**STATE OF LOUISIANA**

**DIXON CORRECTIONAL INSTITUTE**

**TECHNICAL SPECIFICATIONS FOR**

**TRUCK, CAB & CHASSIS, 25,550# GVWR, WITH ROLL-BACK RECOVERY**

These are the minimum specifications for the vehicle described. Where a brand/model is referenced, an equal will be considered.

**GENERAL**

This specification sets forth the minimum requirements for a 4X2 extended cab truck (25,550# GVWR) outfitted with a roll-back (recovery)

Equipment shall be new, and must meet all state and Federal safety and emission standards in effect at time of order.

**Cab & Chassis**

**GVWR**: 25,550 lbs.

**Axle configuration**: 4X2

**Application**: Roll-back recovery

**Dimensions:**

 Wheelbase: 236.00

 Cab to axle: 142.90

Axle to frame: 75.00

**Bumper:** All steel, contoured, chrome plated front bumper

**Cab:** Conventional, extended

Access, cab steel, driver and passenger sides, two steps per door

Air conditioner with Integral Heater and Defroster

Cab rear suspension Air suspension, for Mid Cab Height

Mirrors: (2) Aero pedestal, Power adjustable, Heated, Turn signals, Bright heads, Black arms, 6.5 inch x 14 inch flat glass, includes 6.5 inch x 6 inch convex mirrors, for 102” load width

Seats: Driver and passenger, air suspension, high back with integral headrest, vinyl, isolator, 1 chamber lumbar, 2 position front cushion adjustment (National 2000 or equal)

 Rear bench; full width, vinyl, with fixed mid back

 Arm rest, right, driver seat

Sunshade, Exterior aerodynamic, painted roof color, with integral clearance marker lights

Window, power two and power door locks, left and right doors, includes down feature

**Gauge package** including the following:

 Electronic speedometer

 Air application

 Air cleaner restriction (filter-minder) mounted in instrument panel

 Oil temperature

 Auto transmission temperature

 Instrument panel – flat

 IP cluster display on board diagnostics display of fault code in gauge cluster

 Indicator, low coolant level with audible alarm

**Engine and fuel**

 6.7L diesel, liquid cooled, 8 cylinder Cummins B6.7 260 or equal

 260HP @ 2400 RPM

 660 lb.-ft. torque @ 1600 RPM

 2600 RPM governed speed

 260 peak HP (max)

 Fuel tank: Two top draw, non-polished D-style, mounted under cab

 Fuel tank capacity: Left side – 40 gallon, Right side – 50 gallons

 DEF tank capacity: 7 gallons, frame mounted under cab

Fuel/water separator, 12 VDC electric heater, includes pre-heater, with primer pump, includes water-in-fuel sensor

Radiator aluminum, 2 row, down flow, front to back system, 640 square inch louvered, with 383 square inch charge air cooler, includes in-tank oil cooler

Fan drive: Viscous type, screw on

Air cleaner: single element, fire retardant media

Anti-freeze: Red, extended life coolant

Block heater: engine 120V/1000W

Engine Control, Remote Mounted: Includes wiring for Body Builder Installation of PTO Controls and Starter Lock out, with Ignition switch control

Oil pan: 15 quart capacity

Throttle: Hand control engine speed control for PTO; electronic, stationary, pre-set, two speed settings mounted on steering wheel

**Transmission**

Automatic, 6th generation controls, close ratio, 6-speed with double overdrive, with PTO provision, less retarder, includes park pawl, with 26,000 lb. GVW and GCW maximum, on/off highway neutral at stop omit (Allison 2200 RDS or equal)

Shift control parameters 1000 or 2000 series transmissions, performance programing

Transmission Oil Synthetic; 20 thru 28 pints, to be filled with manufacturer approved synthetic lubricants

Transmission shift control T-handle

**Brake system:**

 Air dual system for straight truck applications

Air brake anti-lock brake system, 4-channel (4 sensor/4 modulator) full vehicle wheel control system

 Manual push-pull pneumatic parking brake

Front brakes, air S-Cam type, cast spider, fabricated shoe, double anchor pin, 13,200 lb. capacity

 Front axle brake chamber – 20 square inch

Rear brakes, air S-cam type, cast spider, fabricated shoe, double anchor pin, 23,000 lb. capacity per axle

Rear axle brake chamber – 30/30 square inch spring brake

Slack adjusters – rear (Gunite) Automatic

Air compressor – 18.7 CFM

Air dryer with heater, includes safety valve

Drain valve with pull chain for air tank

Air Dryer location mounted inside engine compartment, right size

Air tank location (2) mounted inline under left rail, back of cab, parallel to rail

**Electrical system**:

 12 volt, standard equipment

 Alternator, brush type, 12 Volt, 160 amp capacity, pad mount, with remote sense

Battery box steel with plastic cover, 2-3 battery capacity mounted left side, 12” back of cab

 Battery system, maintenance-free, (3) 12-volt 1980CCA total, top threaded stud

Body builder wiring back of day cab, includes sealed connector for tail/amber turn/marker/backup/accessory power/ground and sealed connector for stop/turn

Circuit breakers – manual reset (main panel) SAE Type III with trip indicators, replaces all fuses

Indicator, Low coolant level with audible alarm

Integral clearance/marker lights

Power window and door locks, left and right doors

Climate control, air conditioner with integral heater and defroster

Headlights LED, with daytime running lights

Headlights on with wipers, headlights automatically come on when wipers are turned on

Horn: Air single trumpet, black, with lanyard pull One electric trumpet style

Jump start stud remote mounted

Radio: AM/FM radio with clock, Bluetooth, USB, input/auxiliary input

Speakers: Two 6.5 inch dual cone mounted in both doors

 Two 2.25 inch dual cone mounted in both b-pillars

Starting Motor: 12 volt, less thermal over-crank protection (Delco Remy 38MT Type 300) or equal

Auxiliary switch: Accessory control, for wiring in roof, with maximum of 20 amp load with switches in Instrumental Panel

**Steering:**

Power

Tilting steering column

**Front End:**

Front end tilting, fiberglass, with three piece construction, dual air intakes

 Bug screen mounted behind grille and bumper grille

 Fender extensions painted

 Mud flaps, front wheels two rubber, mounted on fender extension

**Body Integration:**

Remote power module mounted under cab or on battery box, up to 6 outputs and 6 inputs, maximum 20 amp per channel, maximum 80 amp total, includes one switch pack with latched switches.

