



Badger Truck Center, Inc.
2326 W St Paul Ave, Milwaukee, Wisconsin, 532332522
Office: 414-344-9500

Customer Proposal

Prepared for:

Runnion Equipment Company
7950 West 47th Street
Lyons , IL 60534

Prepared by:

Matthew Dierksmeier
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Ship to:

Elliott
Runnion Equipment Company
7950 West 47th Street,
Lyons , IL, 60534

Date: 09/19/2018

Vehicle: 2019 F-550 Chassis XLT
4x2 SD Regular Cab 193" WB DRW
Quote ID: RECXL7919



Badger Truck Center, Inc.
2326 W St Paul Ave, Milwaukee, Wisconsin,
532332522
Office: 414-344-9500

2019 F-550 Chassis, SD Regular Cab
4x2 SD Regular Cab 193" WB DRW XLT(F5G)
Price Level: 930 Quote ID: RECXL7919

Table of Contents

Description	Page
Cover Page	1
Table of Contents	2
Selected Options	3
Selected Equip & Specs	5
Performance Tests	12
Warranty - Selected	16
Pricing - Single Vehicle	17



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2019 F-550 Chassis, SD Regular Cab
4x2 SD Regular Cab 193" WB DRW XLT(F5G)
Price Level: \$90 Quote ID: RECL1919

Selected Options

Code	Description
Base Vehicle	
F5G	Base Vehicle Price (F5G)
Packages	
663A	Order Code 663A Includes: - Tires: 225/70R19.5G BSW AS - Cloth 40/20/40 Split Bench Seat - 20% center under-seat storage, center armrest, cupholder, manual lumbar. - Radio: AM/FM Stereo/MP3 Player Includes 5 speakers. - 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, 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.
Powertrain	
99T	Engine: 6.7L 4V OHV Power Stroke V8 Turbo Diesel B20 Includes Diesel Exhaust Fluid (DEF) tank, Intelligent Oil-Life Monitor, manual push-button engine-exhaust braking and split-shaft calibration compatibility. Includes: - Dual 78-AH 750 CCA Batteries Transmission: TorqShift 6-Speed Automatic (6R140). Includes SelectShift. Limited Slip w/4.88 Axle Ratio GVWR: 19,500 lb Payload Plus Upgrade Package 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.
Wheels & Tires	
TFB	Tires: 225/70R19.5G BSW AS
64D	Wheels: 19.5" Forged Polished Aluminum Includes bright hub covers/center ornaments.
Seats & Seat Trim	
3	Cloth 40/20/40 Split Bench Seat Includes 20% center under-seat storage, center armrest, cupholder, manual lumbar, adjustable driver/passenger headrests and driver's side manual lumbar.

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Prepared for: **Bunton Equipment Company**
By: **Matthew Dierksmaier** Date: **09/19/2018**



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Selected Options (cont'd)

Code	Description
Other Options	
PAINT	Monotone Paint Application
193WB	193" Wheelbase
473	Snow Plow Prep Package Includes pre-selected springs (see Order Guide Supplemental Reference for springs/FGAWR of specific vehicle configurations). Note 1: Restrictions apply; see Supplemental Reference or Body Builders Layout for details. Note 2: Also allows for the attachment of a winch. Includes: - Dual Alternators (Total 332-Amps)
41H	Engine Block Heater
62R	Transmission Power Take-Off Provision Includes transmission mounted live drive and stationary mode PTO.
67A	Dual Alternators (Total 332-Amps)
18B	Platform Running Boards
585	Radio: AM/FM Stereo/MP3 Player 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.
Emissions	
425	50-State Emissions System
Interior Colors	
3S_01	Medium Earth Gray
Primary Colors	
Z1_01	Oxford White

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4x2 SD Regular Cab 193" WB DRW XLT(F5G)
Price Level: \$90 Quote ID: RECXL1919

Selected Equipment & Specs

Dimensions

Exterior length: 278.8" * Cab to axle: 108.0" * Exterior width: 80.0" * Exterior height: 81.7" * Wheelbase: 193.0" * Front track: 74.8" * Rear track: 74.0" * Turning radius: 27.3" * Rear tire outside width: 93.9" * Min ground clearance: 8.3" * Front legroom: 43.9" * Front headroom: 40.8" * Front hiproom: 62.5" * Front shoulder room: 66.7" * Passenger volume: 64.6cu.ft. * Cargo volume: 11.6cu.ft. * Maximum cargo volume: 11.6cu.ft.

