Transource, Inc.	Transource, Inc.
ZONE:	★ Appalachia	★ Dogwood	★ Cardinal	★ Longleaf Pine
BASE PRICE:	\$128,192.80	\$128,192.80	\$128,192.80	\$128,192.80

Order Code	Add Options	All Zones
	MP7-365HP	NA
	MP8-455HP	NA
	Mack T318-18 Speed	NA
	Allison 4500 5spd	NA
	50 gallon single tank	NA
	Dual 50 gallon tanks	NA
	Spicer-18 MXL "Xtended Lube	NA
	MACK FXL 14,600 LB	NA
	14,600 LB Leaf Spring	NA
	Meritor-40,000 LB	NC
	Mack- 40,000 lb multileaf	NC
	198" WB	NC
271205 ¹	205" WB	\$177.00 ¹
241OL1 ¹	Mack Air Disc Brakes	\$643.50 ¹
253AB3 ¹	Mack Air Disc Brakes	\$2,394.00 ¹