

W31962
GM VORTEC 8100 V8 8.1 LITER GAS ENGINE
MARCH 25, 2009

WORKHORSE (GVW RATING 19,500 LB) CHASSIS 190" WHEELBASE

SELECTED BODY OPTIONS

- RAILS CONFIGURED FOR 17 - 19 FT BODY (190" WB)

AXLES

- AXLE REAR 13,000 LB
- REAR AXLE 4.88 RATIO
- DUAL REAR WHEELS

SUSPENSION

- SUSPENSION FRONT 6,500 LB, I-BEAM AXLE
- SUSPENSION REAR 13,000 LB

ENGINE AND TRANSMISSION

- GM VORTEC 8100 V8 8.1 LITER GAS ENGINE
- ALLISON 1000HS/RDS ELECTRONIC 5-SPEED TRANSMISSION
- FEDERAL EMISSIONS, REQUIRED FOR ALL VEHICLES TO BE REGISTERED IN FEDERAL EMISSIONS AREAS
- EMISSION SYSTEM FEDERAL, TIER 2
- EVAPORATIVE SYSTEM EMISSION
- REGISTRATION EMISSION, CERTIFICATION, FIFTY STATE
- ENGINE POWER RATING 310 HP @ 3750 RPM

WHEELS AND TIRES

- WHEEL COLOR GRAY
- TIRE FRONT 245/70R19.5 /F HWY
- TIRE BRAND FRONT - GOODYEAR
- TIRE REAR 245/70R19.5 /F HWY
- TIRE BRAND REAR - GOODYEAR

BRAKES

- PWR, FRT&RR DISC, ANTLCK, 4SEN, 64 MM QUADRAULIC
- HAND APPLIED PARKING BRAKE
- TRANSMISSION MOUNTED DRUM TYPE SECURED WITH LOCK WASHERS & LOCTITE
- SIZE: 11 X 2.5 INCHES
-

DRIVESHAFT

- SPL70 DRIVESHAFTS (RE-LUBE)

BATTERY

- HEAVY DUTY BATTERY 750 CCA

- SINGLE GROUP 31 BATTERY

ALTERNATOR

- 145 AMP ALTERNATOR
- DELCO BRAND

STARTING SYSTEM

- DELCO 12 VOLT STARTER - SERIES 29 MT WITH OVER-RUNNING CLUTCH AND SOLENOID-CONTROLLED
- SLIDING PINION

STEERING

- POWER STEERING WITH DELPHI TILT COLUMN AND 4 SPOKE WHEEL
- 48-DEGREE WHEEL CUT ANGLE
- ZF VARIABLE RATIO STEERING GEAR
- ZF BELT-DRIVEN STEERING PUMP 2.24 GPM MIN FLOW / 4.22 GPM MAX FLOW
- 16.6 : 1.0 STEERING RATIO

FUEL SYSTEM

- FUEL TANK 151L, 40 GAL DEEP C/MNT

INSTRUMENTS

- GAUGES: ACTIA "SMART" INSTRUMENT CLUSTER WITH SPEEDOMETER, TACHOMETER, AND FUEL GAUGE PLUS DRIVER SELECTABLE LCD INFORMATION WITH DIGITAL READ OUT FOR ALL ENGINE FUNCTIONS AND VEHICLE OPERATING DATA
- NOTE: ALL GAUGES AND LIGHTS MOUNTED TO BE VISIBLE FROM DRIVER'S SEAT
- HORN: STANDARD 2-NOTE MOUNTED ON LH FIREWALL
- SPEEDOMETER: ACTIA 5 INCH DIAMETER ELECTRONIC (0-85 MPH)
- LIGHTS/WARNING: FRONT TURN SIGNALS, PARKING, HAZARD WARNING, PARK BRAKE ON, HIGH BEAM HEADLIGHTS, TURN SIGNAL INDICATORS, LOW CHARGE
- PROVISIONS DAYTIME RUNNING LAMPS
- CLEAN POWER SOURCE FOR HAND HELD COMPUTER
- PROVISIONS DAYTIME RUNNING LAMPS
- WIPER SYSTEM WINDSHIELD, PULSE
- CRUISE CONTROL AUTOMATIC, ELECTRONIC
- LED COMPATIBLE FLASHER MODULE
- NO KEY COLUMN
- 75 MPH SPEED LIMITER
- LEVER TRANS SHIFTER (REMOTE DA MT) W/PARK POS
- AIR INTAKE RESTRICTION INDICATOR