Powertrain

Powerstroke 330hp 6.7L OHV 32 valve intercooled turbo V-8 engine with diesel direct injection * Recommended fuel: diesel * Federal * TorqShift 6 speed automatic transmission with overdrive * Rear-wheel drive * Limited slip differential * Fuel Economy City: 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

2 doors * Driver and passenger power remote heated, manual folding door mirrors with turn signal indicator * Turn signal indicator in mirrors * Black door mirrors * Chrome bumpers * Side steps * 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 front 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 * 9"11 Assist emergency SOS * Wireless phone connectivity * AppLink smart device integration * 2 1st row LCD monitors * Front cupholders * Dual visor mirrors * Driver and passenger door bins * Uplifter switches

Seats and Trim

Seating capacity of 3 * 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 * Cloth seat upholstery * Metal-head instrument panel insert

Entertainment Features

SiriusXM AM/FM/Satellite radio with radio data system * SYNC external memory control * Steering wheel mounted radio controls * 5 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 reading lights * Tachometer * 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 with passenger cancel * Dual seat mounted side impact airbag supplemental restraint system * Safety Canopy System curtain 1st 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

Dimensions

General Weights

Curb	7794 lbs.	GWR	19500 lbs.
Payload	11820 lbs.		

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Selected Equipment & Specs (cont'd)

Front Weights

Front GAWR	7000 lbs.	Front curb weight	4570 lbs.
Front axle capacity	7000 lbs.	Front spring rating	7000 lbs.
Front tire/wheel capacity	7500 lbs.		

Rear Weights

Rear GAWR	14706 lbs.	Rear curb weight	3224 lbs.
Rear axle capacity	14706 lbs.	Rear spring rating	15000 lbs.
Rear tire/wheel capacity	15000 lbs.		

Trailer/Towing Type

Harness	Yes	Brake controller	Yes
Trailer sway control	Yes		

General Trailering

5th-wheel towing capacity	23580 lbs.	Gooseneck towing capacity	23580 lbs.
Towing capacity	18180 lbs.	GCWR	32000 lbs.

Fuel Tank type

Capacity	40 gal.		
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Off Road

Min ground clearance	8 "		
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Interior cargo

Cargo volume	11.6 cu.ft.	Maximum cargo volume	11.6 cu.ft.
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Rear Frame

Height loaded	29 "	Height unloaded	34 "
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Powertrain

Engine Type

Brand	Powerstroke	Block material	Iron
Cylinders	V-8	Head material	Aluminum
Ignition	Compression	Injection	Diesel direct injection
Liters	6.7L	Orientation	Longitudinal
Recommended fuel	Diesel	Valves per cylinder	4
Valvetrain	OHV	Forced induction	Intercooled turbo

Engine Spec

Bore	3.90"	Compression ratio	16.2:1
Displacement	406 cu.in.	Stroke	4.25"

Engine Power

Output	330 HP @ 2,600 RPM	Torque	750 ft.-lb @ 2,000 RPM
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Alternator

Type	Dual	Amps	332
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Battery

Amp hours	78	Cold cranking amps	750
Run down protection	Yes	Type	Dual

Engine Extras

Block heater	Yes		
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Selected Equipment & Specs (cont'd)

Transmission		Yes	Lock-up	Yes
Electronic control	Yes	Speed	6	
Overdrive	Yes			
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	
PTO provision	Yes			
Drive Type				
Type	Rear-wheel			
Drive Feature				
Limited slip differential	Mechanical	Traction control	Driveline	
Power take-off provision	Yes			
Drive Axle				
Ratio	4.88			
Exhaust				
Material	Stainless steel	System type	Single	
Emissions				
CARB	Federal			
Fuel Economy				
Fuel type	Diesel			
Engine Retarder				
Type	Yes			
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	

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Selected Equipment & Specs (cont'd)

Front Shocks		HD		
Type				
Rear Suspension				
Independence	DANA 130 rigid axle	Type	Leaf	
Anti-roll bar	Regular			
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	27.3'	Wheelbase	193.0"	
Rear tire outside width	93.9"			
Body Features				
Front license plate bracket	Yes	Front splash guards	Yes	
Body material	Aluminum	Side impact beams	Yes	
Side steps	Yes	Front tow hook(s)	2	
Body Doors				

