BM2144A6USA

2023 Body Builder Book

COVER

XL SERIES

HINO

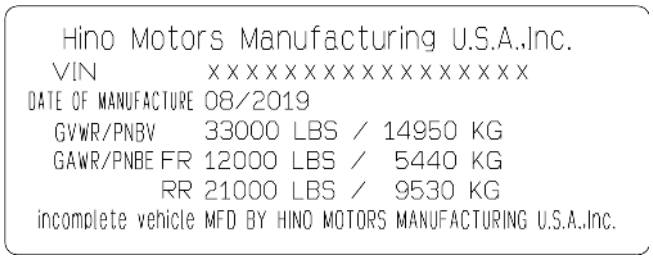
Information Label

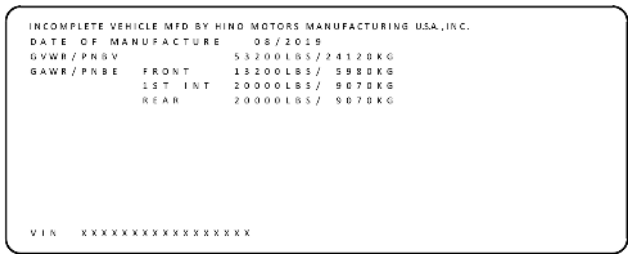
All incomplete vehicles manufactured by HML or HMM (USA) or HMC for sale in the United States are furnished with an “Information label” under the provision of Part 567 of Title 49, Code of Federal Regulations (49 CFR 567).
This label contains the statements that the vehicle is an incomplete vehicle. The degree of compliance is contained in “Document for Incomplete Vehicle”, and that conformity with the other FMVSS is not substantially affected by the design of the incomplete vehicle.

The party installing a body or equipment to complete the vehicle for delivery will be responsible to see that the completed vehicle meets all applicable FMVSS. For certification of compliance, the completed vehicle should affix a final certification label securely and permanently to the vehicle.

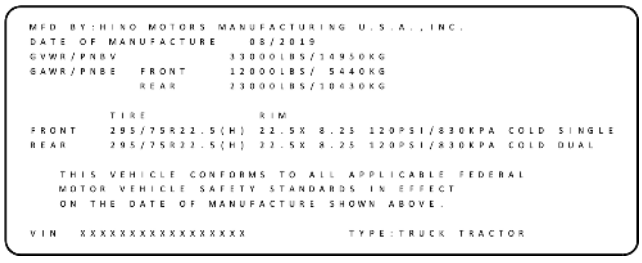
Detail of Information Label

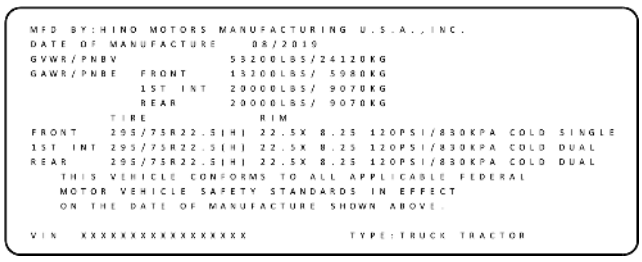
- Incompleted vehicle for Trucks.
  (Example)





- Completed vehicle
  (Example)





1. MODEL LINE-UP

Unit:mm(in)

