

Summary of Quotes

			Quantity	Total
Single Axle Chassis w/ wing	\$	297,647.98	1 \$	297,647.98
Dump Body	\$	39,480.90	1 \$	39,480.90
Spreader Body	\$	58,921.38	3 \$	176,764.14
Tanker Body	\$	45,071.25	1 \$	45,071.25
Tandem Axle Chassis w/ wing	\$	346,932.95	1 \$	346,932.95
Dump Body	\$	42,160.43	1 \$	42,160.43
Spreader Body	\$	61,961.48	1 \$	61,961.48
Tanker Body	\$	46,571.10	1 \$	46,571.10

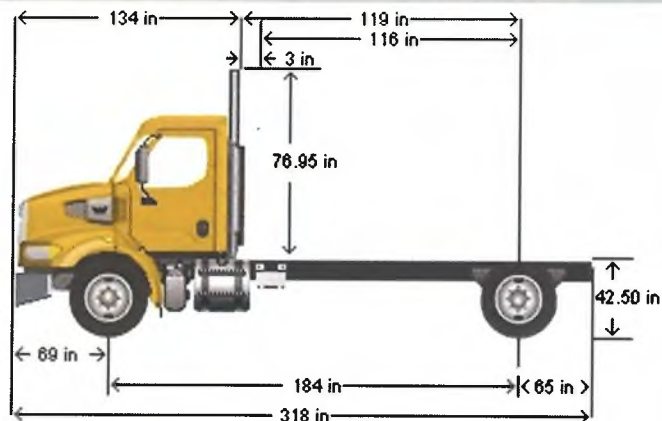
Grand Total \$ 1,056,590.23

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WESTERN STAR SINGLE AXLE UNITS 2026- MIDEAL

D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	47X
Wheelbase (545).....	4675MM (184 INCH) WHEELBASE
Rear Frame Overhang (552).....	1650MM (65 INCH) REAR FRAME OVERHANG
Cab Size (829).....	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER/CAB
Exhaust System (016).....	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE
Cab to Body Clearance (in).....	3.0

TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	134.2
Bumper to Centerline of Front Axle (BA)	69.1
Front Axle to Back of Cab (AC)	65.2
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	118.9
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	115.9
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	183.9
Cab Height (CH)	76.9
Wheelbase (WB)	184.1
Frame Overhang (OH)	65.0
Overall Frame Length	318.0
Overall Length (OAL)	318.1
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	42.5

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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M I D E A L C O N T R A C T 2 4 0 0 0 0 0 0 0 9 5

WESTERN STAR 47X

SET BACK AXLE - TRUCK
CUM L9 330 HP @ 2200 RPM; 2200 GOV RPM, 1000 LB-
FT @ 1200 RPM
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH
PTO PROVISION
MERITOR RS-23-160 23,000# R-SERIES AXLE
NEWAY ADZ 126 26,000# REAR AIR SUSPENSION

DETROIT DA-F-20.0-5 20,000# FL1 FRONT AXLE
20,000# FLAT LEAF FRONT SUSPENSION
111.6 INCH BBC CONVENTIONAL ALUMINUM CAB
4675MM (184 INCH) WHEELBASE
11.0MM X 85.0MM X 287.0MM STEEL FRAME
(0.43X3.35X11.30 INCH) 120 KSI
1650MM (65 INCH) REAR FRAME OVERHANG

		PER UNIT	TOTAL
VEHICLE PRICE	TOTAL EACH	\$ 134,705	\$ 134,705
EXTENDED WARRANTY ENGINE/TRANSMISSION		\$ 3,292	\$ 3,292
CUSTOMER PRICE BEFORE TAX		\$ 137,997	\$ 137,997

TAXES AND FEES

FEDERAL EXCISE TAX (FET)	\$ 0	\$ 0
TAXES AND FEES	\$ 0	\$ 0
OTHER CHARGES	\$ 275	\$ 270

BALANCE DUE	(LOCAL CURRENCY)	\$ 138,272
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COMMENTS:

- PAYMENT #1 CHASSIS PORTION (with/ MIDEAL FEES) UPON CHASSIS ARRIVAL...\$ 142,437.27
- PAYMENT #2 BODIES & UPFIT PORTION..... \$ 416,527.00

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ____ / ____ / ____.

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S P E C I F I C A T I O N P R O P O S A L

Vehicle Configuration

001-470	WESTERN STAR 47X	9,050	6,525
004-226	2026 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-008	TOWING PROVISION AT END OF FRAME WITH SAE J560, WITHOUT END OF FRAME AIR CONNECTIONS	15	15
003-001	LH PRIMARY STEERING LOCATION		

General Service

A85-011	CONSTRUCTION SERVICE
A84-1GM	GOVERNMENT BUSINESS SEGMENT
AA4-010	DIRT/SAND/ROCK COMMODITY
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
AB1-008	MAXIMUM 8% EXPECTED GRADE
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
N 995-1A5	WESTERN STAR VOCATIONAL WARRANTY

Truck Service

AA3-004	END DUMP BODY
AF3-2A8	TRUCK AND TRAILER SPECIALTIES INC.

Engine

101-3BP	CUM L9 330 HP @ 2200 RPM; 2200 GOV RPM, 1000 LB-FT @ 1200 RPM	-850	-70
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Electronic Parameters

79A-072	72 MPH ROAD SPEED LIMIT
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
79K-013	PTO MODE ENGINE RPM LIMIT - 1600 RPM
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM
79Q-002	PTO RPM WITH CRUISE RESUME SWITCH - 700 RPM
79U-002	PTO GOVERNOR RAMP RATE - 50 RPM PER SECOND

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	79W-024	CRUISE CONTROL BUTTON PTO CONTROL
	79X-001	PTO SPEED 1 SETTING - 700 RPM
*	80P-998	NO FLEET SPEC FOR PARAMETERIZATION
N	80G-002	PTO MINIMUM RPM - 700
	80S-004	PTO 1, DASH SWITCH, ENGAGE WHILE DRIVING
	80V-002	ENGINE MOUNT PTO, DASH SWITCH ENGAGES PTO MODE, DRIVING OPERATION

Engine Equipment

	99C-024	EPA 2010/GHG 2024 CONFIGURATION		
	13E-001	STANDARD OIL PAN		
	105-001	ENGINE MOUNTED OIL CHECK AND FILL		
	014-112	SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED HIGH CAPACITY AIR CLEANER, PASSIVE PRECLEANER, WITH INSIDE/OUTSIDE AIR AND SNOW DOOR	10	
	124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	-10	
	292-236	(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES	-10	
	290-1CD	BATTERY BOX WITH ALUMINUM COVER MOUNTED SHORT SIDE TO RAIL	-50	10
	282-042	LH BATTERY BOX MOUNTED AS FAR AFT AS POSSIBLE, NO GREATER THAN 60 INCHES BACK OF CAB		
	291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
	289-011	NON-POLISHED BATTERY BOX COVER WITH TETHER		
	293-058	NON-ESSENTIAL POSITIVE LOAD DISCONNECT, IN CAB CONTROL SWITCH MOUNTED OUTBOARD OF DRIVER SEAT	2	
	107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
	152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
	128-032	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH		
	016-1E2	RAISED RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	-35	-30
	28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH		

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239-032	11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1F8	RH CURVED VERTICAL TAILPIPE B-PILLAR RAISED UNDER STEP MOUNTED AFTERTREATMENT SYSTEM		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	9	3
23Z-005	UNPOLISHED ALUMINUM WST DIESEL EXHAUST FLUID TANK COVER		
43X-001	LH HEAVY DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH		
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	10	
110-003	CUMMINS SPIN ON FUEL FILTER		
118-001	FULL FLOW OIL FILTER		
266-109	1400 SQUARE INCH VOCATIONAL RADIATOR WITH PROTECTION PACKAGE	20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
261-001	STANDARD CHARGE AIR COOLER PLUMBING		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
360-016	1310 ADAPTER FLANGE FOR FRONT PTO PROVISION	10	
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4	
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-055	DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH	-45	

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	-230	-130
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Transmission Equipment

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	343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV
	84B-002	ALLISON VOCATIONAL RATING FOR CONCRETE MIXER APPLICATIONS ONLY AVAILABLE WITH 3000 PRODUCT FAMILIES
	84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
	84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
	84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
	84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
	84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
	84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
	84N-011	NEUTRAL AT STOP ENABLED
	353-074	QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH BLUNTCUTS
	34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR
N	362-823	CUSTOMER INSTALLED CHELSEA 280 SERIES PTO
	363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
	345-078	HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN MOUNTED
	370-006	WATER TO OIL TRANSMISSION COOLER
	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
	35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

Front Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190
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418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10
403-002	NON-ASBESTOS FRONT BRAKE LINING	
419-023	CONMET CAST IRON FRONT BRAKE DRUMS	
427-001	FRONT BRAKE DUST SHIELDS	5
409-006	FRONT OIL SEALS	
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	
405-003	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS	
536-104	DUAL POWER STEERING GEARS, BENDIX 16-20K	80
534-003	4 QUART POWER STEERING RESERVOIR	5
533-001	OIL/AIR POWER STEERING COOLER	5
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE	

Front Suspension

620-006	20,000# FLAT LEAF FRONT SUSPENSION	250
619-002	THREADED SPRING PINS AND BUSHINGS - FRONT SUSPENSION	
410-001	FRONT SHOCK ABSORBERS	

Rear Axle and Equipment

420-051	MERITOR RS-23-160 23,000# R-SERIES SINGLE REAR AXLE	-2,260
450-058	CONMET PRESET PLUS PREMIUM ALUMINUM REAR HUBS	
421-538	5.38 REAR AXLE RATIO	
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING	
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-50
388-998	NO INTERAXLE (#3) DRIVELINE	
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE	20
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE	
87B-008	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH	
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	
433-002	NON-ASBESTOS REAR BRAKE LINING	

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434-019	ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY	
451-023	CONMET CAST IRON REAR BRAKE DRUMS	
425-002	REAR BRAKE DUST SHIELDS	5
440-006	REAR OIL SEALS	
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS	-20
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS	
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE	
42T-001	STANDARD REAR AXLE BREATHER(S)	

Rear Suspension

N	622-305	NEWAY ADZ 126 26,000# REAR AIR SUSPENSION	170
	621-109	10.2 INCH NOMINAL RIDE HEIGHT (475MM GLOBAL REFERENCE HEIGHT)	
	431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP	
	888-078	IGNITION CONTROLLED ELECTRIC DUMP SWITCH FOR AIR SUSPENSION WITH STATE RETENTION AND GAUGE	
	87D-012	REAR AIR SUSPENSION DUMP VALVE AUTOFILL >5 MPH WITH INDICATOR LIGHT	
	910-004	DUAL AIR REAR SUSPENSION LEVELING VALVES	
	623-006	FORE/AFT AND TRANSVERSE CONTROL RODS	
	439-004	REAR SHOCK ABSORBERS - ONE AXLE (AIR RIDE SUSPENSION)	

