

Chapter 3

SPECIFICATIONS

1. MODEL LINE-UP
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3. WEIGHT DISTRIBUTION OF THE OPTIONAL EQUIPMENT
4. CAUTIONS TO INSTALL VARIOUS KIND OF BODY

1. MODEL LINE-UP

Model code	Engine	Rr suspension	Cab type	Transmission (T/M)	GVWR					Unit:kg (lb.)	Wheelbase		Unit:mm(in)											
					OPT 10430 (23000)	OPT 11570 (25500)	STD 11770 (25950)	OPT 11770 (25950)	STD 14950 (33000)	STD 15870 (35000)	P	T	V											
											5512 (217)	6426 (253)	6883 (271)											
NEC1	B6.7 (240HP)	LEAF	Day	AUTO T/M (Allison 2200HS)	●	●	●	-	-	-	●	●	●											
				AUTO T/M (Allison 2200RDS)	●	●	●																	
				AUTO T/M (Allison 2500RDS)	-	-	●																	
				AUTO T/M (Allison 2500HS)	-	-	●																	
		AIR	Day	AUTO T/M (Allison 2200HS)	●	●	●	-	-	-	●	●	●											
				AUTO T/M (Allison 2200RDS)	●	●	●																	
				AUTO T/M (Allison 2500RDS)	-	-	●																	
				AUTO T/M (Allison 2500HS)	-	-	●																	
	B6.7 (260HP)	AIR	Day	AUTO T/M (Allison 2200HS)	-	●	●	-	-	-	●	-	-											
				AUTO T/M (Allison 2200RDS)	●	●																		
				AUTO T/M (Allison 2500RDS)	-	-																		
				AUTO T/M (Allison 2500HS)	-	-																		
				AUTO T/M (Allison 3000RDS)	-	-																		
				NFC1	B6.7 (260HP)	LEAF								Day	AUTO T/M (Allison 2500RDS)	-	-	-	-	●	-	●	-	●
						AUTO T/M (Allison 2500HS)								-	-	-	-	●	-	●	●			
					NJC1	B6.7 (240HP)								AIR	Day	AUTO T/M (Allison 2200HS)	-	●	●	-	-	-	●	●
AUTO T/M (Allison 2200RDS)																								
AUTO T/M (Allison 2500RDS)																								
AUTO T/M (Allison 2500HS)																								
B6.7 (260HP)	AIR	Day	AUTO T/M (Allison 2200HS)	-		●	●	-	-	-	●	-	-											
			AUTO T/M (Allison 2200RDS)																					
			AUTO T/M (Allison 2500RDS)																					
			AUTO T/M (Allison 2500HS)																					
NVC1	B6.7 (260HP)	AIR	Day	AUTO T/M (Allison 3000RDS)	-	-	-	●	●	-	●	●	●											
				AUTO T/M (Allison 2500RDS)																				
				AUTO T/M (Allison 3000RDS)																				
				AUTO T/M (Allison 3500RDS)																				
				AUTO T/M (Allison 2500HS)																				
NHC1	B6.7 (260HP)	AIR	Day	AUTO T/M (Allison 3000HS)	-	-	-	-	-	●	●	●	●											
				AUTO T/M (Allison 3000RDS)																				
				AUTO T/M (Allison 3500RDS)																				
				AUTO T/M (Allison 3000HS)																				

※ STD : Standard Spec.

※ OPT : Option Spec.

※ OPT GVWR is different specifications from STD as shown below.

Specification	GVWR Unit:kg (lb.)		10430 (23000)		11570 (25500)		11770 (25950)	
FR. AXLE		MFS8	MFS8※		MFS10	MFS14	—	
FR. SUSPENSION		8000LBS	8000LBS 9000LBS		—	14000LBS	—	
RR. AXLE		MS17-145	MS17-145		—	—	—	
RR. SUSPENSION		—	—		—	19000LBS	19000LBS	
Tire size	Front	10R22.5	245/70R19.5	295/75R19.5	—	295/75R19.5		
	Rear	10R22.5	245/70R19.5	295/75R19.5	—	295/75R19.5		

※ FR.AXLE for NJ&J is MFS10.