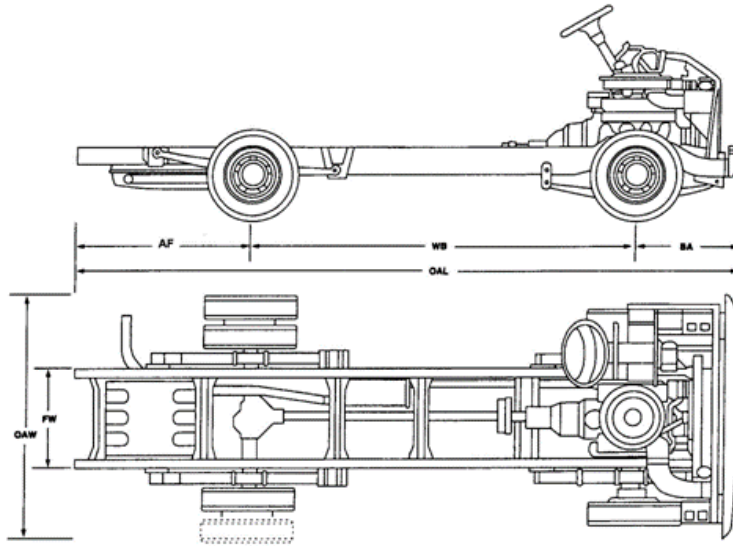
COUNTRY CODE

- UNITED STATES PROVISIONS

WARRANTY

- STANDARD LIMITED WARRANTY, CHASSIS: 3 YEARS - 36,000 MILES - INCLUDING 24 HOUR ROADSIDE ASSISTANCE
- STANDARD LIMITED WARRANTY, ALLISON TRANSMISSION: 3 YEARS - UNLIMITED MILES

VEHICLE DIMENSIONS



MODEL		W31962
WHEELBASE (in)	WB	190
OVERALL LENGTH (in)	OAL	321.11
OVERALL WIDTH (in) (SRW and DRW)	OAW	92.7
FACE BAR TO FRONT AXLE (in)	BA	34.21
REAR AXLE TO END OF FRAME (in)	AF	96.9

FRAME SPECIFICATIONS

MODEL	SIDE RAIL DIMENSIONS			SECTION MODULUS RAILS ONLY (in)	YIELD STRENGTH (PSI)	RBM OF FRAME	WIDTH OVER RAILS	
	WIDTH (in)	DEPTH H (in)	THICKNESS (in)				FRONT (in)	REAR (in)
W31962	3	9.625	0.25	10.13	50,000	506,500	40	34

FRONT AXLE SPECIFICATIONS

AXLE TYPE	Westport Mono-Beam Axle with double drop
CAPACITY	AXLE FRONT 6,500 LB (FP3)
KPI - KPI (in)	72
WHEEL TRACK (mm)	2,120.9
SPRING TRACK (mm)	988
KPI (°)	5.5
KNUCKLE	Regular spindle with bolt-on torque plate for mounting caliper.
WHEEL BEARINGS	Oil lubricated Timken FS taper roller bearings.
LUBRICANT	SAE 90 gear oil

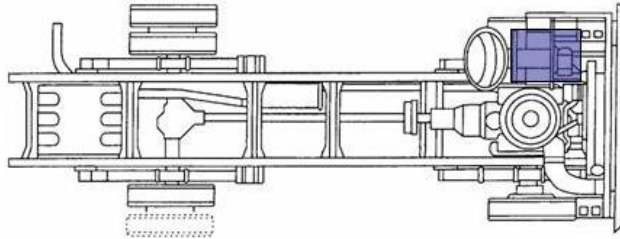
REAR AXLE SPECIFICATIONS

AXLE TYPE	Stabilride DANA S110
WHEEL CONFIGURATION	DUAL REAR WHEELS (R05)
CAPACITY	AXLE REAR 13,000 LB (GL5)
PINION & RING GEARS	HYPOID
DIFFERENTIAL TYPE W/BEARINGS	STANDARD TAPERED ROLLER

SUSPENSION SPECIFICATIONS

GVWR	GVW RATING 19,500 LB (C7Y)
REAR WHEELS	DUAL REAR WHEELS (R05)
FRONT AXLE CAPACITY	AXLE FRONT 6,500 LB (FP3)
FRONT SUSPENSION	SUSPENSION FRONT 6,500 LB, I-BEAM AXLE (FV3)
FRONT GAWR	6,500 LB
REAR AXLE CAPACITY	AXLE REAR 13,000 LB (GL5)
REAR SUSPENSION	SUSPENSION REAR 13,000 LB (GQ3)
REAR GAWR	13,000 LB

POWER STEERING SPECIFICATIONS



TYPE PUMP	ZF, INTEGRAL, ROTARY VANE	MOUNTING LH SIZE OF BLOCK	
W62	Driven by: Belt from Crankshaft Pulley	2.24 gpm Min. Flow Rate	4.22 gpm Max. Flow Rate

POWER BRAKE APPLICATIONS

4-WHEEL ANTI-LOCK, 4-WHEEL DISC BRAKES					PARK BRAKE TYPE	APPLY SYSTEM	
ROTOR SIZE: DIA. x TH. (in)	CALIPER PISTON DIA. (mm)	FACING CONTACT AREA/AXLE (sq. in)	PAD SIZE: LxWxTH (in)	SWEPT AREA/AXLE (sq. in)		BOOSTER TYPE	MASTER CYL. DIA. (in)
15.38 X 1.54	4 x 64 mm	73.56	(18.39) X 0.74 TH	392.4	TRANSMISSION-MOUNTED DRUM BRAKE	HYDRO MAX	2