Brake System

490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
480-040	WABCO SYSTEM SAVER 1200 HEATED AIR DRYER WITH PRESSURE CONTROL VALVE
483-004	WABCO OIL COALESCING FILTER FOR AIR DRYER
479-012	AIR DRYER MOUNTED UNDER HOOD
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)

Trailer Connections

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296-027	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, STOP PRE WIRE	
303-026	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE TEMPORARY TIED & COILED IN CHASSIS END OF FRAME WITH 2' ADDITIONAL; NO BRACKETS	
30K-063	150 AMP SERVICE FOR BODY BUILDER INSTALLED COMPONENTS MOUNTED BETWEEN SEATS	
310-998	NO TRAILER ELECTRICAL CABLE	-10

Wheelbase & Frame

545-467	4675MM (184 INCH) WHEELBASE		
546-1C3	11.0MM X 85.0MM X 287.0MM STEEL FRAME (0.43X3.35X11.30 INCH) 120 KSI	-10	250
548-803	TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT		
552-032	1650MM (65 INCH) REAR FRAME OVERHANG		
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	100	
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 118.9 in		
553-001	SQUARE END OF FRAME		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)	10	10
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
568-001	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		

Chassis Equipment

025-001	UNPOLISHED ALUMINUM WST EQUIPMENT COVERS	
556-997	OMIT FRONT BUMPER, CUSTOMER INSTALLED	-60
558-998	NO FRONT TOW HOOKS	-15
574-998	NO LICENSE PLATE MOUNTING	
551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS	
44Z-002	EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE	

Fuel Tanks

204-151	60 GALLON ALUMINUM FUEL TANK - LH	-5
218-006	25 INCH DIAMETER FUEL TANK(S)	

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215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS
212-007	FUEL TANK(S) FORWARD
664-001	PLAIN STEP FINISH
205-001	FUEL TANK CAP(S)
216-020	EQUIFLO INBOARD FUEL SYSTEM
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE

Tires

093-2CC	MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL FRONT TIRES	100
	CONT HDC3 11R22.5 16 PLY RADIAL TIRES	124

Wheels

	502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66
N	505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2- HAND HD STEEL DISC REAR WHEELS	52
	496-011	FRONT WHEEL MOUNTING NUTS	
	497-011	REAR WHEEL MOUNTING NUTS	

Cab Exterior

829-053	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB	
82A-029	PAINTED CAB ACCENT MOLDING	
667-001	FRONT FENDERS	
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10
678-066	INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANDLES	
65X-009	BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN	
640-016	X-SERIES STEEL REINFORCED ALUMINUM CAB	
644-048	X-SERIES VOCATIONAL HOOD	
67U-001	HOOD OPENING ASSIST WITH LOCKING STRUT	
652-016	WESTERN STAR NAMEPLATES	
727-1AY	SINGLE AIR HORN UNDER LH DECK	-4
726-002	DUAL ELECTRIC HORNS	
575-001	REAR LICENSE PLATE MOUNT END OF FRAME	
327-010	SWITCH AND WIRING WITH STAINLESS STEEL BRACKETS MOUNTED OUTBOARD ROOF FOR (2) CUSTOMER FURNISHED BEACONS	

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312-095	DUAL STAGE INTELLIGENT LED HEADLIGHTS WITH HEATED LENS SYSTEM	
302-072	ROOF MOUNTED LED MARKER LIGHTS	
314-824	WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH DUAL CONNECTIONS AT BUMPER	
311-001	DAYTIME RUNNING LIGHTS	
294-1AY	INTEGRAL LED STOP/TAIL/BACKUP LIGHTS	
300-043	LED SIDE TURN SIGNAL	
744-106	C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL HEATED CONVEX, DUAL REMOTE, STAINLESS STEEL BACK COVER, AND BLACK C-BAR	
796-001	102 INCH EQUIPMENT WIDTH	
743-209	LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS	
74A-001	RH DOWN VIEW MIRROR	
729-001	STANDARD SIDE/REAR REFLECTORS	
677-098	UNPOLISHED ALUMINUM WST AFTERTREATMENT SYSTEM COVER	
776-998	NO SLEEPER VENT	-10
768-065	HIGH VISIBILITY 3-PIECE SOLAR TINTED REAR WINDOW, (1) 31 INCH X 20 INCH SOLAR TINTED REAR WINDOW, (2) 9 INCH X 20 INCH	20
663-019	1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD	
659-016	1.5 GALLON WINDSHIELD WASHER RESERVOIR MOUNTED UNDER CAB WITH REMOTE FILL	

Cab Interior

055-015	X-SERIES BASE INTERIOR TRIM LEVEL PACKAGE		
707-1C3	CHARCOAL BLACK VINYL BASE LEVEL INTERIOR		
70K-016	CARBON WITH BASE BLACK ACCENT		
772-035	BLACK MATS WITH ADDED FLOOR HEAT AND NOISE INSULATION		
785-014	(2) DASH MOUNTED POWER OUTLETS AND COIN TRAY		
691-001	FORWARD ROOF MOUNTED CONSOLE		
693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
741-015	(2) COAT HOOKS ON BACKWALL OF CAB		
745-998	NO UPPER BUNK	-50	-50
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		

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170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
739-034	PREMIUM INSULATION		
324-1B3	STANDARD LED CAB LIGHTING		
787-998	NO SECURITY DEVICE		
657-138	ALL UNIT (S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1041		
78G-004	KEY QUANTITY OF 4		
655-028	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION		
64C-003	BLACK DOOR HANDLES		
740-998	NO MATTRESS	-20	-15
756-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	20	
760-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	40	15
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
758-135	BLACK MORDURA CLOTH DRIVER SEAT COVER WITH EMBROIDERED LOGO		
761-135	BLACK MORDURA CLOTH PASSENGER SEAT COVER WITH EMBROIDERED LOGO		
763-1AA	3 POINT ADJUSTABLE D-RING RETRACTOR DRIVER AND FIXED D-RING RETRACTOR PASSENGER SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
540-044	4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

185-004	STANDARD FOOT PEDAL SYSTEM
106-002	ELECTRONIC ACCELERATOR CONTROL
870-001	BLACK GAUGE BEZELS
734-018	STANDARD CENTER INSTRUMENT PANEL
840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE

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198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS	2
149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES	
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY	
339-005	AUXILIARY POWER DISTRIBUTION MODULE FOR TEM USE, AUXILIARY EVault MOUNTED, FUSE PROTECTED	
811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY	
81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY	
160-045	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR WITH DUST CAP LOCATED BELOW LH DASH	
844-001	2 INCH ELECTRIC FUEL GAUGE	
148-072	ENGINE REMOTE INTERFACE WITH ONE OR MORE SET SPEEDS	
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE	
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE	
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER	
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY	
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE	
736-998	NO OBSTACLE DETECTION SYSTEM	
73K-998	NO SIDE OBJECT DETECTION SYSTEM	
72J-998	NO DR ASSIST SYSTEM	
49B-004	ELECTRONIC STABILITY CONTROL	
73B-998	NO LANE DEPARTURE WARNING SYSTEM	
35M-012	1 QUIKFIT PROGRAMABLE MODULE (QPMXMC) W/ (8) 20AMP FUSED RELAYS	
6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL	
746-143	7" B-PANEL INTERACTIVE TOUCHSCREEN DISPLAY RADIO W/ USB-C, APPLE CARPLAY, ANDROID AUTO, BLUETOOTH/AM/FM/SXM/WB, WITH MICROPHONE	
747-001	DASH MOUNTED RADIO	

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750-041	STANDARD SPEAKER SYSTEM
753-998	NO AM/FM RADIO ANTENNA
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD
749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION
751-001	SINGLE REMOTE SPEAKER WITH LEAD FOR 2- WAY RADIO
752-004	SINGLE FIBERGLASS LH MIRROR MOUNTED CB ANTENNA WITH BRACKET AND LEAD
75W-001	HEADLINER MULTI-BAND ANTENNA: AM/FM/WEATHERBAND, WIFI/BLUETOOTH, GNSS/GPS
78C-003	INTEROPERABLE SDAR ANTENNA
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE
812-032	ELECTRONIC 2500 RPM TACHOMETER
813-1C8	DETROIT CONNECT PLATFORM HARDWARE
8D1-315	5 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT ON CUMMINS ENGINES
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
81Y-005	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY
842-006	DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS
882-018	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR
299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT
4E1-013	PROGRAMMABLE SWITCHES/INDICATORS LOCATED IN AUXILIARY PANEL
48H-001	QUICKFIT POWERTRAIN INTERFACE CONNECTOR LOCATED BETWEEN SEATS WITH CAPS
* 4CG-006	6 EXTRA PROGRAMMABLE SWITCHES/INDICATORS
48C-001	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) BETWEEN SEATS WITH CAP

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Design

065-000 PAINT: ONE SOLID COLOR

Color

980-6H9 CAB COLOR A: L3258EY SEMI YELLOW ELITE EY
986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS
PAINT
962-972 POWDER WHITE (N0006EA) FRONT
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)
966-972 POWDER WHITE (N0006EA) REAR
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

Extended Warranty

WAI-47H CUM 2017 L9: HD1 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM
EXTENDED WARRANTY. FEX APPLIES
WAX-101 CUM 2017 L9: AT3 MD DTY 5 YEARS / 100,000 MILES / 161,000 KM
AFTERTREATMENT. FEX APPLIES
WAK-251 ALLISON 3000 RDS SERIES TRANSMISSION EXTEND WARRANTY, 5
YEARS/UNLIMITED MILES FEX

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

TRUCK & TRAILER *Specialties, Inc.*

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September 26, 2025

City of Ann Arbor

4251 Stone School Road, Ann Arbor, MI 48108

Attn: CJ Stegink, ph: (734) 646-1846

Equipment to be purchased turnkey via D&K, Edward Merrill, ph: (517) 749-2799

Equipment Quotation

Streets Single Axle SwapLoader

HQ005397

Install SwapLoader Hooklift hoist model #SL-2418 including the following:

24,000 lbs. dumping capacity and a minimum lifting capacity of 24,000 lbs. with gross weight evenly distributed in and/or on container/body

Hooklift shall be able to handle skid-mounted containers/bodies with lengths of 10-13'

Hooklift shall have a minimum of 57-degree dump angle, on a 41" truck frame height chassis

Skid-mounted containers/bodies shall be supported with a pair of 6 1/4" minimum diameter outside flanged rollers at the rear of the hoist, and be adjustable to accommodate bodies/containers with outside subframe rail widths of 40-1/2" or 41-5/8"

Hooklift operation:

The lift shall adjust weight distribution of the container/body horizontally on the chassis while remaining in the body locks and without lifting the container/body rails off the hoist frame

Hooklift has a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation, with the container/body secured to the hooklift via body locks during the entire dump cycle, and increased mounting leverage at the beginning of the container lift cycle