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Selected Equipment & Specs (cont'd)

Door count		2	
Exterior Dimensions			
Length	278.8"	Body width	80.0"
Body height	81.7"	Cab to axle	108.0"
Axle to end of frame	47.2"	Frame section modulus	17.2cu.in.
Frame yield strength (psi)	50000.0	Frame rail width	34.2"
Front bumper to front axle	38.3"	Cab to end of frame	155.2"
Front bumper to back of cab	123.7"		
Safety			
Airbags			
Driver front-impact	Yes	Driver side-impact	Seat mounted
Overhead	Safety Canopy System curtain 1st row	Passenger front-impact	Cancellable
Seatbelt			
Passenger side-impact	Seat mounted		
Height adjustable			
	Front		
Security			
Immobilizer	SecuriLock MyKey	Panic alarm	Yes
Restricted driving mode			
Seating			
Passenger Capacity			
Capacity	3		
Front Seats			
Split	40-20-40	Type	Split-bench
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
Front Armrest			
Centre	Yes	Storage	Yes
Front Seat Trim			
Material	Cloth	Back material	Carpet
Convenience			
AC And Heat Type			
Air conditioning	Manual	Air filter	Yes
Audio System			
Radio	SiriusXM AM/FM/Satellite Regular	Radio data system	Yes
Radio grade		Seek-scan	Yes

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Selected Equipment & Specs (cont'd)

External memory control		SYNC	
Audio Speakers		Regular	
Speaker type		Speakers	5
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	Engine temperature	Yes
Turbo/supercharger boost	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			
Material	Urethane	Tilting	Manual
Telescoping	Manual		
Front Side Windows			
Window 1st row activation	Power		
Window Features			
1-touch down	Driver and passenger	1-touch up	Driver and passenger

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Selected Equipment & Specs (cont'd)

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	
Floor Trim	Full
Coverage Mats	Full
Trim Feature Instrument panel insert Interior accents	Metal-look Chrome
Lighting	
Dome light type Illuminated entry	Fade Yes
Storage	
Driver door bin Glove box Illuminated Dashboard	Yes Locking Yes Covered
Legroom	
Front	43.9"
Headroom	
Front	40.8"
Hip Room	
Front	62.5"
Shoulder Room	
Front	66.7"
Interior Volume	
Passenger volume	64.6 cu. ft.

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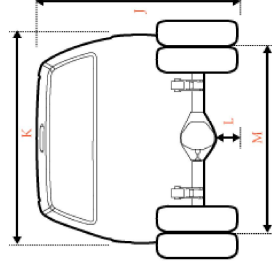
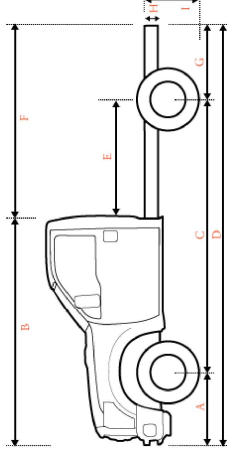


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Performance

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)	123.70 in.
C	Wheelbase (WB)	193.00 in.
D	Overall Length (OAL)	278.80 in.
E	Back of Cab to Rear Axle (CA)	108.00 in.
F	Back of Cab to End of Frame	155.20 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.
I	Rear Frame Height Loaded	28.60 in.
J	Cab Height	81.70 in.
K	Body Width	80.00 in.
L	Maximum Ground Clearance	N/A
L	Minimum Ground Clearance	8.30 in.
M	Front Tread	74.80 in.
M	Rear Tread	74.00 in.

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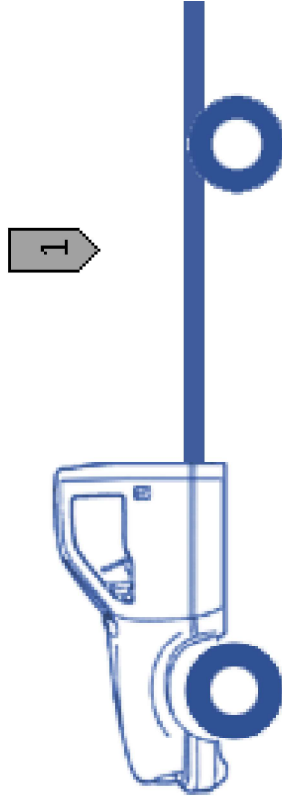
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Performance (cont'd)



