



NORTH CAROLINA SHERIFFS' ASSOCIATION

Name of Dealership	Type of Vehicle	Zone	Base Unit Price
<u>MACK - MRU613 – (6X4 – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) (Specification #38)</u>			
Transource, Inc.	2017 Mack MRU613	★Appalachia	\$106,527.99
Transource, Inc.	2017 Mack MRU613	★Dogwood	\$106,527.99
Transource, Inc.	2017 Mack MRU613	★Cardinal	\$106,527.99
Transource, Inc.	2017 Mack MRU613	★Longleaf Pine	\$106,527.99



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MACK - MRU613 – (6X4 – FRONT LOADER, REAR LOADER, SIDE LOADER, AUTOMATED SIDE LOADER, ROLL-OFF, KNUCKLEBOOM, HOOK LIFT) SPECIFICATION #38

2017 Mack MRU613

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) - MRU613 R (11L) - 6x4 DayCab
- c. Customer Fleet Size - Dealer Fleet with less than 25 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 front 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 Mack 325 @ 1500-1900 RPM (Peak) 2100 RPM (Governed) US'14, (1200 LB-FT)
- b. Transmission - T310 10 SP-Mack
- c. Transmission Electronics - Without Transmissions Electronics
- d. Engine Governor Type - Engine governor type min-max

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 - DPF regeneration control switch, no inhibit (only initiate)
- 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 - Meritor/Wabco 636 (37.4 CFM) reqs B920003 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 length1 (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 - BEHR fan & electronic 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. Battery Disconnect Switch - W/O battery disconnect switch
- q. Emergency Start Studs - Without emergency start studs
- 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 Aid - Without starting aid
- y. Engine Oil Drain Kit - Without engine oil drain kit
- aa. Battery Shock Pads - Without battery shock pads
- aa. Smart Idle Elevated Idle RPM Time - Increase 10 minutes maximum time

5. CLUTCH/TRANS EQUIPMENT

- a. Clutch - Eaton advantage EZ-Pedal 9 spring, 2plate 15.5" ceramic 6 paddles, manual adjust
- b. Driveline-Main - Meritor 18 MXL "xtended lube"
- c. Driveline-Interaxle - Meritor 17 MXL "xtended lube"
- d. Lubricants, Transmission - Petroleum oil in transmission
- e. Clutch Pedal Pad - Clutch pedal pad, rubber
- f. Transmission Oil - W/O oil cooler
- g. Transmission Oil Cooler - Remote MTD oil cooler furnish for Allison transmission
- h. Prop Shaft Bearing Guard - Without prop shaft bearing guard
- i. Propeller Shaft Main, Unvsl JNT - Propeller shaft main, universal joint half-round type
- j. Prop Shaft Interaxl Univ Joint - Prop shaft interaxle, univ joint half-round type
- k. Clutch Brake - Clutch brake, one piece
- l. Retarder - Without retarder
- m. Transmission Torque Converter - W/O transmission torque coverter
- n. Transmission Protection - Without transmission protection
- o. Engine Smart Torque Feature - Engine smart torque feature, disabled

6. FRONT AXLE EQUIPMENT/TIRES

- a. Front Axle - FXL12 12000 LB-Mack 5400 KG (N/A with lift axles)
- b. Spring-Front - 12,000 LB multileaf 5400 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 EES-600
- i. Hub Material. Front - Basic material hub (steel/cast iron), front
- j. Shock Absorber, Front - Without shock absorber, front
- k. Steering - M100P SHEP-PWR (integral)
- l. Bump Stop, Front Suspension - Without bump stop, front suspension
- m. Front Brake Chamber Size - Front brake chamber 20SQ 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 Busings - 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 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, rubber
- 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 - 210"
- b. AF (Overhang) 96"
- c. Frame Rails - Steel-5/16" X 13 1/4" X 3 1/4"
- 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. Frame Tank Polish Option - Without fuel tank polish option
- i. Rear Crossmember Options - Without rear crossmember
- j. Mudflap, Front Axle - Mudflap, front axle, basic (no anti-spray) short
- k. Front Bumper - Bumper, steel painted extended, including central tow-pin
- l. Guard, Under Engine BAYT - Without guard
- m. AUX Crossm. In Rear Overhang - Without auxillary crossmember in rear overhang
- n. Crossmember, Bogie Type - Without crossmember, bogie
- o. Towing Device, Front - One pin towing device, front
- p. Towing Device, Rear - Without towing devices, rear
- q. Fuel Tank - LH - Omit LH fuel tank
- r. Fuel Tank - RH - 70 Gal steel (265 liters) 26"/24" RECT
- s. Fuel Hoses, Liquid - Fuel hoses, wire braided
- t. Fuel Tank Position Liquid - Fuel tank position, lowered right side
- u. Filler Neck Screens - Filler neck screen R. H. fuel tank(s) includes sump