Hooklift jib to reach rearward to the A-frame lifting bar by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism

All lift sections shall lock into a common rigid full-length frame to support the body/container when in a dump mode. This must be accomplished by mechanical operated latches, which lock the mast

It has a jib lockout valve to prevent jib operation while in dump mode

Hydraulic cylinders:

Dump/lift cylinders are double acting, twin cylinders, sized for the unit capacity with dual integral counterbalance valves

Dump/lift cylinders are 5.5" bore, 2.5" rod diameter and 39" stroke

Telescopic jib cylinder shall be double acting, single cylinder, sized for unit capacity with a single counterbalance valve

Jib cylinder to be a 4" bore, 2" rod diameter and 24" stroke

Hydraulic operating pressure not to exceed 2800 PSI

Mainframe design:

The mainframe of the hoist is constructed of a "Z" rail configuration

The "Z" rail mainframe is a maximum of 8.5" in height and constructed of 1/4" thick A572 50 KSI steel

Hoist "Z" frame rails to include 6 (or 3 per side) 11-3/4" x 2-3/4" x 1/2"

Nylatron wear pads for container/body support

Nylatron pads allow containers/bodies to slide back and forth horizontally on "Z" rail of hoist with ease

Jib hook design:

Vertical Jib is constructed of an 8" x 8" x 3/8" wall square tube of A500 46 KSI steel

Jib hook height is 54" from bottom of container/body subframe rails to the bottom of the A-frame lift bar

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Hooklift is to be able to pick up a container/body that rests 21" below the grade that the truck chassis is on (assumes a 41" truck frame height)

Jib hook is designed to secure container/body to hoist without the need for a hook latch mechanism to cover the hook opening

Jib hook to be permanently welded to jib

Pins:

All hooklift pins are constructed of high-strength CFR steel bar

All pinned connections are greaseable to both lubricate the joint and flush out all contaminants

Body locks:

Hooklift has passive integral slide through body locks to secure the container/body latch plates to the hooklift in dump and transport positions; to accommodate different length bodies and to allow for weight distribution changes while remaining in body locks when in the transport or in dump cycle

Hooklift warranty:

The complete mechanism, including hydraulics, will be factory warranted free of defects in material and workmanship for a period of forty-eight (48) months on parts, and twelve (12) months on labor from the date of installation

Origin of Manufacture:

Hooklift is engineered, manufactured, and assembled in the U.S.A.

Install Rexroth A10VO85 Hydraulic Load-Sense Piston Pump including the following:

Pump is front-mounted with 85CC displacement

Front crossmember for pump mounting

Spicer drive line with companion flange for easy removal

12-volt auto shutdown block

Low-oil shutdown valve and override circuit switch in-cab

Install Monroe Combo Fuel/Hydraulic Oil/Valve Enclosure including the following:

Valve enclosure installed on the fuel side/ driver's side of the combo tank with a lockable T-handle latch
100-gallon fuel capacity, 35-gallon oil capacity (mos. 00166450 & 248896)

7-gauge, type 201 stainless steel construction

5 PSI pressurized tank cap on hydraulic tank

3" supply port on hydraulic tank with 3" x 2" suction strainer

2" ball valve shutoff for supply line to the hydraulic pump

¾" case drain shutoff

Tank-mounted return line Zinga oil filter

35-gallon AW32 hydraulic oil

Ball valve shutoffs on both fuel supply and return lines

Fuel gauge sending unit

Low oil sensor mounted in the top of the tank with an adjustable height

Install labels to indicate diesel fuel/hydraulic oil

Install fuel hook mounted on tank for safety

Install Rexroth 10m4-12 Load-Sense Hydraulic Valve Assembly including the following:

Air-operated Scraper up/down section

Air-operated Scraper swing section

Air-operated Front Plow up/down section

Air-operated Front Plow swing section

Air-operated Hoist up/down section

Air-operated Jib in/out section

EPC 3-way section for Auger

EPC 4-way section for Spinner & on/off Hose Reel

EPC 4-way section for Directional Spinner

EPC 4-way asymmetrical section for Pre-wet/Anti-ice operations

Above valves within above frame-mounted stainless steel combo tank enclosure

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Return line manifold

Stainless steel piping to the rear of the body for pre-wet, spinner and auger

Stainless steel hydraulic couplers for spreader and front plow circuits with dust caps and plugs

Install TTS Pneu-Logic 8-button air-operated joystick controller for all scraper, jib, hoist & plow functions:

Install dash-mounted heads-up display to indicating function activation

Padded arm rest

Function buttons include:

Scraper (up/down, left/right)

Front Plow (up/down, left/right)

Jib/Hoist (in/out, hoist up/down)

Spinner Left

Spinner Right

Includes a safety trigger switch mounted in the handle

Wire "White Pause" button as safety to enable Jib in/out

Install Dickey-john model CPPWM GRAN Control Point Spreader Control including the following:

Controller is capable of closed-loop and groundspeed-oriented operation

Liquid and granular drivers

All necessary wiring for valves and application rate sensors

Control Point controller shall include a switch console

Blast button on side of controller

Label AVL sensor wires in-cab for City of Ann Arbor identification

Salt spreader granular/pre-wet/anti-ice/dust control functions to be calibrated/operational upon delivery

Install Monroe 29" Hustling-type truck-portion Front Hitch including the following:

12" channel front bumper with tapered ends

Mounted at standard 38-39" hitch height

3" x 10" DA lift cylinder with Socatri rod

All necessary supports and braces

36" poly markers on the ends of the bumper

Whip hose for plow disconnect through streetside front bumper

Drill-out four (4) holes for license plate on streetside of front bumper

Install Monroe 10' model MS4510 Underbody Scraper including the following:

20" x 1" heat-treated moldboard

½" thick hanger board with grease manifold brackets installed

2-½" O.D. hinge shaft

Two heavy-duty shock absorbers

Bolt-in trunnion caps for canisters; outer arm remains bolt-on style

Two, 3-½" x 10" actuating cylinders with Socatri rods

Cushion valve

1" solid circle with 5" center pin, center pin is piloted into hanger board

Two, 4" x 12" reversing cylinders with Socatri rods

Three hinge anchor points

Hydraulic pipes, hose kit and j-50 type relief valve

20.5" x 7" poly hold-down blocks

Mounting hardware

Parts-installation manual

¾" solid hanger plates

Grease line kit with manifolds

Scraper is powder-coated Black

Install Kennametal single-insert carbide cutting edges

Install one (1) Kennametal carbide curbguard on curbside end of moldboard

Install serrated safety step on streetside end of moldboard

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Install Ray Stop moldboard protection kit

Paint both ends of moldboard Yellow to match cab for visibility

Install Custom Lighting & Electrical including the following:

Utilizing chassis switches: Front Flashers, Rear Flashers, Attachment Flashers, Scraper Light, Spreader Light & Opt 6

Joystick consoles switches: Pump shutdown/override, Tarp open/close & Tailgate release w/safety cap

Heads-up Display indicators: Body-up, low oil, low liquid, joystick functions

Two (2) Grote Heated LED plow lights & aluminum brackets (mo. GR-84661-4) mounted 68" from ground

Two (2) SoundOff (mo. ELB45BCHOPC) amber/green 6" beacon strobes cab-mounted on the SS brackets

Install branch guard for on curbside beacon strobe

Two (2) SoundOff mPower (mo. EMPS20V38-P) amber/green LED flashers flush-mounted in chassis grille

Two (2) Maxxima 4" LED work lights for the scraper, one each side

Two (2) Maxxima 4" LED work lights rear-facing on top bottom of stainless steel light bars

LED marker light in cab skirt beneath driver-side door wired to chassis electrical disconnect switch

LED body marker lights

Proximity switch for body-up light

Proximity switch for Scraper to be Eaton model

Wiring to front plow proximity switch at hitch with weather pack

Betts junction box

Back-up alarm

Chassis grille flashers to be wired on one switch

Top strobes & rear flashers to be wired on one switch

Install Frame-mounted (3) hole stainless steel light boxes at chassis rear including the following:

6" oval LED STT lights, LED back-up lights & SoundOff nForce (mo. ENFSLSRV12) amber/green flashers

Two (2) SoundOff mPower (mo. EMPS20V38-P) amber/green flashers, side-facing on rear light boxes

Mounted aft of rear tires/fender both sides of chassis

Rear light oval warning flashers to be wired "on" in reverse with oval Backup light

Install Rearview Camera with Wash System including the following:

Camera mounted on rear stainless steel light box

System tying into chassis wiper fluid reservoir

Chassis wiper controls for activating wash system, momentary in-cab joystick console switch for air puffer

Air puffer & washer fluid tubing

VCMS24B color camera, high performance and waterproof

CEC34L1 loomed 34' main cable for monitor

VOSHD6MNT double-knuckle monitor mount

MSF5000 stainless steel camera box

VOM719WP 7" LCD color monitor, waterproof

Install Groeneveld Model #EP-O autolube grease system for Chassis, SwapLoader Hoist & Scraper

Install ¾" Rear Hitch Plate and 20-ton pintle hook including the following:

Pintle Hitch model PH-20, mounting height 20"

The hitch plate is to have multiple holes for adjustment height of pintle hitch

There shall be two (2) ¾" D-rings welded on each side for tow chains

The rear hitch shall have support bracing welded for extra strength and stability

7-way RV flat-pin plug, wired to code

7-way round pin plug, wired to code

License plate to be mounted at center of hitch plate

Install Electric Brake Controller, Tekonsha-preferred

Install Stainless Steel Fender Kit for single axle chassis including the following:

All necessary mounting brackets

1 pair of full radius fenders

Mudflaps mounted at the bottom of the fenders

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Install Miscellaneous items including the following:

Driver's side shall provide a 3-step egress to cab, painted Yellow to match cab
Hanging unpainted aluminum step to passenger-side of cab

Install Minimizer Floor Mats for Western Star 47X (mo. 10002323 / 103739)

Paint Front & Rear Hitch, Hoist and attaching hardware painted Black

Above installed equipment, non-stainless painted pricing: \$134,182.00 ea.

