

RFP – Police Rescue Equipment Vehicle

Addendum No. 1

Project Name:	Police Rescue Equipment Vehicle	Project No.:	RFP# 18-19-18
Prepared By:	Denisha Harris	Date:	January 28, 2019

General Questions, Clarifications & Requirements:

1. All doors must function with Ford remote keyless entry to include body. Each body door shall also lock with a key.
2. Ford Specifications: 2019 – F550 4x4 SD Crew cab. Shall include 4 Ford keys and remote keyless entry. See specifications in **Attachment C**.
3. Must include a dark feature that will turn off external lights. The switch will be a part of the Whelen control box.
4. All lights shall be turned on using the Whelen control box. Function will be determined during the prebuild meeting. If additional light switches are needed, it will be discussed with the Fleet Division and Police Department.
5. There shall be 2 storage boxes integrated with body mounted on roof on each side of body. The approximate dimension are 144X23.5X20.00. Dual lids with 2 shock absorber on each lid. The remaining upper roof space shall be for walking and access to tool boxes. Anti-slip material or something similar shall be on the walking roof surface.
6. There shall be 2 outlets per vehicle side for a total of 4 outlets.
7. Battery Auto charge shall be LPC40. Shall have 20amp for vehicle battery and 20amp for body.
8. Shall include a momentary kill switch for backup alarm.
9. Compartment light shall be LED-4V.
10. Contact person for NC Sheriff's Association:
Jeff Williams
Fleet Manager
Asheville Ford
Office: 828-253-2731 ext. 324
Cell: 828-279-4933

Attachment

End of Addendum #1



2019 F-550 Chassis, SD Crew Cab
4x4 SD Crew Cab 203" WB DRW XLT(W5H)
 Price Level: 930

Selected Equipment & Specs

Dimensions

Exterior length: 289.2" * Cab to axle: 84.0" * Exterior width: 80.0" * Exterior height: 81.7" * Wheelbase: 203.0" * Front track: 74.8" * Rear track: 74.0" * Turning radius: 28.6' * Rear tire outside width: 93.9" * Min ground clearance: 8.2" * Front legroom: 43.9" * Rear legroom: 43.6" * Front headroom: 40.8" * Rear headroom: 40.4" * Front hiproom: 62.5" * Rear hiproom: 64.7" * Front shoulder room: 66.7" * Rear shoulder room: 65.9" * Passenger volume: 131.7cu.ft. * Cargo volume: 52.1cu.ft. * Maximum cargo volume: 52.1cu.ft.

Powertrain

288hp 6.8L SOHC 30 valve V-10 engine with SMPI * Recommended fuel : regular unleaded * federal * TorqShift 6 speed automatic transmission with overdrive * Part-time * Limited slip differential * Fuel Economy Cty: N/A * Fuel Economy Highway: N/A * Transmission PTO provision

Suspension/Handling

Front Mono-beam non-independent suspension with anti-roll bar, HD shocks * Rear DANA 130 rigid axle leaf spring suspension with anti-roll bar, HD shocks * Firm ride Suspension * Hydraulic power-assist re-circulating ball Steering * Front and rear 19.5 x 6 polished forged aluminum wheels * LT225/70SR19.5 GBSW AS front and rear tires * Dual rear wheels

Body Exterior

4 doors * Conventional left rear passenger * Conventional right rear passenger * Driver and passenger power remote heated, power folding door mirrors with turn signal indicator * Turn signal indicator in mirrors * Black door mirrors * Chrome bumpers * Trailer harness * Clearcoat paint * Front and rear 19.5 x 6 wheels * 2 front tow hook(s)

Convenience

Manual air conditioning with air filter * Cruise control with steering wheel controls * Power windows * Driver and passenger 1-touch up * Driver and passenger 1-touch down * Remote power door locks with 2 stage unlock and illuminated entry * Manual tilt steering wheel * Manual telescopic steering wheel * Day-night rearview mirror * 911 Assist emergency SOS * Wireless phone connectivity * AppLink smart device integration * 2 1st row LCD monitors * Front and rear cupholders * Dual visor mirrors * Full overhead console * Driver and passenger door bins * Rear door bins * Upfilter switches

