

SPECIFICATION

Description

Price Level

WESTERN STAR 4700 PRL-23T (EFF:01/21/20)

Data Version

SPECPRO21 DATA RELEASE VER 005

Vehicle Configuration

4700 SET-BACK FRONT AXLE CHASSIS
2021 MODEL YEAR SPECIFIED
SET BACK AXLE - TRUCK
STRAIGHT TRUCK PROVISION, NON-TOWING
LH PRIMARY STEERING LOCATION

General Service

TRUCK CONFIGURATION
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)
UTILITY/REPAIR/MAINTENANCE SERVICE
GOVERNMENT BUSINESS SEGMENT
FIXED LOAD COMMODITY
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
WESTERN STAR VOCATIONAL WARRANTY
EXPECTED FRONT AXLE(S) LOAD : 22000.0 lbs
EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs
EXPECTED GROSS VEHICLE WEIGHT CAPACITY

Truck Service

ROLL OFF/ROLL ON BODY

Engine

DETROIT DD13 12.8L 505 HP @ 1625 RPM, 1900 GOV RPM, 1850 LB/FT @ 975 RPM

Electronic Parameters

65 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT, WITH AUTO RESUME AFTER SHIFT
1650 RPM/18 MPH LIMIT FOR LOW GEARS, 1650 RPM/44 MPH LIMIT FOR MIDDLE GEARS, 1650 RPM/45 MPH LIMIT FOR HIGH GEARS
5 MINUTES IDLE SHUTDOWN WITH CLUTCH AND SERVICE BRAKE OVERRIDE
PTO MODE ENGINE RPM LIMIT - 900 RPM
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED OR PARK BRAKE NOT APPLIED
PTO RPM WITH CRUISE SET SWITCH - 900 RPM
PTO RPM WITH CRUISE RESUME SWITCH - 900 RPM
PTO MODE RPM INCREMENT - 25 RPM
ONE REMOTE PTO SPEED
PTO SPEED 1 SETTING - 900 RPM
SOFT CRUISE CONTROL ENABLED
PTO MINIMUM RPM - 900
TEMPERATURE OVERRIDE BELOW 20 DEGREES AND ABOVE 70 DEGREES AMBIENT TEMPERATURE
ENABLE AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE

Engine Equipment

2016-2019 ONBOARD DIAGNOSTICS/2010
EPA/CARB/FINAL GHG17 CONFIGURATION

2008 CARB EMISSION CERTIFICATION - CLEAN
IDLE (INCLUDES 6X4 INCH LABEL ON LOWER
FORWARD CORNER OF DRIVER DOOR)

STANDARD OIL PAN

ENGINE MOUNTED OIL CHECK AND FILL

ONE PIECE VALVE COVER

SIDE OF HOOD AIR INTAKE WITH DONALDSON
HIGH CAPACITY AIR CLEANER WITH Safety
ELEMENT, FIREWALL MOUNTED

DR 12V 160 AMP 28-SI QUADRAMOUNT PAD
ALTERNATOR WITH REMOTE BATTERY VOLT
SENSE

(4) DTNA GENUINE, FLOODED STARTING AND
CYCLING, MIN 2800CCA, 760RC, THREADED
STUD BATTERIES

BATTERY BOX WITH ALUMINUM COVER
MOUNTED LONG SIDE TO RAIL
SINGLE BATTERY BOX FRAME MOUNTED LH
SIDE BACK OF CAB

WIRE GROUND RETURN FOR BATTERY
CABLES WITH ADDITIONAL FRAME GROUND
RETURN

NON-POLISHED BATTERY BOX COVER

POSITIVE LOAD DISCONNECT WITH DASH
MOUNTED CONTROL SWITCH WITH LOCKING
PROVISION

LOW VOLTAGE BATTERY DISCONNECT AT
12.3 VOLTS FOR ISOLATED CIRCUITS WITH
LOCAL ALARM

EATON FULLER ECA CLUTCH

ZERK FITTING WITH EXTENSION HOSE AT
CLUTCH RELEASE BEARING

ELECTRONIC CLUTCH CONTROL

BW MODEL BA-921 19.0 CFM SINGLE
CYLINDER AIR COMPRESSOR WITH Safety
VALVE

AIR COMPRESSOR DISCHARGE LINE

ELECTRONIC ENGINE INTEGRAL SHUTDOWN
PROTECTION SYSTEM

JACOBS COMPRESSION BRAKE

RH OUTBOARD UNDER STEP MOUNTED
HORIZONTAL AFTERTREATMENT SYSTEM
ASSEMBLY WITH RH B-PILLAR MOUNTED
VERTICAL TAILPIPE

ENGINE AFTERTREATMENT DEVICE,
AUTOMATIC OVER THE ROAD REGENERATION
AND DASH MOUNTED REGENERATION
REQUEST SWITCH

11 FOOT 06 INCH (138 INCH+0/-5.9 INCH)
EXHAUST SYSTEM HEIGHT

STANDARD CURVE BRIGHT UPPER STACK(S)

