

Chapter 3

SPECIFICATIONS

1. MODEL LINE-UP
2. WEIGHTS AND DIMENSIONS
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)	N	P	S	T	V	G	J	L	M	R	W	Y										
											5385 (212)	5512 (217)	6147 (242)	6426 (253)	6883 (271)	3861 (152)	4445 (175)	4750 (187)	5207 (205)	5969 (235)	7112 (280)	7645 (301)										
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)	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 3000RDS)	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-												
				AUTO T/M (Allison 2200HS)	-	●																										
				AUTO T/M (Allison 2200RDS)	●	●																										
				AUTO T/M (Allison 2500RDS)	-	-																										
NFC1	B6.7 (260HP)	LEAF	Day	AUTO T/M (Allison 2500RDS)	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-													
				AUTO T/M (Allison 2500HS)	-	-																										
		AIR	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 3000RDS)	-	●																										
NVC1	B6.7 (260HP)	AIR	Day	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 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.

GVWR Unit:kg (lb.)		10430 (23000)	11570 (25500)	11770 (25950)	
Specification					
FR. AXLE	MFS8	MFS8※	MFS10	MFS14	-
FR. SUSPENSION	8000LBS	8000LBS 9000LBS	-	14000LBS	-
RR. AXLE	MS-17-14X	MS-17-13X MS-17-14X	-	-	-
RR. SUSPENSION	-	-	-	19000LBS	19000LBS
Tire size	Front	10R22.5	245/70R19.5	295/75R22.5	-
	Rear	10R22.5	245/70R19.5	295/75R22.5	-

※ FR.AXLE for NJC1 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 23MY

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)	189L(50GAL) X 2	203 (448)	2.43 (7.96)	492.668 (3563.47)	ALL	Except model NH
	340L(90GAL) X 1	154 (340)	2.15 (7.05)	331.1 (2394.85)	ALL	Except model NH
FUEL TANK (FOR CND)	189L(50GAL)X 1	-154 (-340)	2.15 (7.05)	-331.1 (-2394.85)	ALL	Only model NH
	189L(50GAL)X 2	203 (448)	2.43 (7.96)	492.668 (3563.47)	ALL	Except model NH
		51 (112)	3.33 (10.93)	169.83 (1228.38)	ALL	Only model NH
	340L(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	FULL AIR BRAKE	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(0.37in.) NF W/B=ALL 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(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 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	272 (600)	OPT					FR. AXLE	
			MFS10	287 (633)	STD						
			MFS12	287 (633)		STD					
	FULL AIR	-	MFS10	331 (730)			STD	OPT			FOR DRUM BRAKE
			MFS10	366 (807)			OPT				FOR DISK BRAKE
			MFS12	331 (730)				STD	STD		FOR DRUM BRAKE
			MFS12	366 (807)				OPT			FOR DISK BRAKE
			MFS14	356 (785)				OPT	OPT		
FR. SUSPENSION	ALL	-	8000LBS	101 (222)	OPT		OPT			RR. AXLE	
			12000LBS	135 (297)	STD	STD	STD	STD	STD		
			14000LBS	153 (337)				OPT	OPT		
	HYDRAULIC	LEAF	MS-17-14X	454 (1001)	OPT						
			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	AIR	MS-17-14X	520 (1146)			OPT				
			MS-17-13X	489 (1079)			OPT				
			MS-19-14X	539 (1189)			OPT				FOR DRUM BRAKE
			MS-19-14X	533 (1176)			OPT				FOR DISK BRAKE
			MS-19-13X	506 (1116)			STD				FOR DRUM BRAKE
			MS-19-13X	500 (1103)			OPT				FOR DISK BRAKE
			MS-21-14X	541 (1192)				STD			FOR DRUM BRAKE
			MS-21-14X	535 (1179)				OPT			FOR DISK BRAKE
			RS-23-160	619 (1365)				OPT	STD		
			RS-25-160	646 (1424)				OPT	OPT		
RR. SUSPENSION	ALL	LEAF	19000LBS	202 (445)	STD					RR. AXLE	
			21000LBS	212 (467)		STD					
			23000LBS	218 (480)							
			31000LBS	218 (480)							
		AIR	19000LBS	177 (389)	STD		STD				
			21000LBS	189 (416)		STD		STD			
			21000LBS SD	226 (498)		OPT		OPT			
			23000LBS	190 (419)				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	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	NV
						NH	NH
	RS25	23K SD (AIR)			NV	NV	NV
NH						NH	
							: STD spec

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

: STD 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 M726ELA		+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 NF	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 120Kpsi frames.