Weight

GWW	Front Axle	Rear Axle	Totals
Chassis	4,570 lbs	3,224 lbs	7,794 lbs
Body	0 lbs	0 lbs	0 lbs
Occupants Weight	300 lbs	150 lbs	450 lbs
1 Max Payload - (Max Payload)	2,130 lbs	9,126 lbs	11,256 lbs
TOTAL	7,000 lbs	12,500 lbs	19,500 lbs
Ratings	Front Axle	Rear Axle	GVWR
GAWR	7,000 lbs	14,706 lbs	19,500 lbs
Wheels/Tires	7,500 lbs	15,000 lbs	
Suspension	7,000 lbs	15,000 lbs	
Axle	7,000 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 %	42.85 %
Start grade capability in reverse	3.13	15.00 %	33.73 %
Grade	Ratio	Desired	Calculated
Maximum grade in 4th gear	1.15	3.00 %	13.04 %
Maximum grade in 5th gear	0.86	3.00 %	9.74 %
Maximum grade in 6th gear	0.67	3.00 %	7.65 %
Speed		Desired	Calculated
Top Speed (level grade)		75 mph	88 mph
<i>To meet your requirement you need a maximum axle ratio of 5.72</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	65 mph
Engine RPM at desired cruise speed			2,128 rpm

Variables in Use

Rear axle ratio:	4.88/4.88	Governed RPM:	3,120 rpm
Tire size:	225/70R19.5 (647 rev/mile)	Frontal Area:	40.39 Sq.Ft.
Gross Vehicle Weight (GVW):	19,500 lbs	Cruising RPM	2,300 rpm
Clutch engagement torque:	375 ft.lbs.	Worst road surface	Typical Highway
Torque conversion ratio:	1.90	Final Drive Ratio:	0.67
Peak engine torque:	750 ft.lbs.	Drag Coefficient	0.80
Engine Power:	330 hp @ 2,600 rpm		

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By: Matthew Dierksmeier Date: 09/19/2018



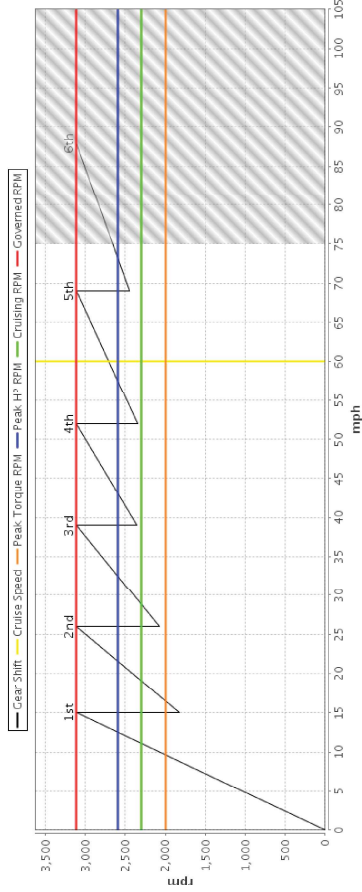
Badger Truck Center, Inc.
2326 W St Paul Ave, Milwaukee, Wisconsin,
532332522
Office: 414-344-9500

2019 F-550 Chassis, SD Regular Cab
4x2 SD Regular Cab 193" WB DRW XLT(F5G)
Price Level: \$30 Quote ID: RECXL1919

Performance (cont'd)

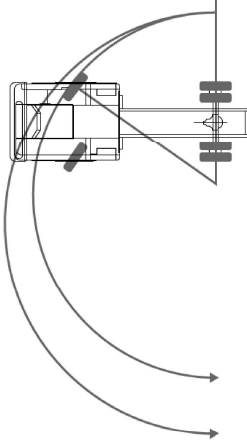
Shift Chart

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 27.25 ft



Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

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Warranty - Selected Equipment & Specs

Warranty

Basic			
Distance	36000 miles	Months	36 months
Powertrain			
Distance	60000 miles	Months	60 months
Corrosion Perforation			
Distance	Unlimited miles	Months	60 months
Roadside Assistance			
Distance	60000 miles	Months	60 months
Diesel Engine			
Distance	100000 miles	Months	60 months

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