Seats and Trim

Seating capacity of 6 * Front 40-20-40 split-bench seat * 4-way driver seat adjustment * Manual driver lumbar support * 4-way passenger seat adjustment * Centre front armrest with storage * 60-40 folding rear split-bench seat * Cloth seat upholstery * Metal-look Instrument panel insert

Entertainment Features

SiriusXM AM/FM/Satellite radio with radio data system * SYNC external memory control * Steering wheel mounted radio controls * 7 speakers * Streaming audio * Fixed antenna

Lighting, Visibility and Instrumentation

Halogen aero-composite headlights * Delay-off headlights * Fully automatic headlights * Variable intermittent front windshield wipers * Deep tinted windows * Front and rear reading lights * Tachometer * Oil pressure gauge * Compass * Outside temperature display * Trip computer * Trip odometer

Safety and Security

4-wheel ABS brakes * Brake assist * 4-wheel disc brakes * Driveline traction control * Dual front impact airbag supplemental restraint system * Dual seat mounted side impact airbag supplemental restraint system * Safety Canopy System curtain 1st and 2nd row overhead airbag supplemental restraint system * Remote activated perimeter/approach lighting * Power remote door locks with 2 stage unlock and panic alarm * Security system with Securilock immobilizer * MyKey restricted driving mode * Manually adjustable front head restraints with tilt * 3 manually adjustable rear head restraints

Dimensions

General Weights

Curb

7692 lbs.

GVWR

19500 lbs.

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2019 F-550 Chassis, SD Crew Cab
4x4 SD Crew Cab 203" WB DRW XLT(W5H)
Price Level: 930

Selected Equipment & Specs (cont'd)

Payload	11900 lbs.		
Front Weights			
Front GAWR	7500 lbs.	Front curb weight	4392 lbs.
Front axle capacity	7500 lbs.	Front spring rating	7500 lbs.
Front tire/wheel capacity	7500 lbs.		
Rear Weights			
Rear GAWR	14706 lbs.	Rear curb weight	3301 lbs.
Rear axle capacity	14706 lbs.	Rear spring rating	15000 lbs.
Rear tire/wheel capacity	15000 lbs.		
Trailer Type			
Harness	Yes	Brake controller	Yes
Trailer sway control	Yes		
General Trailering			
5th-wheel towing capacity	19740 lbs.	Gooseneck towing capacity	19740 lbs.
Towing capacity	18340 lbs.	GCWR	28000 lbs.
Fuel Tank type			
Capacity	40 gal.		
Off Road			
Min ground clearance	8 "		
Interior cargo			
Cargo volume	52.1 cu.ft.	Maximum cargo volume	52.1 cu.ft.
Rear Frame			
Height loaded	29 "	Height unloaded	34 "
Powertrain			
Engine Type			
Block material	Iron	Cylinders	V-10
Head material	Aluminum	Ignition	Spark
Injection	Sequential MPI	Liters	6.8L
Orientation	Longitudinal	Recommended fuel	Regular unleaded
Valves per cylinder	3	Valvetrain	SOHC
Engine Spec			
Bore	3.55"	Compression ratio	9.2:1
Displacement	415 cu.in.	Stroke	4.16"
Engine Power			
Output	288 HP @ 4,000 RPM	Torque	424 ft.-lb @ 3,000 RPM
Alternator			
Type	HD	Amps	240
Battery			
Amp hours	78	Cold cranking amps	750
Run down protection	Yes	Type	HD
Transmission			
Electronic control	Yes	Lock-up	Yes
Overdrive	Yes	Speed	6

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Selected Equipment & Specs (cont'd)