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 >

 : No available specifications on the 22MY

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	
FUEL TANK (FOR USA)	50gal X 2	206 (454)	2.44 (8.01)	502.64 (3635.60)	ALL	Except model NH
	90gal X 1	154 (340)	2.15 (7.05)	331.1 (2394.85)	ALL	Except model NH
FUEL TANK (FOR CND)	50gal X 1	-154 (-340)	2.15 (7.05)	-331.1 (-2394.85)	ALL	Only model NH
	50gal X 2					
	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 Unsprung weight		ALL	Unsprung weight
	WITH STABI.	86 (190)	at Rear Axle Unsprung weight		ALL	Unsprung weight
	WITH D/SHOCK & STABI.	108 (238)	at Rear Axle Unsprung weight		ALL	Unsprung weight
	HELPER LEAF WITH	21 (46)	at Rear Axle Unsprung weight		ALL	Unsprung weight Except 31000lbs spring
	HELPER RUBBER WITH	26 (57)	at Rear Axle Unsprung 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 Unsprung weight		ALL	Unsprung weight Only model NJ, NV, NH
EXHAUST SYSTEM	STACK	60.3 (133)	1.84 (6.04)	111.0 (802.52)	ALL	
TRAILER CONNECTION		5 (11)	2.04 (6.69)	10.2 (73.78)	ALL	Only model NV, NH
REAR OVERHANG FRAME	97"	26 (58)	W/B length + 2.235 (W/B length + 7.333)	WEIGHT x GRAVITY POSITION FROM F.A.C.	-	Thickness t=9.5mm NE W/B=G, Y, NF W/B=ALL NJ W/B=G, Y, NV NH W/B=ALL
		21 (46)	W/B length + 2.235 (W/B length + 7.333)	WEIGHT x GRAVITY POSITION FROM F.A.C.	-	Thickness t=7.8mm 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 260HP, NJ 260HP
	ALLISON 2500RDS/2500HS	-130 (-287)	0.99 (3.25)	-128.7 (-930.89)	ALL	Only model NV
	ALLISON 3000HS	-18 (-40)	1.87 (6.14)	-33.66 (-243.46)	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
					NEC1	NFC1	NJC1	NVC1	NHC1		
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				
			9000LBS	107 (236)			STD				
			12000LBS	135 (297)	STD	STD	STD	STD	STD		ONLY EXTENDED / CREW CAB
			14000LBS	153 (337)				OPT	OPT		
RR. AXLE	HYDRAULIC	LEAF	MS-17-14X	454 (1001)	OPT					RR. AXLE	
			MS-19-14X	451 (995)	STD						
			MS-21-14X	445 (980)		STD					
		AIR	MS-17-14X	462 (1019)	OPT						
			MS-19-14X	460 (1013)	STD						
			MS-21-14X	453 (998)		STD					
	FULL AIR	LEAF	MS-17-14X	513 (1131)			OPT				INCLUDING THE WEIGHT OF DIFF LOCK
			MS-17-13X	481 (1061)			OPT				AT ONLY
			MS-19-14X	531 (1171)			STD				IN CASE OF MT:STD/AT:OPT
			MS-19-13X	498 (1098)			STD				AT ONLY
			MS-21-14X	533 (1174)				STD			
			RS-23-160	613 (1352)				OPT	STD		
		AIR	MS-17-14X	520 (1146)			OPT				AT ONLY
			MS-17-13X	489 (1079)			OPT				IN CASE OF MT:STD/AT:OPT
			MS-19-14X	539 (1189)			STD				AT ONLY
			MS-19-13X	506 (1116)			STD				
			MS-21-14X	541 (1192)				STD			
			RS-23-160	619 (1365)				OPT	STD		
			RS-25-160	646 (1424)				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		IN CASE OF NV W/B=G:STD/OTHER:OPT
			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	9K	12K	12K	14K
RR	MS17	19K	NE (Low Profile)	NJ (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

: STD spec

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

9K Front Suspension is applicable only to extended cab / crew cab of NJ low profile model.

		RR AIR SUS			
W/B		21K	21K SD	23K	23K SD
NV	G	-	-	STD	OPT
	Except G G 以外	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	FR:11R22.5-16 RR:11R22.5-14	RIB	Bridgestone R250ED	LUG	Bridgestone M760		
OPT	NE	10R22.5-14	RIB	Bridgestone R268	RIB	Bridgestone M268	-7 (-15)	-40 (-87)
					LUG	Bridgestone M726ELA		-43 (-94)
	ALL	11R22.5-14	RIB	Bridgestone R268	RIB	Bridgestone R268	+4 (+9)	-17 (-38)
					LUG	Bridgestone M726		+1 (+3)
	NV NH	11R22.5-16	RIB	Bridgestone R250ED	LUG	Bridgestone M770	±0 (±0)	-1 (-2)
					RIB	Bridgestone R250ED		-26 (-56)
	NE NJ	Fr:245/70R19.5-14 Rr:245/70R19.5-16	RIB	Bridgestone R238	LUG	Bridgestone M729	-32 (-70)	-99 (-219)
		245/70R19.5-16	RIB	Bridgestone R238	RIB	Bridgestone R238	-32 (-71)	-90 (-198)
					LUG	Bridgestone M729		-99 (-219)
		255/70R22.5-16	RIB	Bridgestone R250ED	LUG	Bridgestone M726	-20 (-45)	-55 (-122)
	NE NJ NV	295/75R22.5-14	RIB	Bridgestone R268	RIB	Bridgestone R268	±0 (±0)	-25 (-55)
					LUG	Bridgestone M726ELA		-11 (-24)
						Bridgestone M770		+2 (+4)
	NH	FR:295/75R22.5-16 RR:295/75R22.5-14	RIB	Bridgestone R213	RIB	Bridgestone M770	-3 (-7)	+2 (+4)

4. CAUTIONS TO INSTALL VARIOUS KIND OF BODY

1. The vehicle center of gravity of the complete vehicle should be equal to or less than 1778mm (70in.) from the ground.
2. Do not shorten the vehicle's wheelbase to less than 3861mm (152in.).
3. 90% or more of the operating conditions should be on a good paved road.
4. When installing a tank or refrigerated body on an air suspension equipped NV or NH chassis, choose the reinforced air suspension (option).
5. Installation of a Dump body is not recommended on the air suspended models.
6. A 3861mm (152in.) wheelbase is recommended when mounting a dump body on a NE and NJ models.
7. When installing a vocational equipment like as a dump body or a tank body etc. on NV or NH chassis, choose 120psi frames.