RH CURVED VERTICAL TAILPIPE B-PILLAR
MOUNTED ROUTED FROM STEP

13 GALLON DIESEL EXHAUST FLUID TANK

100 PERCENT DIESEL EXHAUST FLUID FILL

STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAIPIPE SHIELD
HORTON 2-SPEED DRIVEMASTER ADVANTAGE POLAREXTREME FAN DRIVE
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED
DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR
FULL FLOW OIL FILTER
1500 SQUARE INCH ALUMINUM RADIATOR MOUNTING FOR FIREWALL MOUNTED SURGE TANK
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE
LOWER RADIATOR GUARD
PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER
PHILLIPS-TEMRO 300 WATT/115 VOLT OIL PREHEATER
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR
ALUMINUM FLYWHEEL HOUSING
MITSUBISHI 12V MOD 3.175-DP60 STARTER WITH INTEGRATED MAGNETIC SWITCH

Transmission

EATON FULLER FO-18E318B-MXP ULTRASHIFT PLUS TRANSMISSION

Transmission Equipment

NO REAR PTO TRANSMISSION RANGE
BODY LIGHTING POWER WIRED TO CUSTOMER INTERFACE CONNECTOR WITH SEPARATE STOP/TURN
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED
ALUMINUM CLUTCH HOUSING
CUSTOMER INSTALLED CHELSEA 489 SERIES PTO
PTO MOUNTING, BOTTOM OF MAIN TRANSMISSION
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK
SYNTHETIC TRANSMISSION LUBE

Front Axle and Equipment

MFS-20-133A 22,000# FL1 71.0 INCH KPI/3.74
INCH DROP SINGLE FRONT AXLE

MERITOR 16.5X6 Q+ HIGH CAPACITY CAST
SPIDER CAM FRONT BRAKES, DOUBLE
ANCHOR, FABRICATED SHOES

NON-ASBESTOS FRONT BRAKE LINING

CONMET CAST IRON FRONT BRAKE DRUMS

FRONT OIL SEALS

VENTED FRONT HUB CAPS WITH WINDOW,
CENTER AND SIDE PLUGS - OIL

STANDARD SPINDLE NUTS FOR ALL AXLES

MERITOR AUTOMATIC FRONT SLACK
ADJUSTERS

STANDARD KING PIN BUSHINGS

TRW TAS-85 POWER STEERING WITH RCH45
AUXILIARY GEAR

POWER STEERING PUMP

4 QUART POWER STEERING RESERVOIR

OIL/AIR POWER STEERING COOLER

SYNTHETIC 50W FRONT AXLE LUBE

Front Suspension

23,000# FLAT LEAF FRONT SUSPENSION

THREADED SPRING PINS AND BUSHINGS -
FRONT SUSPENSION

Rear Axle and Equipment

RT-46-160P 46,000# R-SERIES TANDEM REAR
AXLE

4.10 REAR AXLE RATIO

IRON REAR AXLE CARRIER WITH STANDARD
AXLE HOUSING

RPL25 MERITOR MAIN DRIVELINE

RPL20 MERITOR INTERAXLE DRIVELINE

DRIVER CONTROLLED TRACTION
DIFFERENTIAL - BOTH TANDEM REAR AXLES

(1) INTERAXLE LOCK VALVE, (1) DRIVER
CONTROLLED DIFFERENTIAL LOCK FORWARD-
REAR AND REAR-REAR AXLE VALVE

INDICATOR LIGHT FOR EACH INTERAXLE
LOCKOUT SWITCH

INDICATOR LIGHT FOR EACH DRIVER
CONTROLLED TRACTION DEVICE SWITCH

MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR
BRAKES, DOUBLE ANCHOR, FABRICATED
SHOES

