Chapter 3

SPECIFICATIONS

1. MODEL LINE-UP
2. WEIGHTS AND DIMENSIONS
3. WEIGHT DISTRIBUTION OF THE OPTIONAL EQUIPMENT

1. MODEL LINE-UP

2019 MODEL YEAR ENGINE

Unit:mm(in)

Model code	Engine	Rr suspension	Cab type	Transmission (T/M)	Wheelbase								
					J	L	M	P	R	S	T	V	Y
					4445 (175)	4750 (187)	5207 (205)	5512 (217)	5969 (235)	6147 (242)	6426 (253)	6883 (271)	7,645 (301)
NE8J	J08E-WU (230HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	●	●	●	●	●	-	●	●	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
		AIR		AUTO T/M (Allison 2200HS)	●	●	●	●	●	-	●	●	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
		AIR	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
NF8J		LEAF	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
		AIR	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									

Unit:mm(in)

Model code	Engine	Rr suspension	Cab type	Transmission (T/M)	Wheelbase								
					J	L	M	P	R	S	T	V	Y
					4445 (175)	4750 (187)	5207 (205)	5512 (217)	5969 (235)	6147 (242)	6426 (253)	6883 (271)	7,645 (301)
NJ8J	J08E-WU (230HP)	AIR	Day	AUTO T/M (Allison 2200HS)	●	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
		AIR	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
NV8J	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000HS)									
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
		AIR	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000HS)									
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
NH8J	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 3000HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
		AIR		AUTO T/M (Allison 3000HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									

2020 MODEL YEAR ENGINE

Unit:mm(in)

Model code	Engine	Rr suspension	Cab type	Transmission (T/M)	Wheelbase								
					J	L	M	P	R	S	T	V	Y
					4445 (175)	4750 (187)	5207 (205)	5512 (217)	5969 (235)	6147 (242)	6426 (253)	6883 (271)	7,645 (301)
NE8J	J08E-WU (230HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	●	●	●	●	●	-	●	●	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
		AIR		AUTO T/M (Allison 2200HS)	●	●	●	●	●	-	●	●	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
			Extended	AUTO T/M (Allison 2200HS)	–	–	–	–	–	●	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
		AIR	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
			Extended	AUTO T/M (Allison 2200HS)	–	–	–	–	–	●	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
NF8J	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
		AIR	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
			Extended	AUTO T/M (Allison 2500HS)	–	–	–	–	–	–	–	–	●
				AUTO T/M (Allison 2500RDS)									

Unit:mm(in)

Model code	Engine	Rr suspension	Cab type	Transmission (T/M)	Wheelbase								
					J	L	M	P	R	S	T	V	Y
					4445 (175)	4750 (187)	5207 (205)	5512 (217)	5969 (235)	6147 (242)	6426 (253)	6883 (271)	7,645 (301)
NJ8J	J08E-WU (230HP)	AIR	Day	AUTO T/M (Allison 2200HS)	●	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000RDS)									
		AIR	Day	AUTO T/M (Allison 2200HS)	–	–	–	●	–	–	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
			Extended	AUTO T/M (Allison 2200HS)	–	–	–	–	–	●	–	–	–
				AUTO T/M (Allison 2200RDS)									
				AUTO T/M (Allison 2500HS)									
				AUTO T/M (Allison 2500RDS)									
NV8J	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000HS)									
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
		AIR	Day	AUTO T/M (Allison 2500HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000HS)									
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
			Extended	AUTO T/M (Allison 2500HS)	–	–	–	–	–	●	–	–	–
				AUTO T/M (Allison 2500RDS)									
				AUTO T/M (Allison 3000HS)									
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
NH8J	J08E-VB (260HP)	LEAF	Day	AUTO T/M (Allison 3000HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									
		AIR		AUTO T/M (Allison 3000HS)	–	●	●	●	●	–	●	●	–
				AUTO T/M (Allison 3000RDS)									
				AUTO T/M (Allison 3500RDS)									

2. WEIGHTS AND DIMENSIONS

See to the Excel data in bookmarks for weights and dimensions.

- GVW Capacity and GAW Capacity listed in the Excel data must not be exceeded.
- Chassis weight: On Std. Spec. filled with lubricants coolant and fuel, but without spare tire and Std. tool sets.
- All specifications of the products are within normal manufacturing allowances and tolerances.