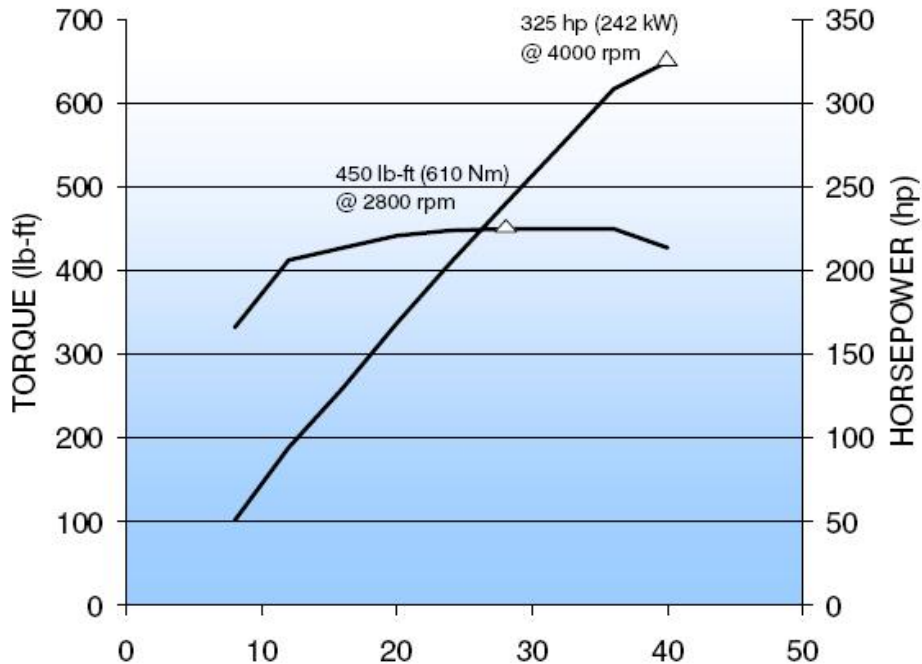
GM VORTEC 8.1L – V8



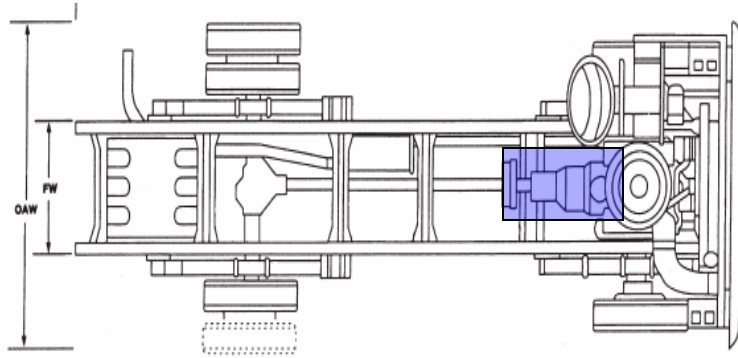
Vortec 8.1L V8
2008 (L18)

Engine type	4 Cycle
Service type	Naturally Aspirated
Engine model number	L18
Number of cylinders	8
Number of valves per cylinder	2
Configuration	V
Bore	107.95 mm
Stroke	111 mm
Displacement	8128cc (496 ci)
Compression ratio	9.1:1
Firing order	1 - 8 - 7 - 2 - 6 - 5 - 4 - 3
Rotational direction	Longitudinal
Fuel system	Sequential Fuel Injection
Net power @ rpm	310 hp @ 3,750 rpm
Peak torque @ rpm	455 lb-ft @ 3,200 rpm
Idle speed no-load rated	720 +/- 50 rpm
Speed full-load	4800 rpm
Exhaust	Single
Engine Vin code	G

2008 Vortec 8.1L V8 (L18) LRW option



ALLISON 1000HS AUTOMATIC TRANSMISSION



TRANSMISSION	AUTOMATIC 5-SPEED
MODEL	w/OVERDRIVE
RPO CODE	M74
GEAR RATIOS	
First	3.10
Second	1.81
Third	1.41
Fourth	1.00
Fifth	0.71
Reverse	-4.49
GEAR TYPE	Planetary
TORQUE CONVERTER	
Element Types	Pump/Stator/Turbine
Lock-up Clutch	Automatic
Model	TC-210 (w/8.1 1L)
Model	TC-211 (w/4.5 1L)
LUBRICANT TYPE	Transynd®
LUBRICANT CAPACITY	
Dry (Deep Pan):	17L (19 Qts.)
Refill	10L (11 Qts.)
MAX ENGINE TORQUE (lb.-ft.)	550
MAX GVW (lbs.)	19,500