NON-ASBESTOS REAR BRAKE LINING

ASPHALT SPREADER CLEARANCE REAR
BRAKE GEOMETRY

CONMET CAST IRON REAR BRAKE DRUMS

REAR OIL SEALS

WABCO TRISTOP D LONGSTROKE 2-DRIVE
AXLE SPRING PARKING CHAMBERS

HALDEX AUTOMATIC REAR SLACK ADJUSTERS

SYNTHETIC 75W-90 REAR AXLE LUBE

Rear Suspension

CHALMERS 854 46,000# HIGH STABILITY REAR
SUSPENSION WITH #29 CAN
CHALMERS 800 SERIES - HIGH RIDE HEIGHT
54 INCH AXLE SPACING
FORE/AFT AND TRANSVERSE CONTROL RODS
REAR SHOCK ABSORBERS - TWO AXLES
(TANDEM)

Brake System

WABCO 4S/4M ABS WITH HILL START AID AND
TRACTION CONTROL, WITH ATC OFF-ROAD
SWITCH
REINFORCED NYLON, FABRIC BRAID AND WIRE
BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,
NO REAR PROPORTIONING VALVE
BW AD-9SI BRAKE LINE AIR DRYER WITH
HEATER
AIR DRYER MOUNTED INBOARD ON LH RAIL
ALUMINUM AIR BRAKE RESERVOIRS

Trailer Connections

NO TRAILER RECEPTACLE BRACKET

Wheelbase & Frame

6050MM (238 INCH) WHEELBASE
1/2X3.64X11-7/8 INCH STEEL FRAME
(12.7MMX301.6MM/0.5X11.88 INCH) 120KSI
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
REINFORCEMENT
1875MM (74 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 71 INCH TO 80
INCH
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :
174.88 in
CALCULATED EFFECTIVE BACK OF CAB TO
REAR SUSPENSION C/L (CA) : 171.88 in
CALC'D FRAME LENGTH - OVERALL : 342.11
FRAME HEIGHT TOP FRONT UNLADEN : 44.48 in
FRAME HEIGHT TOP FRONT LADEN : 40.94 in
FRAME HEIGHT TOP REAR UNLADEN : 45.48 in
FRAME HEIGHT TOP REAR LADEN : 42.45 in
CALCULATED FRAME SPACE LH SIDE : 47.18 in
CALCULATED FRAME SPACE RH SIDE : 233.4 in
CALC'D SPACE AVAILABLE FOR DECKPLATE :
174.69 in
SQUARE END OF FRAME
STANDARD WEIGHT ENGINE CROSSMEMBER
STANDARD CROSSMEMBER BACK OF
TRANSMISSION
STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
STANDARD SUSPENSION CROSSMEMBER
STANDARD WEIGHT REAR SUSPENSION
CROSSMEMBER

Chassis Equipment

14 INCH CHROMED STEEL BUMPER
REMOVABLE FRONT TOW HOOKS STORED ON
THE CHASSIS FRAME
BUMPER MOUNTING FOR SINGLE LICENSE
PLATE
FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS
GRADE 8 THREADED HEX HEADED FRAME
FASTENERS
EXTERIOR HARNESSES WRAPPED IN
ABRASION TAPE

Fuel Tanks

125 GALLON/473 LITER ALUMINUM FUEL TANK -
LH
25 INCH DIAMETER FUEL TANK(S)
PLAIN ALUMINUM/PAINTED STEEL
FUEL/HYDRAULIC TANK(S) WITH POLISHED
STAINLESS STEEL BANDS
FUEL TANK(S) FORWARD
PLAIN STEP FINISH
FUEL TANK CAP(S)
EQUIFLO INBOARD FUEL SYSTEM
HIGH TEMPERATURE REINFORCED NYLON
FUEL LINE
FUEL COOLER

Tires

MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL
FRONT TIRES
CONTINENTAL HDR2 11R22.5 16 PLY RADIAL
REAR TIRES

Hubs

CONMET PRESET PLUS PREMIUM IRON FRONT
HUBS
CONMET PRESET PLUS PREMIUM IRON REAR
HUBS

Wheels

ALCOA LVL ONE 82462X 22.5X12.25 10-HUB
PILOT 4.68 INSET 10-HAND ALUMINUM DISC
FRONT WHEELS
ALCOA LVL ONE 88267X 22.5X8.25 10-HUB
PILOT ALUMINUM DISC REAR WHEELS
NO FRONT AXLE WHEEL/HUB COVER
FRONT WHEEL MOUNTING NUTS
REAR WHEEL MOUNTING NUTS
NYLON WHEEL GUARDS FRONT AND REAR
ALL INTERFACES