10. AIR/BRAKE

- a. Air Dryer Manufacturer - Wabco Air Dr, 1800P W/O T cut off valve, W coalese oil filter
- b. Airtank Drain Valve - Petcock drain valve, on brake sys tanks
- 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. Parking Brake Valve - Parking brake valve, 1 yellow knob, all parking
- g. Chassis Packaging (CA) - Without customer specified chassis packaging
- h. Auxiliary Airtank - Without aux, airtank

11. ELECTRICAL

- a. Parking Brake Lighting - Without parking brake lighting
- b. Back-up Alarm - Without back-up alarm
- c. Aux. Power Outlet, Interior - Aux power outlet, 12V doghouse
- d. Head Light Lamp Type - Headlamp bulb type, halogen
- e. Tail Lamps - Tail lamp, multipurpose
- f. Warning Lights Body - Without warning light body
- g. Front & Side Indicator LMP TYP - Side indicator lamp type basic
- h. Daytime Running Lights - DRL when parking brake off

12. TRAILER CONNECTIONS

- a. Ext. Indicator Lmp, Main Swtch - Without exterior indicator lamp, main switch
- b. Trailer Connection Position (CA) - Without trailer connection position
- c. Trailer Brake Valve - Without trailer brake valve

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. Power Take Off Control - Without power rake off control
- i. Crankshaft Adapter - W/O front end PTO drive
- j. Body Builder Prep Pass Through - Without body builder prep.
- k. Body Builder Module - EL Prep kit, refuse (no pass thru, 9 & 29 Pin BOC), CTRL LINK2
 - l. Unique Decals machine Directiv (CA) - Without decals
- m. 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. Antenna, Radio Control (CA) - Without antenna, radio control
- d. Audio Shutoff - Without automatic audio shutoff
- e. Blind Spot Vision SYS. Rear - Without prop kit for camera
- f. CAB - CA351
- g. CAB Auxiliary Fan (CA) - without CAB auxiliary fan
- h. CBA Door Options - MR LH & RH sliding windows
- i. CAB Grab Handle - CAB grab handles, outer and inner, basic
- j. CAB A/C Unit - Manual controlled climate control air condition
- k. CAB Heater Unit - Without heater unit
- l. CAB Instep Version - CAB step version basic
- m. CAB Tilt Pump - Manual tilt pump
- n. CAB Step panel Protection - Without CAB step panel protection
- o. Center Control Console - Center console, basic
- p. Emblems Option - Emblems option, complete
- q. Fire Extinguisher (CA) W/O fire extinguisher option
- r. Forward Overhead Storage - Forward overhead STG, 2 radio shelf, driver side
- s. Front Grille - Painted grille (painted frame) silver
- t. Fuel Level Sender Unit, Liquid - Basic fuel level sender mounted on R.H tank
- u. Gauge-Exhaust Pyrometer - Without exhaust pyrometer gauge
- v. Gauge - Manifold pressure - Without manifold pressure gauge
- w. Gauge-Transmission Oil Temp - Transmission oil temp, gauge with high temp.
- x. Gauges-Unit Of Measure - U.S. Units (Predominant)
- y. Gearshift Inhibitor - Without gear shift inhibitor
- a'. Number Of Auxiliary Gauges - Without auxiliary gauges
- aa. Odometer - No hubodometer provided
- ab. Radio/Radio Accommodation - Premium stereo, AM/FM, cd-player, mp3, weather band