HQ005396

Option Install Monroe 7' mid-mounted Jr. Wing MJW-7' parallelogram-type including the following:

7' moldboard length, 27" intake height, 28" discharge height
Moldboard is powder-coated Monroe Nebraska Yellow (MTE-433)
Captive style moldboard and banjo plate
Wing Post is mounted just ahead of front drive tire with rear push arm mounted behind the rear drive tire
Wing Post is parallelogram design and shall mount directly ahead of the drive tire
Rear pusharm is to be equipped with a 6" cushion spring
Rear pusharms have bolt-in design with grease zerks for ease of maintenance
Hydraulic circuit for the wing is equipped with a sequencing valve for proper operation of the wing
Sequencing valve shall have built-in, manually adjustable flow controls
Wing is to be equipped with stainless steel hydraulic disconnects for easy removal
Wing will also be equipped with a cushioned rubber stop to prevent it from hitting the body when placed in the stored position at any adjusted angle
Install grease line manifold (part# 00184730I) for Paraglide post
Install stainless steel bracket on end of wing moldboard with a flush-mounted SoundOff dual mPower (mo. EMPSA0B0B-P) amber/green flasher light pointed rearward and an LED marker light pointed forward
Install one (1) 36" Tribal Whip (mo. 36WG) green LED light stick on Wing, laid down
Install additional 1' bolt-on, removable extension on curbside end of moldboard
Install recycled tire cutting edge 5" x 10" x 83" with a weld-on 2" round stock curbguard, countersink bolts
Install two (2) Monroe low-profile wing shoes, one each at toe and heel of tire cutting edge
Install safety clamp for wing push-arm spring
Additional Maxxima 4" LED work light to illuminate wing
Add wing light chassis switch
Add wing indicator light to Heads-Up Display & control button in Pneu-Logic joystick
Add proximity switch for wing-down in Paraglide post, label wire in-cab
Additional DA Air section for wing plow to valve assembly
Additional autolube grease system for wing plow (mo. 00184730I)

Install LaserLine GL3000PMC Wing Plow Guidance Laser including the following:

Green "ultra-bright" laser assembly enclosed in weatherproof housing
Heated front window lens to reduce or eliminate icing
Pneumatic air blast mechanism for lens, blasting every 5 seconds
Control switch installed in-cab for laser on/off and air blast on/off
Laser assembly installed on additional cab roof chassis bracket
Install branch guard for laser & beacon protection

Option add: \$23,616.00 ea.

HQ005407

Base Attachment #1

Install Skid-mounted Crysteel 11' Select Stainless Steel Dump Body including the following:

132" length, 58" front height, 36" side height, 42" rear height, 84" inside width (8.5-10 cu yd capacity)

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Single panel, pressed-in horizontal side braces
7-gauge 201 stainless steel front, sides and rear pillars
¼" AR450 floor
14" wide rear pillar
6-panel tailgate design constructed of 7-gauge type 201 stainless steel
Tailgate finger latches and pivot plate are stainless steel construction
8" floor-to-sides radius
9" cabshield constructed of 10-gauge type 201 stainless steel
Install side-mounted ladder, fold-down on driverside rear
Install two (2) shovel spring-paddle holders, one on each side of dump
Install banjo-style chain holders on tailgate
Single-acting "pancake-style" air cylinder for air tailgate with stainless steel coupler mounted at rear

Install Custom Lighting including the following:

2-hole tapered stainless steel light boxes mounted at rear pillar posts
Two (2) SoundOff LED nForce (mo. ENFSLSRV12) amber/green flashers
Two (2) SoundOff LED stop/turn/taillights mounted in the middle holes
LED body marker lights

Install Roll-Rite Electric 6300 Tarp System including the following:

Plug in at the back driver side for clearance when dumping Mesh-type tarp material
Tarp housing mounted on top of cabshield
Tarp arms mounted center of the dump on top rail with elbows

Install SwapLoader skid assembly for model SL-2418 including the following:

Front A-frame and longsills for body mounting, A-frame lift bar set at 54"
Skid with rear heavy-duty 6" roller drums, painted Black, mild steel construction

Install City-supplied Monroe MS969-OW/DD-DD Undertailgate Spreader & Berm Chute including:

201 stainless steel construction
Direct-drive motor, 7-gauge trough with ¼" endplates
Right-side auger discharge with one-way type flighting
4" pitch on flighting for 9" auger
1-piece top to fit Crysteel Select dump body
Full opening bottom
Inner tailgate shields
Extended integral side plates on spreader
Curbside-end mounted stainless steel berming chute for summer operations
Vertical pin mounting kit for Crysteel Select dump body
Hydraulic jumper hoses & stainless steel disconnects
Run hydraulic lines to rear of chassis with stainless steel disconnects

Paint Dump underbody and attaching hardware painted Black

Base Attachment #1 installed pricing: \$39,090.00 ea.

HQO05399

Base Attachment #2

Install Skid-mounted Monroe 11' MCV-132-84-56 Dual Auger V-box Spreader including the following:

10-gauge 201 stainless steel hopper (7.2 cubic yards)
Hopper length is 132", hopper width is 84" and hopper height is 56"
Stainless steel hopper and spinner construction
2' sloped front and doghouse for hook/loop
45-degree sloped sides with 2" double-crimped top edge
7-gauge 201 stainless steel longitudinals tied together with 3" formed channel cross-sills
Dual 7" auger conveyor system with planetary gearbox drive system

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Integral speed sensor in one auger motor
Inverted-V installed over augers; 201 stainless
Auger units include a top-grate kit with safety lock-down provisions
Bolt-down top screens with center H-beam installed, Galvanized
Stainless steel front spillshield, installed with fabricated doghouse cover plate
Stainless steel fold-down ladder, side-mounted at front, driverside
20" directional spinner assembly with poly disc, hydraulic cylinder all necessary plumbing to the rear with stainless steel hydraulic disconnects and cab controls
Stainless steel hydraulic pipe kit for augers/spinner/pre-wet/return, installed and plumbed to the left front corner of the body with jumper hoses and stainless steel couplers
Wire sensors to with WP electrical disconnects to the front of the body with electrical connections

Install Monroe Pre-Wet System including the following:

7 GPM closed-loop pre-wet system, Dickey-john flow meter (no hydraulic valve)
Enclosure mounting kit
Twin 75-gallon tanks (150-gallon total capacity) with stainless steel brackets
Remote vent kit for liquid tanks
Bulk fill 3" female, flusher kit & crossover hose kit
Pre-wet spray tube installed in auger trough
Install all necessary supports and brackets
Install stainless steel pipe kit from the rear of the spreader to the front of the spreader and equip with stainless couplers for the auger, spinner and pre-wet circuits

Install Custom Lighting & Electrical including the following:

Install two (2) stainless steel 2-hole light boxes mounted at rear including:
Two (2) SoundOff nForce (mo. ENFSLSRV12) green/amber LED flashers & two (2) STT lights
LED marker lights
Install Betts junction box at the rear of the body
Lights wired to junction box and wiring extended to the left front corner for hook up with a plug

Install SwapLoader skid assembly for model SL-2418 including the following:

Front A-frame and longills for body mounting, A-frame lift bar set at 54"
Skid with rear heavy-duty roller drums on long legs, hot-dipped galvanized
Install ½ poly between V-box and SwapLoader skid
Long leg provides the ability to unload the V-box skid without tipping up the spinner

Base Attachment #2 installed pricing: \$58,338.00 ea. Order Quantity 3

HQ005401

Base Attachment #3

Install Skid-mounted Monroe 1,235-gallon Anti-Ice/Dust Control Tank Assembly including the following:

1,235-gallon polyethylene tank with a 1.9-rated specific gravity
Tank includes center wall baffle system
Three-lane, closed-loop, non-tiered plumbing kit
190 GPM centrifugal pump with hydraulic motor (Needs 12 GPM for proper operation)
Raven-type RFM-100 flow meter for anti-ice
Three-lane electric boom valves
Three-lane stainless steel wet booms with streamer nozzles; telescoping mount with winch
Wired-Rite three (3) switches mounted with Dickey-john controller for left, center and right boom control
2nd spray boom is 2" for dust control with separate boom valve for dust control
Includes 2" full-port electric ball valve, 2" hose, clamps, camlock coupler and 2" stainless spray boom
(15) 15 GPM fan nozzles and (2) arc-style spray pattern in boom ends rated at 30 GPM each
Plumb hydraulic circuit from rear to left front corner of skid for hookup and disconnect just behind cab
Wire boom valve circuit, flow meter circuit and lighting circuit from rear of skid to left front corner of the

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skid for hook up just behind the cab

Ball valve shutoff on the supply port

Bulk fill kit, 3" female

Raven-type RFM-200 flow meter for dust control

Install Betts Dri-seal junction box for wire termination and pigtail outlets

Install Reelcraft Stainless Steel Hose Reel (mos. D83000 OLS-S, S601026-75 & 3-HS1005) with 75' x ¾" hose & bumper stop including the following:

Additional 4-way bang-bang coil to valve stack so pump can operate independently from spreader system

Additional solenoid- and boom valve for hose reel

Install Wired-Rite switch for Hose Reel

Install double-check in pump circuit

Install weatherproof switch at the rear near the hose reel so the unit can be turned on outside at the rear

(This control circuit will allow the hose reel to be operated without the use of the controller. The system

could be used for summer watering or could also be used for application of liquid de-icing materials to

sidewalks in winter operations. Because it operates independently of the controller.)

Install Stainless Steel Light Boxes mounted at the rear of the body including the following:

Two (2) 6" oval stainless steel lightboxes, one each side for SoundOff LED nForce (mo. ENFSLSRV12)

amber/green flashers & SoundOff STT lights

LED marker lights

Lights wired to a junction box with wiring extended to the left front corner for hook up with a plug

Install SwapLoader skid assembly for model SL-2418 including the following:

Front A-frame and longills for body mounting, A-frame lift bar set at 54"

Skid with rear heavy-duty roller drums, hot-dip galvanized steel construction

Base Attachment #3 installed pricing: \$44,625.00 ea.

Base Attachment #4

Install Skid-mounted Crysteel 11' Select Stainless Steel Dump Body including the following:

132" length, 58" front height, 36" side height, 42" rear height, 84" inside width (8.5-10 cu yd capacity)

Single panel, pressed-in horizontal side braces

7-gauge 201 stainless steel front, sides and rear pillars

¼" AR450 floor

14" wide rear pillar

6-panel tailgate design constructed of 7-gauge type 201 stainless steel

Tailgate finger latches and pivot plate are stainless steel construction

8" floor-to-sides radius

9" cabshield constructed of 10-gauge type 201 stainless steel

Install side-mounted ladder, fold-down on driverside rear

Install two (2) shovel-spring-paddle holders, one on each side of dump

Install banjo-style chain holders on tailgate

Install 12" stainless steel asphalt apron spillshield, bolt-on

Single-acting "pancake-style" air cylinder for air tailgate with stainless steel coupler mounted at rear

Install Custom Lighting including the following:

2-hole tapered stainless steel light boxes mounted at rear pillar posts

Two (2) SoundOff LED nForce (mo. ENFSLSRV12) amber/green flashers

Two (2) SoundOff LED stop/turn/taillights mounted in the middle holes

LED body marker lights

Install Roll-Rite Electric 6300 Tarp System including the following:

Plug in at the back driver side for clearance when dumping Mesh-type tarp material

Tarp housing mounted on top of cabshield

Tarp arms mounted center of the dump on top rail with elbows

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Install ~~Swap~~ **Loader skid assembly for model SL-2418 including the following:**

Front A-frame and longsills for body mounting, A-frame lift bar set at 54"

Skid with rear heavy-duty 6" roller drums, painted Black, mild steel construction

Paint ~~Dump~~ **underbody and attaching hardware painted Black**

Base Attachment #4 installed pricing: \$37,106.00 ea.