Type	Automatic		
Transmission Gear Ratios			
1st	3.974	2nd	2.318
3rd	1.516	4th	1.149
5th	0.858	6th	0.674
Reverse Gear ratios	3.128		
Transmission Torque Converter			
Stall ratio	1.90		
Transmission Extras			
Driver selectable mode	Yes	Sequential shift control	SelectShift
Oil cooler	Regular duty	PTO provision	Yes
Drive Type			
4wd type	Part-time	Type	Four-wheel
Drive Feature			
Limited slip differential	Mechanical	Traction control	Driveline
Power take-off provision	Yes	Locking hub control	Manual
Transfer case shift	Manual		
Drive Axle			
Ratio	4.88		
Exhaust			
Material	Stainless steel	System type	Single
Emissions			
CARB	Federal		
fuel Economy			
Fuel type	Gasoline		
Driveability			
Brakes			
ABS	4-wheel	ABS channels	3
Type	4-wheel disc	Vented discs	Front and rear
Brake Assistance			
Brake assist	Yes		
Suspension Control			
Ride	Firm		
Front Suspension			
Independence	Mono-beam non-independent	Anti-roll bar	Regular
Front Spring			
Type	Coil	Grade	HD
Front Shocks			
Type	HD		
Rear Suspension			
Independence	DANA 130 rigid axle	Type	Leaf
Anti-roll bar	Regular		

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Selected Equipment & Specs (cont'd)

Rear Spring			
Type	Leaf	Grade	HD
Rear Shocks			
Type	HD		
Steering			
Activation	Hydraulic power-assist	Type	Re-circulating ball
Steering Specs			
# of wheels	2		
Exterior			
Front Wheels			
Diameter	19.5"	Width	6.00"
Rear Wheels			
Diameter	19.5"	Width	6.00"
Dual	Yes		
Front and Rear Wheels			
Appearance	Polished	Material	Forged aluminum
Covers	Chrome hub		
Front Tires			
Aspect	70	Diameter	19.5"
Sidewalls	BSW	Speed	S
Tread	AS	Type	LT
Width	225mm	LT load rating	G
RPM	647		
Rear Tires			
Aspect	70	Diameter	19.5"
Sidewalls	BSW	Speed	S
Tread	AS	Type	LT
Width	225mm	LT load rating	G
RPM	647		
Wheels			
Front track	74.8"	Rear track	74.0"
Turning radius	28.6'	Wheelbase	203.0"
Rear tire outside width	93.9"		
Body Features			
Front license plate bracket	Yes	Front splash guards	Yes
Body material	Aluminum	Side impact beams	Yes
Front tow hook(s)	2		
Body Doors			
Door count	4	Left rear passenger	Conventional
Right rear passenger	Conventional		
Exterior Dimensions			
Length	289.2"	Body width	80.0"
Body height	81.7"	Cab to axle	84.0"
Axle to end of frame	47.2"	Frame section modulus	17.2cu.in.

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Selected Equipment & Specs (cont'd)

Frame yield strength (psi)	50000.0	Frame rail width	34.2"
Front bumper to Front axle	38.3"	Cab to end of frame	131.2"
Front bumper to back of cab	158.1"		

Safety

Airbags

Driver front-impact	Yes	Driver side-impact	Seat mounted
Overhead Safety Canopy System curtain 1st and 2nd row		Passenger front-impact	Yes
Passenger side-impact	Seat mounted		

Seatbelt

Height adjustable	Front
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Security

Immobilizer	SecuriLock	Panic alarm	Yes
Restricted driving mode	MyKey		

Seating

Passenger Capacity

Capacity	6
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Front Seats

Split	40-20-40	Type	Split-bench
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Driver Seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4	Lumbar support	Manual

Passenger seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4		

Front Head Restraint

Control	Manual	Type	W/tilt
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Front Armrest

Centre	Yes	Storage	Yes
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Rear Seats

Descriptor	Split-bench	Facing	Front
Folding	60-40	Folding position	Fold-up cushion
Type	Fixed		

Rear Head Restraints

Control	Manual	Type	Adjustable
Number	3		

Front Seat Trim

Material	Cloth	Back material	Cloth
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Rear Seat Trim Group

Material	Cloth	Back material	Carpet
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Convenience

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Selected Equipment & Specs (cont'd)