3. WEIGHT DISTRIBUTION OF THE OPTIONAL EQUIPMENT

The table of option weight shows the difference weight with standard specifications.

< Day Cab >

CONTENT OF OPTION		WEIGHT kg (lb.)	GRAVITY POSITION FROM F.A.C. m (ft.)	MOMENT FROM F.A.C. kg·m (lb·ft)	W/B	REMARKS
SEATING CAPACITY	2	-4 (-9)	1.157 (3.80)	-4.628 (-33.47)	ALL	Except MANUAL T/M
FUEL TANK	50gal X 1	-154 (-340)	2.15 (7.05)	-331.1 (-2394.85)	ALL	Only model NH
	50gal X 2	206 (454)	2.44 (8.01)	502.64 (3635.60)	ALL	Except model NH
		51 (112)	3.33 (10.93)	169.83 (1228.38)	ALL	Only model NH
	90gal X 1	154 (340)	2.15 (7.05)	331.1 (2394.85)	ALL	Except model NH
REAR SUSPENSION	WITH D/SHOCK	33 (73)	at Rear Axle Unspring weight	-	ALL	Unsprung weight
	WITH STABI.	86 (190)	at Rear Axle Unspring weight	-	ALL	Unsprung weight
	WITH D/SHOCK & STABI.	108 (238)	at Rear Axle Unspring weight	-	ALL	Unsprung weight
	HELPER LEAF WITH	21 (46)	at Rear Axle Unspring weight	-	ALL	Unsprung weight Except 31000lbs spring
	HELPER RUBBER WITH	26 (57)	at Rear Axle Unspring weight	-	ALL	Unsprung weight Except 21000lbs spring
BATTERY	AGM GR31 X 2	11 (24)	0.81 (2.66)	8.91 (64.45)	ALL	
	AGM GR31 X 3	42 (93)	0.81 (2.66)	34.02 (246.07)	ALL	
	BCI GR31 X 3	25 (55)	0.81 (2.66)	20.25 (146.47)	ALL	
BUMPER	+4" 3P	14 (31)	-0.96 (-3.15)	-13.44 (-97.21)	ALL	
	3P	2 (4)	-0.96 (-3.15)	-1.92 (-13.89)	ALL	
	+4"	11 (24)	-0.96 (-3.15)	-10.56 (-76.38)	ALL	
	LESS	-30 (-66)	-0.96 (-3.15)	28.8 (208.31)	ALL	
DIFF. LOCK		9 (20)	at Rear Axle Unspring weight	-	ALL	Unsprung weight Only model NJ, NV, NH
EXTHAUST SYSTEM	STACK	48 (106)	1.2 (3.94)	57.6 (416.62)	ALL	
TRAILLER CONNECTION		5 (11)	2.04 (6.69)	10.2 (73.78)	ALL	Only model NV ATM, NH ATM
REAR OVERHANG FRAME	120”	112 (247)	W/B length + 2.086 (W/B length + 6.843)	WEIGHT x GRAVITY POSITION FROM F.A.C.	-	Thickness t=9.5mm(0.37in.) NE W/B=G,Y , NF W/B=ALL NJ W/B=G,Y , NV NH W/B=ALL
		93 (205)	W/B length + 2.086 (W/B length + 6.843)	WEIGHT x GRAVITY POSITION FROM F.A.C.	-	Thickness t=7.8mm(0.31in.) NE W/B=J～V NJ W/B=J～V
TRANSMISSION	ALLISON 3000RDS	130 (287)	0.99 (3.25)	128.7 (930.89)	ALL	Only model NE J08E-VB, NJ J08E-VB
	ALLISON 2500RDS/2500HS	-130 (-287)	0.99 (3.25)	-128.7 (-930.89)	ALL	Only model NV
	ALLISON 3000HS	-18 (-40)	2.04 (6.69)	-36.72 (-265.60)	ALL	Only model NV,NH

※ CAB GRIP (OPT) is included in the standard vehicle weight.

※ OPT : Option Spec.