Chassis requirements to be confirmed at time of order:

Western Star 47X, Cummins L9, Allison 3000

CA: 119"

Highest ground clearance

Three (3) batteries mounted driverside as far aft as possible

Horizontal DPF and SCR mounted under the cab

13-gallon DEF tank driverside behind front fender

Front of engine PTO

Air tanks mounted between the frame rails

Trailer pre-wiring to the rear for electric brake controller

30K-063 150 AMP service between seats with blunt cuts

Front frame extension

Delete OEM bumper

Temporary 60-gallon fuel tank positioned under driver's door

Stationary grille standard on Western Star 47X

Stainless steel cab brackets for beacons and wiring

Plow light/Headlight switch and related OEM wiring

6-pack programmable chassis switches

Exceptions:

Truck & Trailer Specialties, Inc. declares with the enclosed bid submittal that we do not comply with the Fair Living Wage proposal of the City of Ann Arbor as defined in Section 1:811-1:821 of Chapter 23 of Title I of the Code.

Truck & Trailer Specialties, Inc. also declares that we do not comply with Chapter 112 of Title IX of the Code of the City of Ann Arbor and in particular the following Section 1:811-1:821 of Chapter 23 of Title I of the Code.

Truck & Trailer Specialties, Inc. does affirm that we do comply with both the minimum wage requirements as defined and governed by the State of Michigan as well as the non-discrimination laws as defined and governed by the State of Michigan.

Payment Terms: Net 30. Pricing effective for 30 days.

FOB: City of Ann Arbor

Delivery: 16-18 months ARO, depending on chassis arrival

Thank you for the opportunity to quote.

Respectfully submitted by,

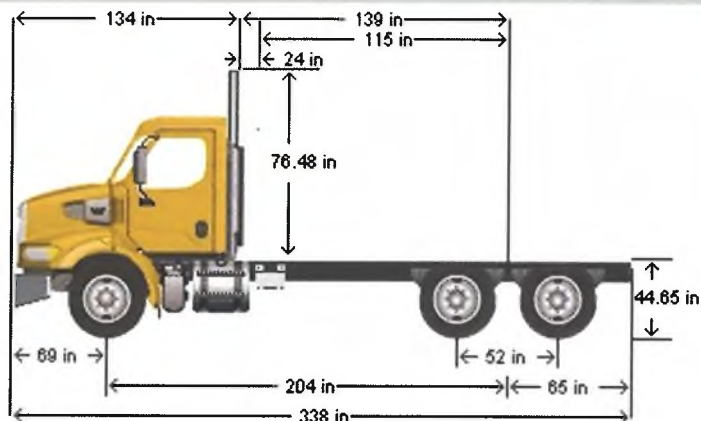
Jon Luea/Brian Bouwman

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TANDEM WESTERN STAR 2026 MIDEAL

DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model.....	47X
Wheelbase (545).....	5175MM (204 INCH) WHEELBASE
Rear Frame Overhang (552).....	1650MM (65 INCH) REAR FRAME OVERHANG
Cab Size (829).....	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPER/CAB
Exhaust System (016).....	RH OUTBOARD FRAME MOUNTED VERTICAL AFTERTREATMENT SYSTEM ASSEMBLY WITH TOPSTACK
Cab to Body Clearance (in).....	3.0

TABLE SUMMARY - DIMENSIONS

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Dimensions	Inches
Bumper to Back of Cab (BBC)	134.2
Bumper to Centerline of Front Axle (BA)	69.1
Front Axle to Back of Cab (AC)	65.2
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	138.6
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	115.1
Back of Cab Protrusions (Exhaust/Intake) (CP)	25.5
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	23.5
Back of Cab to End of Frame	203.6
Cab Height (CH)	76.5
Wheelbase (WB)	203.7
Frame Overhang (OH)	65.0
Overall Frame Length	337.7
Overall Length (OAL)	337.8
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	44.6

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

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M I D E A L C O N T R A C T 2 4 0 0 0 0 0 0 0 9 5

WESTERN STAR 47X

SET BACK AXLE - TRUCK
CUM X12 455V HP @ 1900 RPM, 1700 LB-FT @ 1000
RPM, 2000 GOV RPM, VOC
ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH
PTO PROVISION
MERITOR RT-46-160 46,000# R-SERIES AXLE
HENDRICKSON HAULMAAX EX 46,000# REAR
SUSPENSION

DETROIT DA-F-20.0-5 20,000# FRONT AXLE
20,000# FLAT LEAF FRONT SUSPENSION
111.6 INCH BBC CONVENTIONAL ALUMINUM CAB
5175MM (204 INCH) WHEELBASE
13.0MM X 87.0MM X 311.0MM STEEL FRAME
(0.51X3.43X12.24 INCH) 120 KSI
1650MM (65 INCH) REAR FRAME OVERHANG

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL EACH	\$	164,360	\$	164,360
EXTENDED WARRANTY ENGINE/TRANSMISSION		\$	4,341	\$	4,341
CUSTOMER PRICE BEFORE TAX		\$	168,701	\$	168,701

TAXES AND FEES

FEDERAL EXCISE TAX (FET)	\$	0	\$	0
TAXES AND FEES	\$	0	\$	0
TITLE/DOC	\$	275	\$	275

BALANCE DUE	(LOCAL CURRENCY)	\$	168,976
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COMMENTS:

Payment #1, Chassis portion (with MiDeal Fees) upon chassis arrival.....\$ 172,229.96
Payment #2, Bodies / upfit portion.....\$ 325,396.00

APPROVAL: Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ____ / ____ / ____.

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SPECIFICATION PROPOSAL

Vehicle Configuration

001-470	WESTERN STAR 47X	9,050	6,525
004-226	2026 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-006	TRAILER TOWING PROVISION AT END OF FRAME WITH SAE J560	10	10
003-001	LH PRIMARY STEERING LOCATION		
A85-011	CONSTRUCTION SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-010	DIRT/SAND/ROCK COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-1A5	WESTERN STAR VOCATIONAL WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 20000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs		

Truck Service

AA3-004	END DUMP BODY
AF3-2A8	TRUCK AND TRAILER SPECIALTIES INC.

Tractor Service

AA2-005	FLATBED TRAILER
AH6-001	SINGLE (1) TRAILER

Engine

101-26K	CUM X12 455V HP @ 1900 RPM, 1700 LB-FT @ 1000 RPM, 2000 GOV RPM, VOC	-390	-45
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Electronic Parameters

79A-070	70 MPH ROAD SPEED LIMIT
79K-013	PTO MODE ENGINE RPM LIMIT - 1600 RPM

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79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
Engine Equipment			
99C-024	EPA 2010/GHG 2024 CONFIGURATION		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
014-112	SIDE OF HOOD AIR INTAKE WITH ENGINE MOUNTED HIGH CAPACITY AIR CLEANER, PASSIVE PRECLEANER, WITH INSIDE/OUTSIDE AIR AND SNOW DOOR	10	
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	-10	
292-236	(3) DTNA GENUINE, FLOODED STARTING, MIN 3000CCA, 555RC, THREADED STUD BATTERIES	-10	
290-1CD	BATTERY BOX WITH ALUMINUM COVER MOUNTED SHORT SIDE TO RAIL	-50	10
282-042	LH BATTERY BOX MOUNTED AS FAR AFT AS POSSIBLE, NO GREATER THAN 60 INCHES BACK OF CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-011	NON-POLISHED BATTERY BOX COVER WITH TETHER		
293-058	NON-ESSENTIAL POSITIVE LOAD DISCONNECT, IN CAB CONTROL SWITCH MOUNTED OUTBOARD OF DRIVER SEAT	2	
107-048	CUMMINS NATURALLY ASPIRATED 25.9 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-004	CUMMINS INTEBRAKE BRAKE WITH HIGH MED LOW BRAKE		
016-1C0	RH OUTBOARD FRAME MOUNTED VERTICAL AFTERTREATMENT SYSTEM ASSEMBLY WITH TOPSTACK	40	25
28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH		
239-032	11 FOOT 00 INCH (132 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
237-1CU	RH CURVED TOPSTACK		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	9	3
23Z-005	UNPOLISHED ALUMINUM WST DIESEL EXHAUST FLUID TANK COVER		

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43X-001	LH HEAVY DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION	
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP	
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAIPIPE SHIELD	
273-059	ELECTRONICALLY CONTROLLED VARIABLE SPEED VISCOUS FAN DRIVE	
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED	
122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	10
110-003	CUMMINS SPIN ON FUEL FILTER	
118-001	FULL FLOW OIL FILTER	
266-109	1400 SQUARE INCH VOCATIONAL RADIATOR WITH PROTECTION PACKAGE	20
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT	
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT	
261-001	STANDARD CHARGE AIR COOLER PLUMBING	
270-016	RADIATOR DRAIN VALVE	
168-002	LOWER RADIATOR GUARD	
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER	4
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR	
155-055	DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH	-45

Transmission

342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84N-011	NEUTRAL AT STOP ENABLED

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N	353-074	QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH BLUNTCUTS	
	34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR	
	362-823	CUSTOMER INSTALLED PTO	
	363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON	
	341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN	
	345-078	HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN MOUNTED	
	370-006	WATER TO OIL TRANSMISSION COOLER	
	346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK	
	35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)	

Front Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	20
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10
403-002	NON-ASBESTOS FRONT BRAKE LINING	
419-023	CONMET CAST IRON FRONT BRAKE DRUMS	
427-001	FRONT BRAKE DUST SHIELDS	5
409-006	FRONT OIL SEALS	
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	
405-003	HALDEX AUTOMATIC FRONT SLACK ADJUSTERS	
536-104	DUAL POWER STEERING GEARS, BENDIX 16-20K	80
534-003	4 QUART POWER STEERING RESERVOIR	5
533-001	OIL/AIR POWER STEERING COOLER	5
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE	

Front Suspension

620-006	20,000# FLAT LEAF FRONT SUSPENSION	250
619-002	THREADED SPRING PINS AND BUSHINGS - FRONT SUSPENSION	
410-001	FRONT SHOCK ABSORBERS	

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Rear Axle and Equipment

420-103	MERITOR RT-46-160 46,000# R-SERIES TANDEM REAR AXLE		470
450-058	CONMET PRESET PLUS PREMIUM ALUMINUM REAR HUBS		
421-456	4.56 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-25	-25
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30
878-023	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE		
87A-005	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH		
87B-008	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-019	ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10
440-006	REAR OIL SEALS		
426-101	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS		
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
42T-001	STANDARD REAR AXLE BREATHER(S)		

Rear Suspension

622-312	HENDRICKSON HAULMAAX EX 46,000# REAR SUSPENSION	115
621-111	10.8 INCH NOMINAL RIDE HEIGHT (490MM GLOBAL REFERENCE HEIGHT)	
624-011	52 INCH AXLE SPACING	
628-010	HENDRICKSON HN, HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN	