AC And Heat Type			
Air conditioning	Manual	Air filter	Yes
Underseat ducts	Yes		
Audio System			
Radio	SiriusXM AM/FM/Satellite	Radio data system	Yes
Radio grade	Regular	Seek-scan	Yes
External memory control	SYNC		
Audio Speakers			
Speaker type	Regular	Speakers	7
Audio Controls			
Speed sensitive volume	Yes	Steering wheel controls	Yes
Voice activation	Yes	Streaming audio	Bluetooth yes
Audio Antenna			
Type	Fixed		
LCD Monitors			
1st row	2	Primary monitor size (inches)	4.2
Cruise Control			
Cruise control	With steering wheel controls		
Convenience Features			
Retained accessory power	Yes	12V DC power outlet	3
Emergency SOS	911 Assist	Wireless phone connectivity	Bluetooth
Smart device integration	App link	Upfitter switches	Yes
Door Lock Activation			
Type	Power with 2 stage unlock	Remote	Keyfob (all doors)
Integrated key/remote	Yes		
Instrumentation Type			
Display	Analog		
Instrumentation Gauges			
Tachometer	Yes	Oil pressure	Yes
Engine temperature	Yes	Transmission fluid temp	Yes
Engine hour meter	Yes		
Instrumentation Warnings			
Oil pressure	Yes	Engine temperature	Yes
Battery	Yes	Lights on	Yes
Key	Yes	Low fuel	Yes
Door ajar	Yes	Service interval	Yes
Brake fluid	Yes		
Instrumentation Displays			
Clock	In-radio display	Compass	Yes
Exterior temp	Yes	Systems monitor	Yes
Instrumentation Feature			
Trip computer	Yes	Trip odometer	Yes
Steering Wheel Type			

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Selected Equipment & Specs (cont'd)

Material Telescoping	Urethane Manual	Tilting	Manual
Front Side Windows			
Window 1st row activation	Power		
Windows Rear Side			
2nd row activation	Power		
Window Features			
1-touch down	Driver and passenger	1-touch up	Driver and passenger
Tinted	Deep		
Front Windshield			
Wiper	Variable intermittent		
Rear Windshield			
Window	Fixed		
Interior			
Driver Visor			
Mirror	Yes		
Passenger Visor			
Mirror	Yes		
Rear View Mirror			
Day-night	Yes		
Headliner			
Coverage	Full	Material	Cloth
Floor Trim			
Coverage	Full	Covering	Vinyl/rubber
Trim Feature			
Instrument panel insert	Metal-look	Gear shift knob	Urethane
Interior accents	Chrome		
Lighting			
Dome light type	Fade	Front reading	Yes
Illuminated entry	Yes	Rear reading	Yes
Variable IP lighting	Yes		
Overhead Console Storage			
Storage	Yes	Type	Full
Storage			
Driver door bin	Yes	Front Beverage holder(s)	Yes
Glove box	Locking	Passenger door bin	Yes
Seatback storage pockets	2	Illuminated	Yes
Rear yes	Yes	Instrument panel	Bin
Dashboard	Covered	Rear door bins	Yes
1st row underseat	Locking	2nd row underseat	Locking
Legroom			
Front	43.9"	Rear	43.6"

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4x4 SD Crew Cab 203" WB DRW XLT(W5H)
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Selected Equipment & Specs (cont'd)

<i>Headroom</i>			
Front	40.8"	Rear	40.4"
<i>Hip Room</i>			
Front	62.5"	Rear	64.7"
<i>Shoulder Room</i>			
Front	66.7"	Rear	65.9"
<i>Interior Volume</i>			
Passenger volume	131.7 cu.ft.		

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4x4 SD Crew Cab 203" WB DRW XLT(W5H)
Price Level: 930

