



NORTH CAROLINA SHERIFFS' ASSOCIATION

Name of Dealership	Type of Vehicle	Zone	Base Unit Price
<u>MACK - LR613 – (6X4 – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) (Specification #36)</u>			
Transource, Inc.	2017 Mack LR613	★Appalachia	\$133,390.94
Transource, Inc.	2017 Mack LR613	★Dogwood	\$133,390.94
Transource, Inc.	2017 Mack LR613	★Cardinal	\$133,390.94
Transource, Inc.	2017 Mack LR613	★Longleaf Pine	\$133,390.94



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MACK - LR613 – (6X4 – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) SPECIFICATION #36

2017 Mack LR613

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. Price Book Level - 2008-10-07
- b. Chassis (Base Model) - LR613 R (11L) - 6x4 DayCab
- c. Customer Fleet Size - Regional fleet 25 or more vehicles in own fleet of any vehicle brand
- d. Type Of Services - Municipal
- e. Initial Registration Location - Any state EXC. Calif or Hawaii (US14)
- f. Language-Pubs/Decal/Signs - English
- g. Vehicle Application Class - Class B Highway-Inner City
- h. Vehicle Use & Body/Trailer Type - Refuse automatic side loader truck
- i. Terrain Grade - Normal Highway, Starting Grades
- j. Loading Surface - Concrete loading and /or unloading surface
- k. Vehicle Vocation - Refuse / landfill operation

2. ENGINE/TRANSMISSIONS

- a. Engine Package - MP7-325M @ 1500-1900 RPM (Peak) 2100 RPM (Governed) us"14, (1200LB-FT)
- b. Transmission - 4500 RDS 6 SP-Allison rugged duty series GEN 5 W/prognostics
- c. Transmission Electronics - Refuse W/auto-neutral, 2nd gear limit secondary mode

3. EXHAUST/EMISSIONS

- a. DPF Diesel Particulate Filter - Cleartech VV DPF vertical LH side BOC W/SCR vert RH side BOC
- 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. DEF Tank - 25L / 22" dia semi tank right side MTD
- e. Exhaust Aftertreatment System - Selective catalyst reduction + diesel part. Filter ceramic
- f. Regenerate Control Switch, DPF - Without DPF regeneration control switch
- g. Emission on Board Diag Control - Emission OBD, Display only, USA2016

4. ENGINE EQUIPMENT

- a. Air Cleaner - 13" Single element factory OPT
- b. Air Compressor - Merit/Wabco 636 (37.4 CFM) REQS B9200003 when used in blk unload APP
- c. Alternator - 12V130A Delco 24SI (130 AMP)
- d. Batteries - 3-12V Mack M/F 31 650 CCA threaded Stud type
- e. Cooling Performance - Extra narrow radiator with length 1 (60 DM2), 41 DEG C ATB cooling capacity W/O AUX RAD
- f. Coolant Protection - To -34 DEG F
- g. Radiator Blind - Without radiator blind
- h. Coolant Filter / Conditioner - Without filter/conditioner
- i. Engine Block Heater Receptacle (CA) - Without engine block heater receptacle

- j. Fan Drive - Horton fan. BEHR fan & electric modulating viscous fan drive
- k. Engine Brake - W/O ENG BRK
 - l. Fuel-Water Separator - Mack integral includes manual drain
- m. Fuel Equipment Water Heater (CA) - Without fuel heater equipment
- 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. Starter - 12V standard starter delco 39MTHD
- t. Oil Pan - Oil pan steel
- u. Tether DEV PKG, CAPS & Covers - Tether PK2: Batt box cover
- v. Engine Block Heater - Without engine block heater
- w. Engine Oil Pan Heater - Without engine oil pan heater
- x. Engine Starting Pads - Without starting pad
- y. Battery Shock Pads - Without battery pads
- a`. Smart Idle Elevated Idle RPM Time - Increase 10 minutes maximum time

5. CLUTCH/TRANS EQUIPMENT

- a. Drive-Main - Meritor 18 MXL "xtended lube"
- b. Driveline-Interaxle - Meritor 17 MXL "xtended lube"
- c. Lubricants, Transmission - Transynd synthetic auto trans fluid
- d. Transmission Oil Cooler - Furnish for Allison trans. With direct mount cooler
- 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. Retarder - Without retarder
- i. Transmission Torque Converter - Furnish TC541 for use w/Allison (HD)series world trans
- j. Transmission Protection - Without transmission protection
- k. 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. Spring-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 with 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 - S462 46000LB-Mack 20900KG casting 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 - CRDP 150/151
- e. Rear Axle Ratio - Ratio 4.80, rear axle
- f. Rear Suspension-Tandem - SS462- Mack multileaf
- g. Springs- Anti-Sway - W/O anti-sway
- h. Rear Susp. Beam Busings - Bronze bushings
- i. Bogie Spread, Rear - Bogie Spread, 1270MM (50.0")
- j. Suspension Leveling Devise (CA) Without susp. leveling device
- k. Rear Shock Absorber - Without shock absorber, rear
- l. Transverse Torque rods, R Susp - Rear susp transverse torque rods, rear drive axle
- m. Brakes-Rear - Bendix ES 165-07D 16.5x8.0 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 - Basic material HUBS (steel /cast iron), drive
- t. HUB Oil Seal, Drive - Stemco voyager hub oil seal
- u. Power Divider Lockout - power divider lockout, w/buzzer & light
- 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 - Basic spindle nuts, main axle
- 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 (Easton/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) 55"
- 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. Fuel Tank Polish Option - Without fuel tank polish option
- i. Rear Crossmember Options - Rear crossmember, straight frame end (Basic)
- j. Mudflap, Front Axle - Mudflap, front axle, basic (no anti-spray) short
- k. Front Bumper - Bumper, steel painted
- l. Guard, Under Engine BAYT - Without guard
- m. AUX Crossm. In Rear Overhang - 1 AUX. crossmember, back to back
- n. Crossmember, Bogie Type - Without crossmember, bogie
- o. Towing Device, Front - One pin towing device, front
- p. Towing Device, Rear - Two hooks frame mounted version 1
- q. Fuel Tank-LH - 50 gal steel (190 liters) 26in/24in rect
- r. Fuel Tank-RH - Omit RH fuel tank
- s. Fuel Hoses, Liquid - Fuel hoses, fire resistant
- t. Fuel Tank Position Liquid - Fuel tank position, lowered left side
- u. Filler Neck screens - Filler neck screen L.H. fuel tank(s)includes sump