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623-016	STANDARD DUTY FORE/AFT AND HEAVY DUTY TRANSVERSE CONTROL RODS	
625-008	DOUBLE REBOUND STRAP - INBOARD AND OUTBOARD	13
439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)	

Brake System

490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
480-040	WABCO SYSTEM SAVER 1200 HEATED AIR DRYER WITH PRESSURE CONTROL VALVE
483-004	WABCO OIL COALESCING FILTER FOR AIR DRYER
479-012	AIR DRYER MOUNTED UNDER HOOD
460-008	STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)

Trailer Connections

	914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS	5	5
	296-027	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR COMBINATION STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE		
	303-026	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE TEMPORARY TIED & COILED IN CHASSIS END OF FRAME WITH 2' ADDITIONAL; NO BRACKETS		
N	30K-063	150 AMP SERVICE FOR BODY BUILDER INSTALLED COMPONENTS MOUNTED BETWEEN SEATS		
	310-998	NO TRAILER ELECTRICAL CABLE	-10	

Wheelbase & Frame

545-517	5175MM (204 INCH) WHEELBASE		
546-106	13.0MM X 87.0MM X 311.0MM STEEL FRAME (0.51X3.43X12.24 INCH) 120 KSI	280	360
548-803	TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT		
552-032	1650MM (65 INCH) REAR FRAME OVERHANG		
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	120	

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AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :		
	138.58 in		
553-001	SQUARE END OF FRAME		
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)	10	10
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		20
568-001	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		

Chassis Equipment

025-001	UNPOLISHED ALUMINUM WST EQUIPMENT COVERS		
556-997	OMIT FRONT BUMPER	-60	
551-002	HUCK-SPIN ROUND COLLAR CHASSIS FASTENERS		
44Z-002	EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE		

Fuel Tanks

204-151	60 GALLON ALUMINUM FUEL TANK - LH	-5	
218-006	25 INCH DIAMETER FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
216-020	EQUIFLO INBOARD FUEL SYSTEM		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		

Tires

093-2CC	MICHELIN XZU-S2 315/80R22.5 20 PLY RADIAL FRONT TIRES	100	
094-1YV	CONTINENTAL INTELLIGENT HDC3 11R22.5 16 PLY RADIAL REAR TIRES		192

Wheels

502-445	ACCURIDE 29300 22.5X9.00 10-HUB PILOT 6.38 INSET 5-HAND STEEL DISC FRONT WHEELS	82	
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		104
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		

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Cab Exterior

829-053	111.6 INCH BBC CONVENTIONAL ALUMINUM CAB	
82A-029	PAINTED CAB ACCENT MOLDING	
667-001	FRONT FENDERS	
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10
678-066	INTERIOR GRAB HANDLES WITH ADDED LOWER LH AND RH A PILLAR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANDLES	
65X-009	BRIGHT HOOD MOUNTED AIR INTAKE GRILLE, BLACK SCREEN	
640-016	X-SERIES STEEL REINFORCED ALUMINUM CAB	
644-048	X-SERIES VOCATIONAL HOOD	
67U-001	HOOD OPENING ASSIST WITH LOCKING STRUT	
652-016	WESTERN STAR NAMEPLATES	
727-096	DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB	
726-002	DUAL ELECTRIC HORNS	
575-001	REAR LICENSE PLATE MOUNT END OF FRAME	
327-010	SWITCH AND WIRING WITH STAINLESS STEEL BRACKETS MOUNTED OUTBOARD ROOF FOR (2) CUSTOMER FURNISHED BEACONS	
312-095	DUAL STAGE INTELLIGENT LED HEADLIGHTS WITH HEATED LENS SYSTEM	
302-072	ROOF MOUNTED LED MARKER LIGHTS	
314-824	WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH DUAL CONNECTIONS AT BUMPER	
311-001	DAYTIME RUNNING LIGHTS	
294-1AY	INTEGRAL LED STOP/TAIL/BACKUP LIGHTS	
300-043	LED SIDE TURN SIGNAL	
318-1AD	SWITCH, INDICATOR LIGHT AND APPROXIMATELY 10 FEET OF WIRE ON CHASSIS LH AT BACK OF CAB FOR CUSTOMER FURNISHED UTILITY LIGHT(S)	
744-106	C-BAR MIRROR SYSTEM WITH DUAL HEATED MIRRORS WITH INTEGRAL HEATED CONVEX, DUAL REMOTE, STAINLESS STEEL BACK COVER, AND BLACK C-BAR	
796-001	102 INCH EQUIPMENT WIDTH	
743-209	LH AND RH CONVEX MIRRORS INTEGRAL WITH PRIMARY MIRRORS	
74A-001	RH DOWN VIEW MIRROR	
729-001	STANDARD SIDE/REAR REFLECTORS	

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N	677-098	UNPOLISHED ALUMINUM WST AFTERTREATMENT SYSTEM COVER	
	776-998	NO SLEEPER VENT	-10
	768-065	HIGH VISIBILITY 3-PIECE SOLAR TINTED REAR WINDOW, (1) 31 INCH X 20 INCH SOLAR TINTED REAR WINDOW, (2) 9 INCH X 20 INCH	20
	663-019	1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD	
N	659-016	1.5 GALLON WINDSHIELD WASHER RESERVOIR MOUNTED UNDER CAB WITH REMOTE FILL	

Cab Interior

	055-015	X-SERIES BASE INTERIOR TRIM LEVEL PACKAGE		
	707-1C3	CHARCOAL BLACK VINYL BASE LEVEL INTERIOR		
	70K-016	CARBON WITH BASE BLACK ACCENT		
	772-035	BLACK MATS WITH ADDED FLOOR HEAT AND NOISE INSULATION		
	785-014	(2) DASH MOUNTED POWER OUTLETS AND COIN TRAY		
	691-001	FORWARD ROOF MOUNTED CONSOLE		
	693-019	LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS		
	741-015	(2) COAT HOOKS ON BACKWALL OF CAB		
	745-998	NO UPPER BUNK	-50	-50
	738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
	170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
	698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
	739-034	PREMIUM INSULATION		
	324-1B3	STANDARD LED CAB LIGHTING		
	787-998	NO SECURITY DEVICE		
	657-138	ALL UNIT (S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1041		
	78G-004	KEY QUANTITY OF 4		
	655-028	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION		
	64C-003	BLACK DOOR HANDLES		
	756-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	20	

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760-1J6	PREMIUM 2.0 HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	40	15
759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
758-135	BLACK MORDURA CLOTH DRIVER SEAT COVER WITH EMBROIDERED LOGO		
761-135	BLACK MORDURA CLOTH PASSENGER SEAT COVER WITH EMBROIDERED LOGO		
763-1AA	3 POINT ADJUSTABLE D-RING RETRACTOR DRIVER AND FIXED D-RING RETRACTOR PASSENGER SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
540-044	4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

185-004	STANDARD FOOT PEDAL SYSTEM	
106-002	ELECTRONIC ACCELERATOR CONTROL	
870-001	BLACK GAUGE BEZELS	
734-018	STANDARD CENTER INSTRUMENT PANEL	
840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE	
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS	2
149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES	
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY	
339-005	AUXILIARY POWER DISTRIBUTION MODULE FOR TEM USE, AUXILIARY EVault MOUNTED, FUSE PROTECTED	
811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY	
81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY	
160-045	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR WITH DUST CAP LOCATED BELOW LH DASH	
844-001	2 INCH ELECTRIC FUEL GAUGE	
148-072	ENGINE REMOTE INTERFACE WITH ONE OR MORE SET SPEEDS	
856-001	ENGINE COOLANT TEMPERATURE GAUGE	

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854-001	ENGINE OIL TEMPERATURE GAUGE	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE	
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE	
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER	
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY	
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE	
35M-012	1 QUIKFIT PROGRAMABLE MODULE (QPMXMC) W/ (8) 20AMP FUSED RELAYS	
6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL	
746-143	7" B-PANEL INTERACTIVE TOUCHSCREEN DISPLAY RADIO W/ USB-C, APPLE CARPLAY, ANDROID AUTO, BLUETOOTH/AM/FM/SXM/WB, WITH MICROPHONE	
747-001	DASH MOUNTED RADIO	
750-041	STANDARD SPEAKER SYSTEM	
748-006	POWER GROUND WIRING PROV. OVERHEAD	
749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION	
751-001	REMOTE SPEAKER & LEAD FOR 2-WAY RADIO	
752-004	SINGLE FIBERGLASS LH MIRROR MOUNTED CB ANTENNA WITH BRACKET AND LEAD	
75W-001	HEADLINER MULTI-BAND ANTENNA: AM/FM/WEATHERBAND, WIFI/BLUETOOTH, GNSS/GPS	
78C-003	INTEROPERABLE SDAR ANTENNA	
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE	
812-032	ELECTRONIC 2500 RPM TACHOMETER	
813-1C8	DETROIT CONNECT PLATFORM HARDWARE	
8D1-315	5 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT ON CUMMINS ENGINES	
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP	
81Y-005	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY	
482-001	STANDARD TRACTOR PROTECTION VALVE	
883-001	TRAILER HAND CONTROL BRAKE VALVE	2
842-006	TURBO AIR PRESSURE IN DRIVER DISPLAY	

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836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS
882-021	TWO VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR
299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT
4E1-013	PROGRAMMABLE SWITCHES/INDICATORS LOCATED IN AUXILIARY PANEL
48H-001	QUICKFIT POWERTRAIN INTERFACE CONNECTOR BETWEEN SEATS WITH CAPS
* 4CG-006	6 EXTRA PROGRAMMABLE SWITCHES/INDICATORS \$A1A0154ZZ,A1B0072ZZ,A1C0200ZZ,A1D0128ZZ,A1E0230ZZ,A1F0208ZZ
48C-001	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) BETWEEN SEATS WITH CAP

Color

980-6H9	CAB COLOR A: L3258EY SEMI YELLOW ELITE EY
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS
962-972	POWDER WHITE (N0006EA) WHEELS/RIMS

Extended Warranty

WAI-5UN	CUM 2017 X12 HT1 TR TOW 5 YEARS /100,000 MILES / 161,000 KM EXTENDED WARRANTY. FEX APPLIES.
WAX-159	CUM EPA 2017 X12: AT3 5 YEARS / 100,000 MILES / 161,000 KM AFTERTREATMENT. FEX APPLIES.
WAK-140	ALLISON 4500 RDS SERIES TRANSMISSION EXTENDED WARRANTY, 5 YEARS/UNLIMITED MILES FEX

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

TRUCK & TRAILER *Specialties, Inc.*

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August 28, 2025

City of Ann Arbor
4251 Stone School Road, Ann Arbor, MI 48108
Attn: CJ Stegink, ph: (734) 646-1846
Equipment to be purchased turnkey via D&K, Edward Merrill, ph: (517) 749-2799