**Wheels & Tires**

 Wheels, front; 22.5x8.25 rims, 10-stud, hub-piloted, flanged nut, with steel hubs

 Tires, front: Two 255/70R22.5 load range H

 Wheels, rear: 22.5x8.25 rims, 10-stud, hub-piloted, flanged nut, with steel hubs

 Tires, rear: Four 255/70R22.5 load range H

**Front axle:**

 8,000 lb. capacity (Dana Spicer D-800F or equal)

 I-Beam type

 Non-driving

**Rear axle:**

 19,000 lb. capacity Single reduction (Dana Spicer S140 or (equal)

 190 wheel ends

 4.88 gear ratio

**Front suspension**

 Spring parabolic taper leaf, shackle type

 8,000 lb. capacity

 Shock absorbers

**Rear suspension**

 20,000 lb. capacity (International IROS or equal)

 9.25 inch ride height

 Shock absorbers mounted outside the rails

 Suspension air control valve pressure release control in cab

**Exhaust system**

 Horizontal after treatment system, frame mounted under right rail back of cab,

 includes single short horizontal tail pipe

 Engine exhaust brake with variable vane turbo charger

**Paint:** White

**2025 International MV607 SBA 2WD or equal**

**ROLL-BACK RECOVERY**

**Bed specifications:**

Load rating: 12,000 lbs.

Minimum load angle: 10.9 degree @ 32” frame height

Platform length: minimum 22 feet

Platform thickness: 3/16” deck plate steel

Platform width: 102”

Platform extension: 120”

Controls: 5 section spool type

Winch rating: 12,000 lb. DP or equal

Cable diameter & length: 7/16 inches x 50 feet

Type: 6”X9” I.P.S.

Working limit: 3,500 lbs.

**Wheel Lift Specifications:**

Wheel lift rating: 4,000 lbs. extended

Wheel lift extension: 54 inches

Extended reach past deck: 67 inches

Carrier elevation cylinders shall be 3 inches diameter with 1 ½ inches diameter chrome polished rod. Stroke of elevation cylinder shall be 23 inches. Elevation cylinders shall be mounted inboard of the chassis frames rails. Elevation function shall use a dual counterbalance load-holding valve. Carrier extend cylinder shall 3 1/2 inch diameter with a 2 inch chrome polished rod. Stroke of the extend cylinder shall be 120 inches. All cylinder eyes shall have accessible Zerk style grease fittings.

Cab protector shall be full height and made for the specific truck chassis.

Cab protector shall be constructed from 5 inch x 2 inch x 1/8 inch tubing roll formed to shape of cab and reinforced with angled struts. Horizontal panel below the cab window shall be made of #12 gauge steel

**Standard features**:

 Front and rear safety chains

 Platform steel diamond plate

 Right and left side chain trays

 Front and rear tie down slots (7) each

 12,000 pound hydraulic winch DP or equal

Full length Nylatron slide pads

Bed Anti-Tilt feature

Back-up Alarm

Mud flaps – rear – Century or equal

Mud flaps – front – Low Century Gravity Century or equal

Two Power lift cylinders

One extension cylinder

Positive lock down system

Left and right hand illuminated controls station

Back-up lights

 LED Federal standard 108 lighting

 LED Tail lights

 Dual Winch clutch release driver side and passenger side

 Full hydraulic wheel light with Dock Stabilizer

 L-Arm system

 Hydraulic pump minimum 17GPM – Muncie or equal

 Winch roller guide

 Winch cable tensioner

 All components for complete installation

 Pre-assembled and factory tested

 Full height steel headboard

 Steels bed painted black

 Adjustable extension stands (except right approach)

 102 inch wide body

**Accessory Equipment**

2 each 60 inch steel tool boxes with stainless steel doors

 2 sets Work Lights

 1 each set work lights mounted next to winch minimum 4 inches

 1 each set work lights mounted at rear of body for wheel lift area minimum 2 inches

 Planetary 12,000 lb. winch DP or equal

 5/16 inch grade 70 V-chain assembly 15 inch J-hooks

 5/16 inch grade 70 Cluster hook v-chain assembly

 Double leg over tire (4 point tie down)

 Idle up kit

 Hot Shift PTO (power take off) – Muncie or equal

 Factory installation

 Tie down chain assembly two each 10 foot grade 70 J-Hook Chains with cluster

 Trailer ball adapter

 Switch panel

 Underbody Tie Down Bar

 Three each body marker lights each side Millennium or equal

 Combination wheel-lift/Dock Stabilizer

 3 piece removable steel side rails

 One each 32 inch LED Work light mounted above winch

One each 60 inch light bar, 2 head LED with Work/Stop/Tail/Turn lights, Federal Signal or equal

 One each 15 Chain Lock Package – Deck centered

**Century Model 12 Series LCG (Low Center Gravity) or equal**