Selected Options

Code	Description
Base Vehicle	
W5H	Base Vehicle Price (W5H)
Packages	
663A	<p>Order Code 663A</p> <p><i>Includes:</i></p> <ul style="list-style-type: none">- Engine: 6.8L 3-Valve SOHC EFI NA V10- Transmission: TorqShift 6-Speed Automatic (6R140)- Includes SelectShift- Tires: 225/70R19.5G BSW AS- Cloth 40/20/40 Split Bench Seat- Includes 20% center under-seat storage, center armrest, cupholder, storage, 4-way adjustable driver/passenger headrests and driver's side manual lumbar.- Radio: AM/FM Stereo/MP3 Player- Includes 7 speakers.- SYNC Communications & Entertainment System- Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink, 1 smart-charging USB port and steering wheel audio controls.- SiriusXM Satellite Radio- Includes a 6-month prepaid subscription. Service is not available in Alaska and Hawaii. <p>Subscriptions to all SiriusXM services are sold by SiriusXM after trial period. If you decide to continue service after your trial, the subscription plan you choose will automatically renew thereafter and you will be charged according to your chosen payment method at then-current rates. Fees and taxes apply. To cancel you must call SiriusXM at 1-866-635-2349. See SiriusXM Customer Agreement for complete terms at www.siriusxm.com. All fees and programming subject to change. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc.</p>
Powertrain	
99Y	Engine: 6.8L 3-Valve SOHC EFI NA V10
44P	Transmission: TorqShift 6-Speed Automatic (6R140)
	<i>Includes SelectShift</i>
X8L	Limited Slip w/4.88 Axle Ratio
68M	GVWR: 19,500 lb Payload Plus Upgrade Package
	<i>Includes upgraded frame, rear-axle and low deflection/high capacity springs. Increases max RGAWR to 14,706. Note: See Order Guide Supplemental Reference for further details on GVWR.</i>
Wheels & Tires	
TFB	Tires: 225/70R19.5G BSW AS
64D	Wheels: 19.5" Forged Polished Aluminum
	<i>Includes bright hub covers/center ornaments.</i>
Seats & Seat Trim	
3	Cloth 40/20/40 Split Bench Seat
	<i>Includes 20% center under-seat storage, center armrest, cupholder, storage, 4-way adjustable driver/passenger headrests and driver's side manual lumbar</i>
Other Options	

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Ford Credit LLC



Selected Options (cont'd)

Code	Description
PAINT	Monotone Paint Application
203WB	203" Wheelbase
67P	Extra Heavy-Duty Front End Suspension - 7,500 GAWR <i>Includes upgraded front axle and max 7,500 lbs. Front Springs/GAWR rating for configuration selected. Incomplete vehicle package - requires further manufacture and certification by a final stage manufacturer.</i>
86S	Low Deflection Package <i>Includes 2-inch spacer blocks. Recommended for rear-biased loading, such as wrecker/retriever applications.</i>
62R	Transmission Power Take-Off Provision <i>Includes transmission mounted live drive and stationary mode PTO.</i>
18A	Upfitter Interface Module
54F	PowerScope Trailer Tow Mirrors w/Heat <i>Includes power folding, telescoping, power glass, turn signal and high-intensity LED security approach lamps. Includes: - Utility Lighting System Includes LED side-mirror spotlights.</i>
63A	Utility Lighting System <i>Includes LED side-mirror spotlights</i>
166	Carpet Delete (LPO) <i>Replaced with black flooring.</i>
585	Radio: AM/FM Stereo/MP3 Player <i>Includes 7 speakers. Includes: - SYNC Communications & Entertainment System Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppleLink, 1 smart-charging USB port and steering wheel audio controls. - SiriusXM Satellite Radio Includes a 6-month prepaid subscription. Service is not available in Alaska and Hawaii. Subscriptions to all SiriusXM services are sold by SiriusXM after trial period. If you decide to continue service after your trial, the subscription plan you choose will automatically renew thereafter and you will be charged according to your chosen payment method at then-current rates. Fees and taxes apply. To cancel you must call SiriusXM at 1-866-635-2349. See SiriusXM Customer Agreement for complete terms at www.siriusxm.com. All fees and programming subject to change. Sirius, XM and all related marks and logos are trademarks of Sirius XM Radio Inc.</i>
Emissions	
425	50-State Emissions System
Interior Colors	
3S_01	Medium Earth Gray
Primary Colors	
UX_01	Ingot Silver Metallic