Cab Exterior

110 INCH BBC STEEL CONVENTIONAL CAB
WESTERN STAR PAINTED ALUMINUM CAB
SKIRT
AIR CAB MOUNTS WITH CHECK VALVE
RACEWAY WITHOUT MISCELLANEOUS CUSTOM
CAB REQUIREMENTS
NONREMOVABLE BUGSCREEN MOUNTED
BEHIND GRILLE
FRONT FENDERS
2 INCH FENDER EXTENSIONS
LH AND RH EXTERIOR GRAB HANDLES WITH
RUBBER INSERTS AND RH INTERIOR GRAB
HANDLE MOUNTED TO A POST
STATIONARY BRIGHT FINISH GRILLE
CHROME HOOD MOUNTED AIR INTAKE GRILLE
GALVANEALD STEEL SEVERE SERVICE CAB
FIBERGLASS HOOD
HOOD LINER INSULATION WITH SINGLE
FIREWALL INSULATION
DUAL HADLEY 22 INCH CHROMED ROUND AIR
HORNS
DUAL ELECTRIC HORNS
DUAL HORN SHIELDS
DOORS AND IGNITION KEYED THE SAME
REAR LICENSE PLATE MOUNT END OF FRAME
SINGLE RECTANGULAR H4 HALOGEN
HEADLIGHTS WITH BRIGHT BEZELS
LED MARKER LIGHTS INTEGRAL WITH SUN
VISOR
PERLUX 500SRS RECTANGULAR FOG LIGHTS
IN BUMPER WITH CLEAR LENS AND BLACK
HOUSING
DAYTIME RUNNING LIGHTS
INTEGRAL STOP/TAIL/BACKUP LIGHTS
STANDARD FRONT TURN SIGNAL LAMPS
(2) FLUSH LED UTILITY LIGHTS MOUNTED BACK
OF CAB/SLEEPER
DUAL WEST COAST STAINLESS STEEL HEATED
MIRRORS WITH LIGHTS AND LH AND RH
REMOTE
DOOR MOUNTED MIRRORS
102 INCH EQUIPMENT WIDTH
LH AND RH 8 INCH STAINLESS STEEL CONVEX
MIRRORS MOUNTED BELOW PRIMARY
MIRRORS
RH DOWN VIEW MIRROR
RH AND LH 8 INCH STAINLESS STEEL FENDER
MOUNTED CONVEX MIRRORS WITH TRIPOD
BRACKETS
STANDARD SIDE/REAR REFLECTORS
ELECTRIC DOOR LOCKS, MECHANICAL KEY
TUMBLER
FIBERGLASS EXTERIOR SUN VISOR
17.5X35 INCH TINTED REAR WINDOW
TINTED DOOR GLASS
RH AND LH ELECTRIC POWERED WINDOWS
2-PIECE TINTED CURVED GASKET MOUNTED
WINDSHIELD
2 GALLON WINDSHIELD WASHER RESERVOIR
WITH FLUID LEVEL INDICATOR, MOUNTED
UNDER CAB, WITH REMOTE FILL

PRAIRIE BUCKSKIN VINYL PREMIUM INTERIOR
TAN HARD TRIM
BASE LEFT HAND DOOR TRIM
BASE RIGHT HAND DOOR TRIM
BLACK MATS WITH SINGLE INSULATION
ASH CUP AND LIGHTER
FORWARD ROOF MOUNTED CONSOLE
LH AND RH DOOR MAP POCKETS
(2) COAT HOOKS ON BACKWALL OF CAB
(1) DOUBLE CUP HOLDER WITH CELL PHONE
HOLDER LH OR RH DASH

TWO-TONE CHARCOAL UPPER/BUCK TAN
LOWER SOFT TOUCH WING DASH WITH
BLACK DRIVER SIDE COSMETIC UNDER DASH
COVER

HEATER, DEFROSTER AND AIR CONDITIONER
WITH CONSTANT TEMPERATURE CONTROL
AND COSMETIC COVER

HVAC DUCTING WITH FOAM MAIN FRESH AIR
FILTER

MAIN HVAC CONTROLS WITH RECIRCULATION
SWITCH

STANDARD HEATER PLUMBING

VALEO HEAVY DUTY A/C REFRIGERANT
COMPRESSOR

RADIATOR MOUNTED AIR CONDITIONER
CONDENSER

BINARY CONTROL, R-134A

ADDITIONAL CAB SIDEWALL INSULATION

AUTOMATIC SELF-RESET CIRCUIT
BREAKERS/FUSES IN DASH POWER
DISTRIBUTION BOXES AND FUSES IN
AUXILIARY POWER DISTRIBUTION BOXES