Equipment Quotation

Streets Tandem Axle SwapLoader

HQ0005324

Install SwapLoader Hooklift hoist model #SL-412 including the following:

40,000 lbs. dumping and lifting capacity with gross weight evenly distributed in and/or on container/body
Hooklift shall be able to handle skid-mounted containers/bodies with lengths of 12-15'

Hooklift shall have a minimum of 60-degree dump angle

Skid-mounted containers/bodies shall be supported with a pair of 6 1/4" minimum diameter outside flanged rollers at the rear of the hoist, and be adjustable to accommodate bodies/containers with outside subframe rail widths of 40-1/2" or 41-5/8"

Hooklift operation:

The lift shall adjust weight distribution of the container/body horizontally on the chassis while remaining in the body locks and without lifting the container/body rails off the hoist frame

Hooklift has a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation, with the container/body secured to the hooklift via body locks during the entire dump cycle, and increased mounting leverage at the beginning of the container lift cycle

Hooklift jib to reach rearward to the A-frame lifting bar by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism

All lift sections shall lock into a common rigid full-length frame to support the body/container when in a dump mode. This must be accomplished by mechanical operated latches, which lock the mast

It has a jib lockout valve to prevent jib operation while in dump mode

Hydraulic cylinders:

Dump/lift cylinders are double acting, twin cylinders, sized for the unit capacity with dual integral counterbalance valves. Dump/lift cylinders are 6" bore, 3" rod diameter and 56" stroke

Telescopic jib cylinder shall be double acting, single cylinder, sized for unit capacity with a single counterbalance valve. Jib cylinder to be a 4" bore, 2 1/2" rod diameter and 30" stroke

Hydraulic operating pressure will not exceed 3600 PSI

Mainframe design:

The mainframe of the hoist is constructed of a "Z" rail configuration

The "Z" rail mainframe is a maximum of 10 1/2" in height and constructed of 1/4" thick A572 50 KSI steel

Hoist "Z" frame rails to include 6 (or 3 per side) 11-3/4" x 2-3/4" x 1/2" Nylatron wear pads for container/body support

The Nylatron pad will allow the containers/bodies to slide back and forth horizontally on the "Z" rail of the hoist with ease

Jib hook design:

Vertical Jib is constructed of a 9" x 9" x 1/2" wall square tube of A500 50 KSI steel

Jib hook height is adjustable to either 53-7/8" or 61-3/4" from the bottom of the container/body subframe rails to the bottom of the A-frame lift bar

Pins:

All hooklift pins are constructed of high-strength CFR steel bar

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All pinned connections are greaseable to both lubricate the joint and flush out all contaminants

Body locks: Hooklift has passive integral slide through body locks to secure the container/body latch plates to the hooklift in dump and transport positions; to accommodate different length bodies and to allow for weight distribution changes while remaining in body locks when in the transport or in dump cycle

Hooklift warranty:

The complete mechanism, including hydraulics, will be factory warranted free of defects in material and workmanship for a period of forty-eight (48) months on parts, and twelve (12) months on labor from the date of installation

Origin of Manufacture:

Hooklift is engineered, manufactured, and assembled in the U.S.A.

Install Rexroth A10VO85 Hydraulic Load-Sense Piston Pump including the following:

Pump is front-mounted with 85CC displacement
Front crossmember for pump mounting
Spicer drive line with companion flange for easy removal
12-volt auto shutdown block
Low-oil shutdown valve and override circuit switch in-cab

Install Monroe Combo Fuel/Hydraulic Oil/Valve Enclosure including the following:

Valve enclosure installed on the fuel side/ driver's side of the combo tank with a lockable T-handle latch
100-gallon fuel capacity, 30-gallon oil capacity (mos. 00193863-B & 248896)
7-gauge, type 201 stainless steel construction
5 PSI pressurized tank cap on hydraulic tank
3" supply port on hydraulic tank with 3" x 2" suction strainer
2" ball valve shutoff for supply line to the hydraulic pump
¾" case drain shutoff
Tank-mounted return line Zinga oil filter
30-gallon AW32 hydraulic oil
Ball valve shutoffs on both fuel supply and return lines
Fuel gauge sending unit
Low oil sensor mounted in the top of the tank with an adjustable height
Install labels to indicate diesel fuel/hydraulic oil
Install fuel hook mounted on tank for safety

Install Rexroth 10m4-12 Load-Sense Hydraulic Valve Assembly including the following:

Air-operated Scraper up/down section
Air-operated Scraper swing section
Air-operated Front Plow up/down section
Air-operated Front Plow swing section
Air-operated Hoist up/down section
Air-operated Jib in/out section
EPC 4-way section for Auger/Packer Body
EPC 4-way section for Spinner & on/off Hose Reel
EPC 4-way section for Directional Spinner
EPC 4-way asymmetrical section for Pre-wet/Anti-ice operations

Above valves within above frame-mounted stainless steel combo tank enclosure

Return line manifold

Stainless steel piping to the rear of the body for pre-wet, spinner and auger

Stainless steel hydraulic couplers for spreader and front plow circuits with dust caps and plugs

Install TTS Pneu-Logic 8-button air-operated joystick controller for all scraper, jib, hoist & plow functions:

Install dash-mounted heads-up display to indicating function activation

Padded arm rest

Function buttons include:

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Scraper (up/down, left/right)
Front Plow (up/down, left/right)
Wing Plow (up/down)
Jib/Hoist (in/out, hoist up/down)
Spinner Left
Spinner Right

Includes a safety trigger switch mounted in the handle
Wire "White Pause" button as safety to enable Jib in/out

Install Dickey-john model CPPWM GRAN Control Point Spreader Control including the following:

Controller is capable of closed-loop and groundspeed-oriented operation
Liquid and granular drivers
All necessary wiring for valves and application rate sensors
Control Point controller shall include a switch console
Blast button on side of controller
Label AVL sensor wires in-cab for City of Ann Arbor identification for plow, scraper and wing dn inputs
Salt spreader granular/pre-wet/anti-ice/dust control functions to be calibrated/operational upon delivery

Install Monroe 29" Husting-type truck-portion Front Hitch including the following:

12" channel front bumper with tapered ends
Mounted at standard 38-39" hitch height
3" x 10" DA lift cylinder with Socatri rod
All necessary supports and braces
36" poly markers on the ends of the bumper
Whip hose for plow disconnect through streetside front bumper
Drill-out four (4) holes for license plate on streetside of front bumper

Install Monroe 10' model MS4510 Underbody Scraper including the following:

20" x 1" heat-treated moldboard
½" thick hanger board with grease manifold brackets installed
2-½" O.D. hinge shaft
Two heavy-duty shock absorbers
Bolt-in trunnion caps for canisters; outer arm remains bolt-on style
Two, 3-½" x 10" actuating cylinders with Socatri rods
Cushion valve
1" solid circle with 5" center pin, center pin is piloted into hanger board
Two, 4" x 12" reversing cylinders with Socatri rods
Three hinge anchor points
Hydraulic pipes, hose kit and j-50 type relief valve
20.5" x 7" poly hold-down blocks
Mounting hardware
Parts-installation manual
¾" solid hanger plates
Grease line kit with manifolds
Scraper is powder-coated Black
Install Kennametal single-insert carbide cutting edges
Install one (1) Kennametal carbide curbguard on curbside end of moldboard
Install serrated safety step on streetside end of moldboard
Install Ray Stop moldboard protection kit
Paint both ends of moldboard Yellow to match cab for visibility

Install Custom Lighting & Electrical including the following:

Utilizing chassis switches: Front Flashers, Rear Flashers, Attachment Flashers, Scraper Light, Spreader Light & Wing Lights
Joystick consoles switches: Pump shutdown/override, Tarp open/close & Tailgate release w/safety cap

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Heads-up Display indicators: Body-up, low oil, low liquid, joystick functions

Two (2) Grote Heated LED plow lights & aluminum brackets (mo. GR-84661-4) mounted 68" from ground

Two (2) SoundOff (mo. ELB45BCHOPC) amber/green 6" beacon strobes cab-mounted on the SS brackets

Install branch guard for on curbside beacon strobe

Two (2) SoundOff mPower (mo. EMPC2SMS4) amber/green LED flashers flush-mounted in chassis grille

Two (2) Maxxima 4" LED work lights for the scraper, one each side

Two (2) Maxxima 4" LED work lights rear-facing on bottom of stainless steel light bars

LED marker light in cab skirt beneath driver-side door wired to chassis electrical disconnect switch

LED body marker lights

Proximity switch for body-up light

Proximity switch for Scraper to be Eaton model

Wiring to front plow proximity switch at hitch with weather pack

Betts junction box

Back-up alarm

Chassis grille flashers to be wired on one switch

Top strobes & rear flashers to be wired on one switch

Install Frame-mounted (3) hole stainless steel light boxes at chassis rear including the following:

6" oval LED STT lights, LED back-up lights & SoundOff nForce (mo. ENFSLSRV12) amber/green flashers

Two (2) SoundOff mPower (mo. EMPC2SMS4) amber/green flashers, side-facing on rear light boxes

Mounted aft of rear tires/fender both sides of chassis

Rear light oval warning flashers to be wired "on" in reverse with oval Backup light

Install Rearview Camera with Wash System including the following:

Camera mounted on rear stainless steel light box

System tying into chassis wiper fluid reservoir

Chassis wiper controls for activating wash system, momentary in-cab joystick console switch for air puffer

Air puffer & washer fluid tubing

VCMS24B color camera, high performance and waterproof

CEC34L1 loomed 34' main cable for monitor

VOSHD6MNT double-knuckle monitor mount

MSF5000 stainless steel camera box

VOM719WP 7" LCD color monitor, waterproof

Install Groeneveld Model #EP-O autolube grease system for Chassis, SwapLoader Hoist & Scraper

Install ¾" Rear Hitch Plate and 20-ton pintle hook including the following:

Pintle Hitch model PH-20, mounting height 20"

The hitch plate is to have multiple holes for adjustment height of pintle hitch

There shall be two (2) ¾" D-rings welded on each side for tow chains

The rear hitch shall have support bracing welded for extra strength and stability

7-way RV flat-pin plug, wired to code

7-way round pin plug, wired to code

License plate to be mounted at center of hitch plate

Remount glad hands at rear

Install Electric Brake Controller, Tekonsha-preferred

Install Stainless Steel Fender Kit for tandem axle chassis including the following:

All necessary mounting brackets

1 pair of full radius fenders

Mudflaps mounted at the bottom of the fenders

Install Miscellaneous items including the following:

Driver's side shall provide a 3-step egress to cab, painted Yellow to match cab

Hanging unpainted aluminum step to passenger-side of cab

Install Minimizer Floor Mats for Western Star 47X (mo. 10002323 / 103739)

Paint Front & Rear Hitch, Hoist and attaching hardware painted Black

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Above installed equipment, non-stainless painted pricing: \$149,215.00 ea.