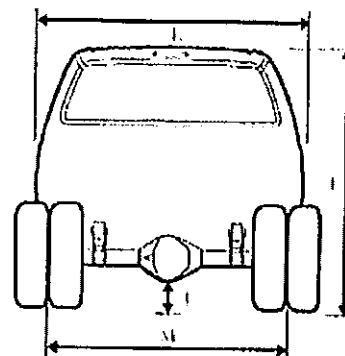
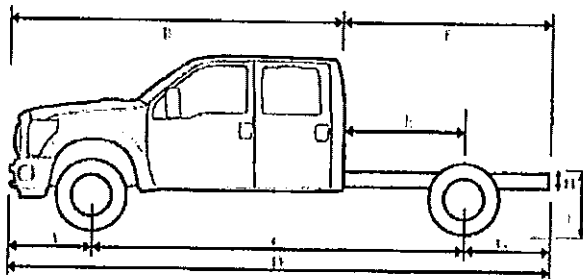
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Performance

Performance predictions in this report represent an estimate of vehicle performance based on standard operating conditions. Variations in customer equipment, load configuration, ambient conditions, and/or operator driving techniques can cause significant variations in vehicle performance. These values are not representative of results that may be shown in actual dynamometer tests. This report should therefore be used as a guide for comparative vehicle performance.



Dimensions

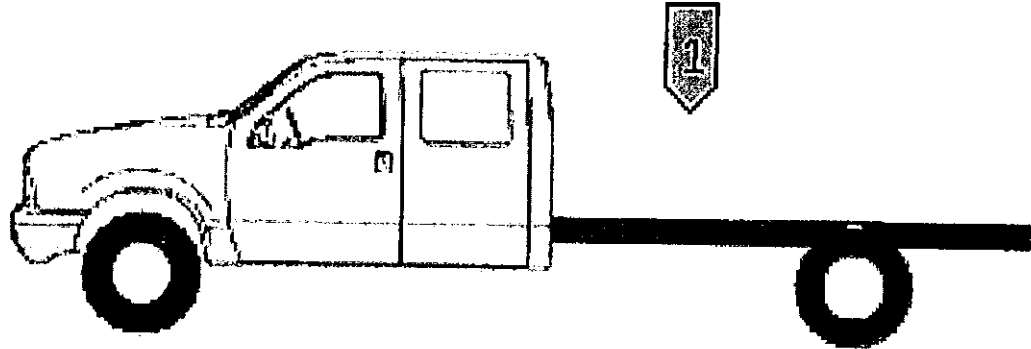
A	Front of Bumper to Front Axle	38.30 in.
B	Front Bumper to Back of Cab (BBC)	158.10 in.
C	Wheelbase (WB)	203.00 in.
D	Overall Length (OAL)	289.20 in.
E	Back of Cab to Rear Axle (CA)	84.00 in.
F	Back of Cab to End of Frame	131.20 in.
G	Rear Axle to End of Frame (AF)	47.20 in.
H	Frame Section Height	N/A
I	Rear Frame Height Unloaded	34.30 in.
J	Rear Frame Height Loaded	28.60 in.
K	Cab Height	81.70 in.
L	Body Width	80.00 in.
L	Maximum Ground Clearance	N/A
L	Minimum Ground Clearance	8.20 in.
M	Front Tread	74.80 in.
M	Rear Tread	74.00 in.

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4x4 SD Crew Cab 203" WB DRW XLT(W5H)
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Performance (cont'd)



Weight

GVW	Front Axle	Rear Axle	Totals
Chassis	4,392 lbs	3,301 lbs	7,693 lbs
Body	0 lbs	0 lbs	0 lbs
Occupants Weight	600 lbs	300 lbs	900 lbs
1 Max Payload - (Max Payload)	2,508 lbs	8,399 lbs	10,907 lbs
TOTAL	7,500 lbs	12,000 lbs	19,500 lbs

Ratings	Front Axle	Rear Axle	GVWR
GAWR	7,500 lbs	14,706 lbs	19,500 lbs
Wheels/Tires	7,500 lbs	15,000 lbs	
Suspension	7,500 lbs	15,000 lbs	
Axle	7,500 lbs	14,706 lbs	
Legal Axle Limit	0 lbs	0 lbs	

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Performance (cont'd) Start, Grade and Speed