10. AIR/BRAKE

- a. Air Dryer Manufacturer - Wabco Air Drer, 1800P W/O T cutt off valve, W coolsc oil filter
- b. Airtank Drain Valve - Automatic drain valve, heated
- c. Airtank Material - Steel airtank
- d. Body Builder, Air Prep Kit - Body builder, air prepkit, 7 air lines, CAB to RS frame
- e. Air Dryer Position (CA) - Air dryer position standard
- f. Auxiliary Brake Control- Without auxiliary brake 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 - Without bake-up alarm
- 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 - Furnish ENG pump MTG provisions-include wiring, switches, and indicators as REQ'D
- 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 - Front end PTO-1350 SER flange
- 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 cow, MTD, LH, short rubber
- c. Audio Shutoff - Without automatic audio shutoff
- d. Blind Spot Vision SYS. Rear - Without prep kit for camera
- e. CAB - R.H. & R.H. sit down driving position, extended CAB version
- f. CAB Auxiliary Fan (CA) - without CAB auxiliar fan
- g. CAB Corner Protection, Front - Without front CAB corner protection
- h. CAB Door Options - LR LH & RH front hinged doors W/Power window both sides
- 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 - Air assisted CAB 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 - Basic fuel level sender mounted on L.H. tank
- t. Gauge-Exhaust Pyrometer - Without exhaust pyrometer gauge
- u. Gauge-Manifold Pressure - Without manifold pressure gauge
- v. Gauge-Transmission Oil Temp - Transmission oil temp, gauge with high temp.
- w. Gauges-Unit Of Measure - U.S. Units (Predominant)
- x. Gearshift Inhibitor - Without gear shift inhibitor
- y. Number Of Auxiliary Gauges - Without auxiliary gauges
- a'. Radio/Radio Accommodation - Premium stereo, AM/FM, cd-player, mp3, weather band, bluetooth

15. CAB (H THRU R)

- a. Horn-Air - Without air horn
- b. Horn, 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 - Rectangular convex above LH + RH doors
- h. Overhead Switch Panel - Without overhead switch panel

- i. Personalized Name Plate - Without personalized name plate
- j. Rear Wall Storage Compartment - Without rear wall storage compartment
- k. Roof Hatch or Cooler - Without roof hatch
- l. Roof Marker Light - Led type roof marker

16. CAB (S THRU Z)

- a. Seat-Driver's - Air-Bostrom Talladega 910 mid back
- b. Seat- Passenger's - Omit rider's seat
- c. Seat Belt(s) - Lap & shoulder for (2)driver seats and orange in color
- d. Seat Covering - Driver- All cloth, black, driver seat only
- 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 - Non cancelling turn signal
- j. Washer Reservoir - Washer reservoir basic position
- k. Windshield Protector - Without Windsheild 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 9.00 steel disc 11.25" BC Hayes Lemmerz #10041; HP10 5 Hand Hole, 5.25" Inset(total for qty = 2)
- d. Wheel Finishing, Front - Without wheel finishing front
- e. Front Axle tire & Wheel Quantity - Two front tires & wheels
- f. Tires Brand/Type-Rear - 315/80R22.5 L Bridgestone M860A (total for qty = 8)
- g. Wheels-Rear - 22.5 X 9.0 STL disc 11.25 B.C. accuride HUB piloted 10-Hole #29300 7" offset 5 Hand Hole HD (total for qty = 8)
- h. Rear Wheel Rim Clamp - Without rear wheel rim clamp
- i. Rear Disk Wheel:Polish - W/O RR disc-bright finish
- 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 - Paint fuel tank same color as chassis running gear
- j. Front Wheel Paint - Front wheel powder coat, white
- k. Drive Wheel Paint - Drive wheel powder coat, white
- 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. Customer Adaptation CTR (CA) - Product adaptation, additional installation required
- b. Pilot Inspection - No Pilot Requested



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MACK - LR613 – (6X4 – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) SPECIFICATION #36

2017 Mack LR613

The Mack LR613 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:	\$133,390.94	\$133,390.94	\$133,390.94	\$133,390.94

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:	LR613			
DEALER:	Transource, Inc.	Transource, Inc.	Transource, Inc.	Transource, Inc.
ZONE:	★ Appalachia	★ Dogwood	★ Cardinal	★ Longleaf Pine
BASE PRICE:	\$133,390.94	\$133,390.94	\$133,390.94	\$133,390.94

Order Code	Add Options	All Zones
	MP7-365HP	NA
	MP8-455HP	NA
	Mack T318-18 Speed	NA
136AR6 ¹	Allison 4500 5spd	\$160.00 ¹
	50 gallon single tank	Incl.
290AH8 ¹	Dual 50 gallon tanks	\$565.00 ¹
	Spicer-18 MXL "Xtended Lube	NA
	MACK FXL 14,600 LB	NA
	14,600 LB Leaf Spring	NA
	Meritor-40,000 LB	NA
	Mack- 40,000 lb multileaf	NA
	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