DOOR ACTIVATED DOME LIGHT, UNDER DASH
LIGHT AND LH AND RH DOOR MOUNTED
COURTESY LIGHTS

LH AND RH ELECTRIC DOOR LOCKS

ELITE HIGH BACK AIR SUSPENSION DRIVER
SEAT WITH HEAT, 3 CHAMBER AIR LUMBAR,
INTEGRATED CUSHION EXTENSION,
FORWARD AND REAR CUSHION TILT AND
ADJUSTABLE SHOCK

ELITE HIGH BACK AIR SUSPENSION
PASSENGER SEAT WITH HEAT, 3 CHAMBER
AIR LUMBAR, INTEGRATED CUSHION
EXTENSION, FORWARD AND REAR CUSHION
TILT AND ADJUSTABLE SHOCK

BLACK MORDURA CLOTH DRIVER AND
PASSENGER SEAT COVER

3 POINT DRIVER AND PASSENGER SEAT BELT
RETRACTORS

ADJUSTABLE TILT AND TELESCOPING
STEERING COLUMN

4-SPOKE 18 INCH (450MM) LEATHER
WRAPPED STEERING WHEEL WITH SWITCHES

DRIVER AND PASSENGER INTERIOR SUN
VISORS

NON-ADJUSTABLE SUSPENDED PEDALS
ELECTRONIC FOOT ACCELERATOR
BRIGHT ARGENT FINISH GAUGE BEZELS
BLACK VINYL DRIVER INSTRUMENT PANEL
BLACK VINYL CENTER INSTRUMENT PANEL
LOW AIR PRESSURE INDICATOR LIGHT AND
AUDIBLE ALARM
(1) SINGLE BRAKE APPLICATION AIR GAUGE
2 INCH PRIMARY AND SECONDARY AIR
PRESSURE GAUGES
FILTERMINDER DASH MOUNTED AIR
RESTRICTION GAUGE
97 DB BACKUP ALARM
ELECTRONIC CRUISE CONTROL WITH
CONTROLS ON STEERING WHEEL SPOKES
KEY OPERATED IGNITION SWITCH AND
INTEGRAL START POSITION; 4 POSITION
OFF/RUN/START/ACCESSORY
ICU4ME DRIVER MESSAGE CENTER WITH
GRAPHICAL DISPLAY, BLACK FACE GAUGES,
DIAGNOSTICS AND DATA LINKED
HEAVY DUTY ONBOARD DIAGNOSTICS
INTERFACE CONNECTOR LOCATED BELOW LH
DASH
2 INCH ELECTRIC FUEL GAUGE
FUEL FILTER RESTRICTION INDICATOR
EMISSIONS LIMITED IDLE ADJUST
CUSTOMER INTERFACE CONNECTOR LOCATED
BETWEEN SEATS WITH BLUNTCUTS
ELECTRICAL ENGINE COOLANT TEMPERATURE
GAUGE
2 INCH TRANSMISSION OIL TEMPERATURE
GAUGE
ELECTRONIC OUTSIDE TEMPERATURE
SENSOR DISPLAY IN DRIVER MESSAGE
CENTER
(1) DASH MOUNTED PTO SWITCH WITH
INDICATOR LAMP
ELECTRIC ENGINE OIL PRESSURE GAUGE
AM/FM/WB WORLD TUNER RADIO WITH
AUXILIARY INPUT, J1939
ROOF/OVERHEAD CONSOLE MOUNTED RADIO