Start	Ratio	Desired	Calculated
Start grade capability in 1st gear	3.97	15.00 %	24.22 %
Start grade capability in reverse	3.13	15.00 %	19.07 %
Grade	Ratio	Desired	Calculated
Maximum grade in 4th gear	1.15	3.00 %	7.37 %
Maximum grade in 5th gear	0.86	3.00 %	5.51 %
Maximum grade in 6th gear	0.67	3.00 %	4.32 %
Speed		Desired	Calculated
Top Speed (level grade)		75 mph	85 mph
<i>To meet your requirement you need a maximum axle ratio of 8.81</i>			
Top Speed on 3.0% grade		55 mph	
<i>To meet your requirement you need a maximum of 122 hp</i>			
Cruise Speed		60 mph	73 mph
Engine RPM at desired cruise speed			2,128 rpm

Variables in Use

Rear axle ratio:	4.88/4.88	Peak Torque RPM:	3,000 rpm
Tire size:	225/70R19.5 (647 rev/mile)	Frontal Area:	40.39 Sq.Ft.
Gross Vehicle Weight (GVW):	19,500 lbs	Cruising RPM	2,600 rpm
Clutch engagement torque:	212 ft.lbs.	Worst road surface	Typical Highway
Torque conversion ratio:	1.90	Final Drive Ratio:	0.67
Peak engine torque:	424 ft.lbs.	Drag Coefficient	0.80
Engine Power:	288 hp @ 4,000 rpm		

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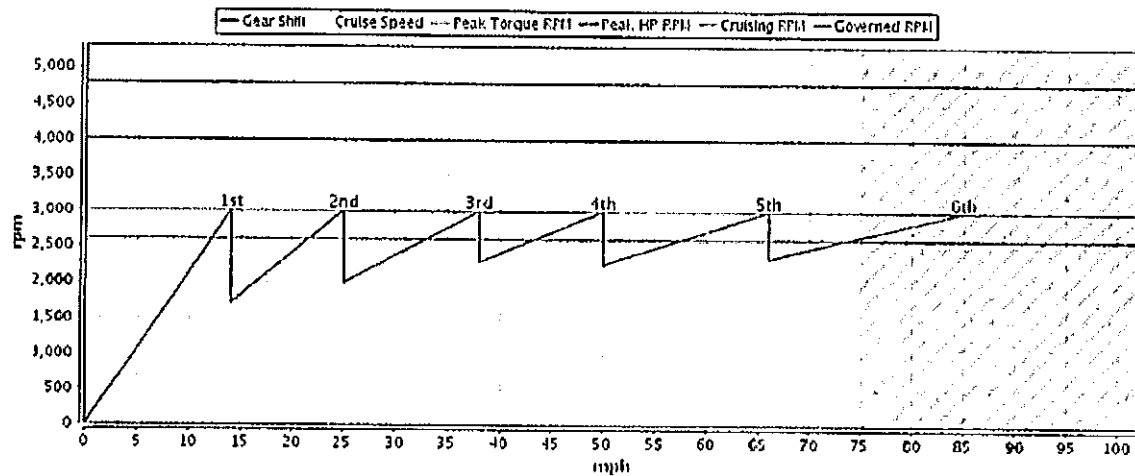
Performance (cont'd)

Shift Chart

Shift Chart displays mathematical geared speed.

Diesel engines use Governed RPM for shift points.

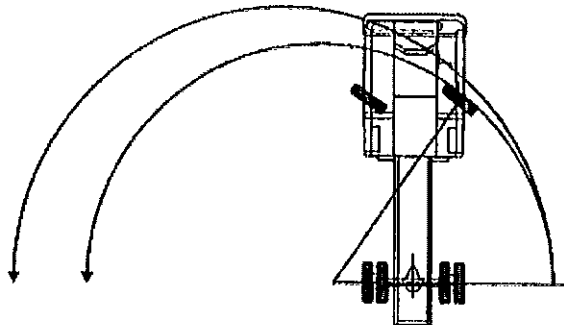
Gas engines use Peak Torque RPM for shift points.



Turning Radius

Turning Radius

28.60 ft



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