< Extended Cab >

CONTENT OF OPTION		WEIGHT kg (lb.)	GRAVITY POSITION FROM F.A.C. m (ft.)	MOMENT FROM F.A.C. kg·m (lb·ft)	W/B	REMARKS
FUEL TANK	50gal X 2	206 (454)	3.2054 (10.52)	660.3 (4776.04)	ALL	
	90gal X 1	154 (340)	2.15 (7.05)	331.1 (2394.85)	ALL	
REAR SUSPENSION	WITH D/SHOCK	33 (73)	at Rear Axle Unspring weight	-	ALL	Unsprung weight
	WITH STABI..	86 (190)	at Rear Axle Unspring weight	-	ALL	Unsprung weight
	WITH D/SHOCK & STABI.	108 (238)	at Rear Axle Unspring weight	-	ALL	Unsprung weight
	HELPER LEAF WITH	21 (46)	at Rear Axle Unspring weight	-	ALL	Unsprung weight Except 31000lbs spring
	HELPER RUBBER WITH	26 (57)	at Rear Axle Unspring weight	-	ALL	Unsprung weight Except 21000lbs spring
BATTERY	AGM GR31 X 2	11 (24)	0.81 (2.66)	8.91 (64.45)	ALL	
	AGM GR31 X 3	42 (93)	0.81 (2.66)	34.02 (246.07)	ALL	
	BCI GR31 X 3	25 (55)	0.81 (2.66)	20.25 (146.47)	ALL	
BUMPER	+4" 3P	14 (31)	-0.96 (-3.15)	-13.44 (-97.21)	ALL	
	3P	2 (4)	-0.96 (-3.15)	-1.92 (-13.89)	ALL	
	+4"	11 (24)	-0.96 (-3.15)	-10.56 (-76.38)	ALL	
	LESS	-30 (-66)	-0.96 (-3.15)	28.8 (208.31)	ALL	
DIFF. LOCK		9 (20)	at Rear Axle Unspring weight	-	ALL	Unsprung weight Only model NJ, NV
TRAILLER CONNECTION		5 (11)	2.04 (6.69)	10.2 (73.78)	ALL	Only model NV ATM
REAR OVERHANG FRAME	120”	112 (247)	W/B length + 2.086 (W/B length + 6.843)	WEIGHT x GRAVITY POSITION FROM F.A.C.	-	Thickness t=9.5mm(0.37in.) NE W/B=T,Y , NF W/B=ALL NJ W/B=T,Y , NV W/B=ALL
		93 (205)	W/B length + 2.086 (W/B length + 6.843)	WEIGHT x GRAVITY POSITION FROM F.A.C.	-	Thickness t=7.8mm(0.31in.) NE W/B=S NJ W/B=S
TRANSMISSION	ALLISON 3000RDS	130 (287)	0.99 (3.25)	128.7 (930.89)	ALL	Only model NE J08E-VB, NJ J08E-VB
	ALLISON 2500RDS/2500HS	-130 (-287)	0.99 (3.25)	-128.7 (-930.89)	ALL	Only model NV
	ALLISON 3000HS	-18 (-40)	2.04 (6.69)	-36.72 (-265.60)	ALL	Only model NV,NH

※ CAB GRIP (OPT) is included in the standard vehicle weight.

※ OPT：Option Spec.

AXLE / SUSPENSION EQUIPMENT

If you select OPT, subtract the weight of STD and add the weight of OPT.