(4) RADIO SPEAKERS IN CAB

POWER AND GROUND WIRING FOR CB RADIO
IN OVERHEAD CONSOLE

ROOF/OVERHEAD CONSOLE CB RADIO
PROVISION

MULTI-BAND AM/FM/WB/CB LH MIRROR
MOUNTED ANTENNA SYSTEM

UHF/VHF RADIO POWER/GROUND HARNESS TO
OVERHEAD INSTRUMENT PANEL

ELECTRONIC MPH SPEEDOMETER WITH
SECONDARY KPH SCALE, WITH ODOMETER

STANDARD VEHICLE SPEED SENSOR

ELECTRONIC 3000 RPM TACHOMETER

VT-HU CONNECTIVITY PLATFORM HARDWARE

2 YEARS DETROIT CONNECT BASE PACKAGE
(VIRTUAL TECHNICIAN, DETROIT CONNECT
PORTAL ACCESS) FOR VT-HU CONNECTIVITY
PLATFORM

IDLE SHUTDOWN OVERRIDE, DDEC 5/6
AMBIENT AIR TEMPERATURE SENSOR

FOUR EXTRA SWITCHES IN DASH

HARDWIRE SWITCH #1, ON/OFF LATCHING, 30
AMPS IGNITION WIRED TO CUSTOMER
INTERFACE CONNECTOR

HARDWIRE SWITCH #2, ON/OFF LATCHING, 30
AMPS IGNITION WIRED TO CUSTOMER
INTERFACE CONNECTOR

HARDWIRE SWITCH #3, ON/OFF LATCHING, 20
AMPS IGNITION WIRED TO CUSTOMER
INTERFACE CONNECTOR

HARDWIRE SWITCH #4, ON/OFF LATCHING, 20
AMPS IGNITION WIRED TO CUSTOMER
INTERFACE CONNECTOR

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH
DRIVER DISPLAY

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR
WITH DELAY

CAB/TRAILER MARKER LIGHT SWITCH WITH
SEPARATE HEADLIGHT SWITCH WITH
HEADLIGHT/MARKER LIGHT INTERRUPTER
SWITCHES ON STEERING WHEEL

ONE VALVE PARKING BRAKE SYSTEM WITH
DASH VALVE CONTROL AUTO NEUTRAL AND
WARNING INDICATOR

MANUAL TURN SIGNAL SWITCH, HEADLAMP
HIGH/LOW AND FLASH,
WASH/WIPE/INTERMITTENT

PACIFIC INSIGHT ELECTRONIC FLASHER

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR: WHITE
CAB INTERIOR PAINTED SAME AS CAB COLOR
BLACK, HIGH SOLIDS POLYURETHANE
CHASSIS PAINT
SUNVISOR PAINTED SAME AS CAB COLOR A

Certification / Compliance

U.S. FMVSS CERTIFICATION, EXCEPT SALES
CABS AND GLIDER KITS

Secondary Factory Options

NO CUSTOMER FURNISHED MATERIAL
SPECIFIED

DEALER HAS BEEN ADVISED OF AND
ACCEPTED RESPONSIBILITY FOR
MODIFICATIONS DUE TO POSSIBLE
PTO/CHASSIS INTERFERENCE

Raw Performance Data

CALC'D FRAME LENGTH - OVERALL : 342.11

CALCULATED EFFECTIVE BACK OF CAB TO
REAR SUSPENSION C/L (CA) : 171.88 in

CALC'D SPACE AVAILABLE FOR DECKPLATE :
174.69 in

HEAVY DUTY SERIES

50,000 - 65,000 LBS. LIFT CAPACITY



- **4 year warranty**
- **Sliding jib**
- **Slide through body locks**
- **Large beveled rear rollers**
- **Dual pivot rear section**
- **Dual lift cylinders**
- **Nylatron slide pads**
- **Low pressure hydraulics**
- **Integral dual counter balance valves**
- **Designed and built in the USA**

HEAVY DUTY SERIES

SWAPLOADER®

U.S.A. LTD.

General Contractors - Landscapers - Lumber Yards - Municipals - Governmental - Rental Yards - Roofers - Waste Haulers