HQO005324

Option Install Monroe 9' mid-mounted Patrol Wing parallelogram-type including the following:

Wing shall be designed to mount behind the underbody blade and shall have moldboard length of 113" at the top and 108" at the bottom

Moldboard is powder-coated Monroe Nebraska Yellow (MTE-433)

Moldboard height shall measure 33" inboard and 33" outboard with cutting edge

Moldboard shall be 3/16" A36 steel

Bottom angle is 4" x 4" x 3/4", reinforced between cutting edge holes with ten (10) 3" x 3" x 1/2" gussets

Rubber bumper stop

Twin rear push-arms with hydraulic cylinder for heel lift

Install grease zerk in bolt at front of wing

Rear push-arms have bolt-in design with grease zerks for ease of maintenance

Front arm banjo plate has captive design

A sequencing valve is included

Heel cylinder will include stainless steel hydraulic disconnects

Install grease line manifold (part# 001847301) for Paraglide post

Install stainless steel bracket on end of wing moldboard with a flush-mounted SoundOff dual mPower

(mo. EMPSA0B0B-P) amber/green flasher light pointed rearward and an LED marker light pointed forward

Install one (1) 36" Tribal Whip (mo. 36WG) green LED light stick on Wing, laid down

Install additional 1' bolt-on, removable extension on curbside end of moldboard

Install recycled tire cutting edge 5" x 10" x 108" with weld-on 2" round stock curbguard, countersink bolts

Install two (2) Monroe low-profile wing shoes, one each at toe and heel of tire cutting edge

Additional Maxxima 4" LED work light to illuminate wing

Add wing light chassis switch

Add wing indicator light to Heads-Up Display & control button in Pneu-Logic joystick

Add proximity switch for wing-down in Paraglide post, label wire in-cab

Additional DA Air section for wing plow to valve assembly

Additional autolube grease system for wing plow

Install LaserLine GL3000PMC Wing Plow Guidance Laser including the following:

Green "ultra-bright" laser assembly enclosed in weatherproof housing

Heated front window lens to reduce or eliminate icing

Pneumatic air blast mechanism for lens, blasting every 5 seconds

Control switch installed in-cab for laser on/off and air blast on/off

Laser assembly installed on additional cab roof chassis bracket

Install branch guard for laser & beacon protection

Option add: \$26,980.00 ea.

HQO005326

Base Attachment #1

Install Skid-mounted Crysteel 14' Select Stainless Steel Dump Body including the following:

168" length, 58" front height, 36" side height, 42" rear height, 84" inside width (10.8-12.7 cu yd capacity)

Single panel, pressed-in horizontal side braces

7-gauge 201 stainless steel front, sides and rear pillars

1/4" AR450 floor

18" wide rear pillar

9-panel tailgate design constructed of 7-gauge type 201 stainless steel

Tailgate finger latches and pivot plate are stainless steel construction

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8" floor-to-sides radius
9" cabshield constructed of 10-gauge type 201 stainless steel
Install 8" hardwood sideboards
Install side-mounted ladder, fold-down on driverside rear
Install two (2) shovel spring-paddle holders, one on each side of dump
Install banjo-style chain holders on tailgate
Install 12" stainless steel asphalt apron spillshield, bolt-on
Single-acting "pancake-style" air cylinder for air tailgate with stainless steel coupler mounted at rear

Install Custom Lighting including the following:

2-hole tapered stainless steel light boxes mounted at rear pillar posts
Two (2) SoundOff LED nForce (mo. ENFSLSRV12) amber/green flashers
Two (2) SoundOff LED stop/turn/taillights mounted in the middle holes
LED body marker lights

Install Roll-Rite Electric 6400 Tarp System including the following:

Plug in at the back driver side for clearance when dumping Mesh-type tarp material
Tarp housing mounted on top of cabshield
Tarp arms mounted center of the dump on top rail with elbows

Install SwapLoader skid assembly for model SL-412 including the following:

Front A-frame and longsills for body mounting, A-frame lift bar set at 54"
Skid with rear heavy-duty 6" roller drums, painted Black, mild steel construction

Paint Dump underbody and attaching hardware painted Black

Base Attachment #1 installed pricing: \$41,743.00 ea.

HQ0005333

Base Attachment #2

Install Skid-mounted Monroe 14' MCV-168-84-56 Dual Auger V-box Spreader including the following:

10-gauge 201 stainless steel hopper (9.2 cubic yards)
Hopper length is 168", hopper width is 84" and hopper height is 56"
Stainless steel hopper and spinner construction
2' sloped front and doghouse for hook/loop
45-degree sloped sides with 2" double-crimped top edge
7-gauge 201 stainless steel longitudinals tied together with 3" formed channel cross-sills
Dual 7" auger conveyor system with planetary gearbox drive system
Integral speed sensor in one auger motor
Inverted-V installed over augers; 201 stainless
Auger units include a top-grate kit with safety lock-down provisions
Bolt-down top screens with center H-beam installed, Galvanized
Stainless steel front spillshield, installed with fabricated doghouse cover plate
Stainless steel fold-down ladder, side-mounted at front, driverside
20" directional spinner assembly with poly disc, hydraulic cylinder all necessary plumbing to the rear with stainless steel hydraulic disconnects and cab controls
Stainless steel hydraulic pipe kit for augers/spinner/pre-wet/return, installed and plumbed to the left front corner of the body with jumper hoses and stainless steel couplers
Wire sensors to with WP electrical disconnects to the front of the body with electrical connections

Install Monroe Pre-Wet System including the following:

7 GPM closed-loop pre-wet system, Dickey-john flow meter (no hydraulic valve)
Enclosure mounting kit
Twin 125-gallon tanks (250-gallon total capacity) with stainless steel brackets
Remote vent kit for liquid tanks
Bulk fill 3" female, flusher kit & crossover hose kit

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Pre-wet spray tube installed in auger trough

Install all necessary supports and brackets

Install stainless steel pipe kit from the rear of the spreader to the front of the spreader and equip with stainless couplers for the auger, spinner and pre-wet circuits

Install Custom Lighting & Electrical including the following:

Install two (2) stainless steel 2-hole light boxes mounted at rear including:

Two (2) SoundOff nForce (mo. ENFSLSRV12) green/amber LED flashers & two (2) STT lights
LED marker lights

Install Betts junction box at the rear of the body

Lights wired to junction box and wiring extended to the left front corner for hook up with a plug

Install SwapLoader skid assembly for model SL-412 including the following:

Front A-frame and longsills for body mounting, A-frame lift bar set at 54"

Skid with rear heavy-duty roller drums on long legs, hot-dipped galvanized

Install ½ poly between V-box and SwapLoader skid

Long leg provides the ability to unload the V-box skid without tipping up the spinner

Base Attachment #2 installed pricing: \$61,348.00 ea.

HQO005336

Base Attachment #3

Install Skid-mounted Monroe 2,350-gallon Anti-Ice/Dust Control Tank Assembly including the following:

2,350-gallon polyethylene tank with a 1.9-rated specific gravity

Tank includes center wall baffle system

Three-lane, closed-loop, non-tiered plumbing kit

190 GPM centrifugal pump with hydraulic motor (Needs 12 GPM for proper operation)

Raven-type RFM-100 flow meter for anti-ice

Three-lane electric boom valves

Three-lane stainless steel wet booms with streamer nozzles; telescoping mount with winch

Wired-Rite three (3) switches mounted with Dickey-john controller for left, center and right boom control

2nd spray boom is 2" for dust control with separate boom valve for dust control

Includes 2" full-port electric ball valve, 2" hose, clamps, camlock coupler and 2" stainless spray boom

(15) 15 GPM fan nozzles and (2) arc-style spray pattern in boom ends rated at 30 GPM each

Plumb hydraulic circuit from rear to left front corner of skid for hookup and disconnect just behind cab

Wire boom valve circuit, flow meter circuit and lighting circuit from rear of skid to left front corner of the skid for hook up just behind the cab

Ball valve shutoff on the supply port

Bulk fill kit, 3" female

Raven-type RFM-200 flow meter for dust control

Install Betts Dri-seal junction box for wire termination and pigtail outlets

Install Reelcraft Stainless Steel Hose Reel (mos. D83000 OLS-S, S601026-75 & 3-HS1005) with 75' x ¾" hose & bumper stop including the following:

Additional 4-way bang-bang coil to valve stack so pump can operate independently from spreader system

Additional solenoid- and boom valve for hose reel

Install Wired-Rite switch for Hose Reel

Install double-check in pump circuit

Install weatherproof switch at the rear near the hose reel so the unit can be turned on outside at the rear

(This control circuit will allow the hose reel to be operated without the use of the controller. The system could be used for summer watering or could also be used for application of liquid de-icing materials to sidewalks in winter operations. Because it operates independently of the controller.)

Install Stainless Steel Light Boxes mounted at the rear of the body including the following:

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Two (2) 6" oval stainless steel lightboxes, one each side for SoundOff LED nForce (mo. ENFSLSRV12)
amber/green flashers & SoundOff STT lights
LED marker lights
Lights wired to a junction box with wiring extended to the left front corner for hook up with a plug

Install SwapLoader skid assembly for model SL-412 including the following:

Front A-frame and longsills for body mounting, A-frame lift bar set at 54"
Skid with rear heavy-duty roller drums, hot-dip galvanized steel construction

Base Attachment #3 installed pricing: \$46,110.00 ea.

Chassis requirements to be confirmed at time of order:

Western Star 47X, Cummins X12, Allison 4500
CT: 138"
Highest ground clearance
Three (3) batteries mounted driverside as far aft as possible
SCR and DPF mounted back of cab
13-gallon DEF tank driverside behind front fender
Front of engine PTO
Air tanks mounted between the frame rails
Tractor package pre-wiring to the rear for air & electric brake controller
30K-063 150 AMP service between seats with blunt cuts
Front frame extension
Delete OEM bumper
Temporary 60-gallon fuel tank positioned under driver's door
Stationary grille standard on Western Star 47X
Stainless steel cab brackets for beacons and wiring
Plow light/Headlight switch and related OEM wiring
6-pack programmable chassis switches

Exceptions:

Truck & Trailer Specialties, Inc. declares with the enclosed bid submittal that we do not comply with the Fair Living Wage proposal of the City of Ann Arbor as defined in Section 1:811-1:821 of Chapter 23 of Title I of the Code. Truck & Trailer Specialties, Inc. also declares that we do not comply with Chapter 112 of Title IX of the Code of the City of Ann Arbor and in particular the following Section 1:811-1:821 of Chapter 23 of Title I of the Code.

Truck & Trailer Specialties, Inc. does affirm that we do comply with both the minimum wage requirements as defined and governed by the State of Michigan as well as the non-discrimination laws as defined and governed by the State of Michigan.

Payment Terms: Net 30. Pricing effective for 30 days.

FOB: City of Ann Arbor

Delivery: 16-18 months ARO, depending on chassis arrival

Thank you for the opportunity to quote.

Respectfully submitted by,
Jon Luea/Brian Bouwman