AXLE / SUSPENSION	BRAKE SYSTEM	RR. SUSPENSION TYPE	SPEC	WEIGHT kg (lb.)	MODEL CODE					UNSPRUNG WEIGHT	REMARKS
					NE8J	NF8J	NJ8J	NV8J	NH8J		
FR. AXLE	HYDRAULIC	-	MFS8	271 (597)	OPT					FR. AXLE	
			MFS10	287 (633)	STD						
			MFS12	287 (633)		STD					
	FULL AIR	-	MFS10	331 (730)			STD	OPT			
			MFS12	331 (730)				STD	STD		
			MFS14	356 (785)				OPT	OPT		
FR. SUSPENSION	ALL	-	8000LBS	101 (222)	OPT		OPT				
			12000LBS	135 (297)	STD	STD	STD	STD	STD		
			14000LBS	153 (337)				OPT	OPT		
RR. AXLE	HYDRAULIC	LEAF	MS17-145	454 (1001)	OPT					RR. AXLE	
			MS19-145	452 (997)	STD						
			MS21-145	454 (1000)		STD					
		AIR	MS17-145	485 (1069)	OPT						
			MS19-145	483 (1065)	STD						
			MS21-145	484 (1068)		STD					
	FULL AIR	LEAF	MS17-145	563 (1241)			OPT				
			MS19-145	566 (1249)			STD				
			MS21-145	567 (1249)				STD			
			RS23-160	637 (1404)				OPT	STD		
		AIR	MS17-145	573 (1263)			OPT				
			MS19-144	576 (1271)			STD				
			MS21-145	596 (1314)				STD			
			RS23-160	667 (1470)				OPT	STD		
			RS25-160	692 (1526)				OPT	OPT		
RR. SUSPENSION	ALL	LEAF	19000LBS	202 (445)	STD		STD	OPT			
			21000LBS	212 (467)		STD		STD			
			23000LBS	218 (480)				OPT	STD		
			31000LBS	218 (480)				OPT	OPT		
		AIR	19000LBS	177 (389)	STD		STD	OPT			
			21000LBS	189 (416)		STD		STD			
			21000LBS SD	226 (498)		OPT		OPT			
			23000LBS	176 (389)				OPT	STD		
			23000LBS SD	218 (480)				OPT	OPT		

・ Refer to another table for AXLE / SUSPENSION combinations.

※ STD : Standard Spec.

※ OPT : Option Spec.

AXLE / SUSPENSION COMBINATION TABLE

			FR				
	AXLE		MFS8	MFS10		MFS12	MFS14
		SUSPENSION	8K	8K	12K	12K	14K
RR	MS17	19K	NE (Low Profile)	NJ (Low Profile)	-	-	-
	MS19	19K	NE	NJ	NE NJ	-	-
	MS21	19K (LEAF)	-	-	NV	NV	NV
		21K	-	-	NV	NF NV	NV
		21K SD (AIR)	-	-	NV	NF NV	NV
		23K (AIR)	-	-	NV	NV	NV
		23K SD (AIR)	-	-	NV	NV	NV
	RS23	23K	-	-	NV	NV NH	NV NH
		31K (LEAF)	-	-	NV	NV NH	NV NH
	RS25	23K SD (AIR)	-	-	NV	NV NH	NV NH

If there is no ( ), set both LEAF and AIR

: STD spec.

	W/B	RR AIR SUS			
		21K	21K SD	23K	23K SD
NV	G	-	-	STD	OPT
	Except G	STD	OPT	OPT	OPT

※ STD：Standard Spec.
※ OPT：Option Spec.

Detail of option tire

STD /OPT	Model	Tire size	Front		Rear		The difference kg (lb)	
			RIB/ LUG	Maker Pattern	RIB/ LUG	Maker Pattern	Front Axle	Rear Axle
STD	ALL	11R22.5-14	RIB	Bridgestone R268	LUG	Bridgestone M726ELA		
OPT	NE	10R22.5-14	RIB	Bridgestone R268	RIB	Bridgestone R268	-11 (-24)	-41 (-90)
					LUG	Bridgestone M726ELA		-44 (-97)
	ALL	11R22.5-14	RIB	Bridgestone R268	RIB	Bridgestone R268	±0 (±0)	-18 (-40)
	NV NH	11R22.5-16	RIB	Bridgestone R250ED	LUG	Bridgestone M770	-4 (-9)	-2 (-4)
					RIB	Bridgestone R250ED		-27 (-60)
	NE NJ	FR:245/70R19.5-14 RR:245/70R19.5-16	RIB	Bridgestone R238	LUG	Bridgestone M729	-36 (-79)	-100 (-221)
		245/70R19.5-16	RIB	Bridgestone R238	RIB	Bridgestone R238	-36 (-80)	-100 (-221)
					LUG	Bridgestone M729		-91 (-201)
		255/70R22.5-16	RIB	Bridgestone R250ED	LUG	Bridgestone M726	-25 (-55)	-57 (-126)
	NE NF NJ NV	295/75R22.5-14	RIB	Bridgestone R268	RIB	Bridgestone R268	-4 (-9)	-26 (-57)
					LUG	Bridgestone M726ELA		-12 (-26)
						Bridgestone M770		±0 (±0)
	NH	FR:295/75R22.5-16 RR:295/75R22.5-14	RIB	Bridgestone R283	LUG	Bridgestone M770	-8 (-17)	±0 (±0)