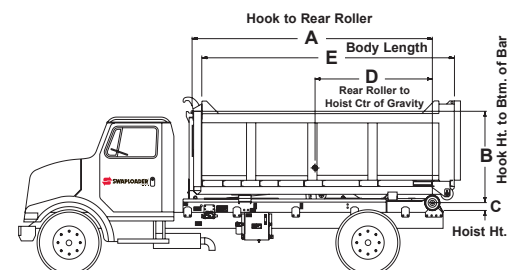
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MODEL DESCRIPTION	SL-518	SL-520	SL-650		
DUMP CAPACITY (INCLUDING CONTAINER)	54,000 lb	50,000 lb	65,000 lb		
DUMP ANGLE	57°	57°	54°		
LIFT CAPACITY (INCLUDING CONTAINER)	53,000 lb	50,000 lb	65,000 lb		
HOIST WEIGHT	FIXED	6,600 lb	7,055 lb	8,050 lb	
	ADJ.	6,840 lb	7,310 lb	N/A	
GENERAL DIMENSIONS (SEE DIAGRAM)	HOOK TO REAR ROLLER (DIM. A)	201.0"	222.75"	226.5"	
	HOOK HEIGHT (DIM. B)	FIXED	61.75"	61.75"	61.75"
		ADJ.	61.75" / 53.88"	61.75" / 53.88"	N/A
	HOIST HEIGHT (DIM. C)	12"	12.5"	13"	
	HOIST CG (DIM. D)	108.0"	118.0"	125.0"	
	BODY LENGTH (DIM. E) ²	17' - 22'	19' - 24'	20' - 24'	
	OPTIMUM BODY LENGTHS	18' - 20'	20' - 22' ²	20' - 22'	
BODY LONGSILL WIDTH ³	40.5" / 41.63"	40.5" / 41.63"	40.5" / 41.63"		
HYDRAULIC SYSTEMS	HYDRAULIC PUMP TYPE (CID)	Gear (4.46)	Gear (4.46)	Gear (4.46)	
	FLOW @ PUMP RPM ⁶	26.0 GPM @ 1,500 RPM	26.0 GPM @ 1,500 RPM	26.0 GPM @ 1,500 RPM	
	RELIEF PRESSURE	3,500 PSI	3,500 PSI	3,500 PSI	
	HYDRAULIC RESVR.	30 gal	30 gal	30 gal	
LIFT CYLINDER ¹	TYPE	ALL MODELS INCORPORATE TWIN, DOUBLE ACTING CYLINDER WITH A DUAL BUILT-IN COUNTERBALANCE VALVES.			
	QUANTITY	2	2	2	
	BORE	Ø 7"	Ø 7"	Ø 7.5"	
	STROKE	74"	82"	82"	
JIB CYLINDER	TYPE	ALL MODELS INCORPORATE A SINGLE, DOUBLE ACTING CYLINDER WITH A SINGLE BUILT-IN COUNTERBALANCE VALVES.			
	QUANTITY	1	1	1	
	BORE	Ø 4.5"	Ø 4.5"	Ø 4.5"	
	STROKE	48"	52"	52"	
TRUCK SPECS (RECOMMENDED)	GVW RANGE	50,000 lb or greater	50,000 lb or greater	55,000 lb or greater	
	CAB-AXLE DIM. (SINGLE AXLE) ⁴	N/A	N/A	N/A	
	CAB-TRUNION DIM. (TANDEM AXLE) ⁴	165" - 174"	176" - 190"	172" - 190"	
	TRUCK FRAME RBM	2,500,000 in lb	2,500,000 in lb	2,750,000 in lb	
	CLEAR FRAME RAIL ⁵	225"	245"	249"	
	FRAME HEIGHT	up to 45"	up to 45"	up to 45"	
PTO SPECS (RECOMMENDED)	PUMP MOUNT ⁷	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt	Direct Mount SAE B, 4 Bolt	
	TORQUE REQUIRED	230 ft-lbf	230 ft-lbf	230 ft-lbf	

- 4 year warranty
- Sliding jib
- Slide through body locks
- Large beveled rear rollers
- Dual pivot rear section
- Rugged main frame
- Dual lift cylinders
- Nylatron slide pads
- Low pressure hydraulics
- Rigorous 4 year test cycle
- Integral Dual Counter Balance Valves
- Designed and Built in the USA

- 1 Jib Lock out valve to prevent jib operation in dump mode standard.
- 2 Hoist with longer bodies may not conform with I.C.C. bumper regulations or may not achieve maximum dump angle depending on truck chassis height. Contact your SwapLoader distributor for more information.
- 3 Maximum outside to outside longsill width.
- 4 Optimum CA/CT dimension will be influenced by type of loads carried and turning radius requirements.
- 5 Clear frame Dim given is the overall length of hoist plus 5" for cab clearance and rear light bar mounting. Additional frame length may be necessary for other accessories such as cab guard, tarper, exhaust system, etc.
- 6 Pump RPM and Flow are dependent on engine RPM and PTO ratio.
- 7 PTO/Pump rotation as determined by transmission.
- 8 Polished Nitrided Cylinder Rod.



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Your authorized SwapLoader dealer

Ask about the wide range of available SwapLoader models

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