15. CAB (H THRU R)

- a. Horn-Air - Black twin trumpet, under cab mounted
- b. Horn, Electrical - 1 single electric horn single tone
- c. Ignition Type - Ignition type, key
- d. Key Alike Chassis - All chassis keyed at random-2 keys
- e. Mirrors-Convex Type CAB Doors - W/O convex mirror
- f. Mirrors-Exterior - Bulldog-BR Fin
- g. Mirrors-proximity - Without proximity mirror
- h. Personalized Name Plate - Without personalized name plate
- i. Power Leads - Power lead, plug type, headline MTD
- j. Roof Market Light - Standard type

16. CAB (S THRU Z)

- a. Seat-Driver's - Air-Bostrom Talladega 905 series (mid back)
- b. Seat- Passenger's - Fixed-Mack (mid-back)
- c. Seat Belt(s) - Lap & shoulder (both seats) (not available with extended rider seat)
- d. Seat Covering - All cloth, black, driver & rider seats
- e. Steering Wheel - Diameter 450mm steering wheel, rubber grip V1
- f. Time Counter (CA) Without time counter
- g. Windshield Protector - Without windshield protector
- h. Windscreen WND Deflector - Without windscreen wind deflector

17. WHEELS & TIRES

- a. Tires Brand/Type-Front - 11R22.5 H Bridgestone R283A Ecopia (total for QTY=2)
- b. Tire Speed Limit - Tire speed limit basic
- c. Wheels-Front - 22.5 X 8.25 steel disc 11.25BC Hayes Lemmerz #90260;HP10 2 hand hole, hvy dty (6.12"INST) (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 - 11R22.5 G Bridgestone R268 Ecopia (total for qty = 8)
- g. Wheels-Rear - 22.5 X 8.25 STL disc unimnt 10 Hayes Lemmerz #90541 2 hand hole WGT reduced (total for qty = 8)
- h. Rear Wheel Rim Clamp - Without rear wheel rim clamp
- i. Rear Disk Wheel:Polish - W/O RR disc whl-bright finish
- j. Rear Axle tire & Wheel Quantity - Eight rear axle tires & wheels
- k. Hub/Wheel Isolator Drive - Without hub/wheel isolator drive
- l. Wheel Nut & Finisher, Front - Wheel nut & finish basic, front
- m. Wheel Nut Finish, rear, (CA) - Wheel nut basic finish, rear
- n. Tire Inflation Valve - Tire inflation valve, standard
- o. 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-CAB Interior - W/O special CAB interior paint (paint exterior color)
- h. Paint-Chassis Running Gear - Mack black: P3036
- i. Paint: Bumper - Paint bumper same color as Chassis running gear
- j. Paint: Fuel Tank -Paint fuel tank same color as Chassis running gear
- k. Front Wheel Paint - Front wheel powder coat, white
- l. Drive Wheel Paint - Drive wheel powder coat, white
- m. Paint: Disc Wheels-Front - Without paint
- n. Paint: Disc Wheels-Rear - Without paint
- o. Paint:Demount.Rims-Front - Without paint
- p. Paint:Demount. Rims-Rear - Without paint
- q. Paint:Spoke Wheels-Front - W/O optional spoke wheel paint
- r. Paint:Spoke Wheels-rear - W/O optional spoke wheel paint
- s. Paint-Hubs & Drums-Front - Same as Chassis running gear
- t. Paint: HUBS & Drums-Rear - Same as Chassis running gear

19. APPLICATION PACKAGES

a. Pilot Inspection - No Pilot Requested



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2017 Mack MRU613

The Mack MRU613 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:	\$106,527.99	\$106,527.99	\$106,527.99	\$106,527.99

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:	MRU613			
DEALER:	Transource, Inc.	Transource, Inc.	Transource, Inc.	Transource, Inc.
ZONE:	★ Appalachia	★ Dogwood	★ Cardinal	★ Longleaf Pine
BASE PRICE:	\$106,527.99	\$106,527.99	\$106,527.99	\$106,527.99

Order Code	Add Options	All Zones
	MP7-365HP	NA
	MP8-455HP	NA
136AB7 ¹	Mack T318-18 Speed	\$1,986.00 ¹
136AR6 ¹	Allison 4500 5spd	\$160.00 ¹
290AH8 ¹	50 gallon single tank	\$77.50 ¹
	Dual 50 gallon tanks	NA
	Spicer-18 MXL "Xtended Lube	NC
240AA7 ¹	MACK FXL 14,6000 LB	\$136.00 ¹
	14,600 LB Leaf Spring	NC
	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