Model code	Engine	Rr suspension	Cab type	Transmission (T/M)	Wheelbase															
					G	H	J	K	L	L (opt)	M	N	P	R	T	V	W	X	Y	Y (opt)
					3861 (152)	4191 (165)	4445 (175)	4597 (181)	4750 (187)	4978 (196)	5207 (205)	5385 (212)	5512 (217)	5969 (235)	6426 (253)	6883 (271)	7112 (280)	7341 (289)	7569 (298)	7722 (304)
NHC2	L9 (300HP)	LEAF	Day	AUTO T/M (ALLISON 3000RDS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
				AUTO T/M (ALLISON 3500RDS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
				AUTO T/M (ALLISON 3000HS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
		AIR		AUTO T/M (ALLISON 3000RDS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
				AUTO T/M (ALLISON 3500RDS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
				AUTO T/M (ALLISON 3000HS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
	L9 (330HP)	LEAF	Day	AUTO T/M (ALLISON 3000RDS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
				AUTO T/M (ALLISON 3000HS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
			Extended	AUTO T/M (ALLISON 3000RDS(6AT))									●	●	●					●
				AUTO T/M (ALLISON 3000HS(6AT))									●	●	●					●
			Crew	AUTO T/M (ALLISON 3000RDS(6AT))						●					●					
				AUTO T/M (ALLISON 3000HS(6AT))						●					●					
		AIR	Day	AUTO T/M (ALLISON 3000RDS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
				AUTO T/M (ALLISON 3000HS(6AT))	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●
			Extended	AUTO T/M (ALLISON 3000RDS(6AT))									●	●	●					●
				AUTO T/M (ALLISON 3000HS(6AT))									●	●	●					●
			Crew	AUTO T/M (ALLISON 3000RDS(6AT))						●					●					
				AUTO T/M (ALLISON 3000HS(6AT))						●					●					
THC2	L9 (330HP)	AIR	Day	AUTO T/M (ALLISON 3000HS(6AT))	●	●														

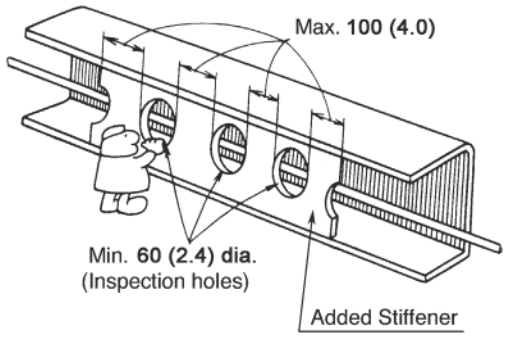
When using additional spring leaves, do not use more than we have provided for option for the excessively increased front spring leaves will cause interference with the position of the steering link and the excessively increased rear spring leaves will may cause the propeller shaft to be damaged by seizure or noises.

Be careful that the mounted body may not interfere with the front and rear field of vision.

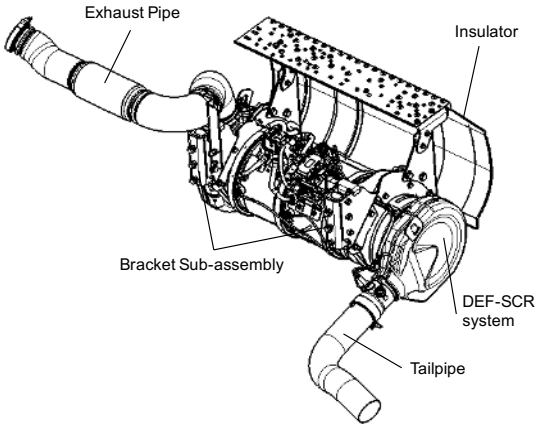
When a concentrated load is applied locally or the body is long, the amount of deflection may pose problems in some cases. So, it is advisable to use □ or ⊏ or ⊏ shaped steel beams as the main sill, and joint them securely to the side members in order to obtain sufficient overall strength and rigidity.
When a body with a great rigidity is mounted as in the case of tank tanker and bulk cement carriers, please make reference to the paragraph devoted to the main sill to prevent a weak point appearing at the rear of the cab.

Cautions when mounting the body near brake units and brake pipe lines
- The valves shall be made serviceable and detachable.
- When a corrosive property is loaded on the body, use appropriate protective means to protect the pipe lines.
- Be careful to ensure sufficient clearance at least 30 mm (1.2 in.) between the brake pipe lines and the parts of body.
- Make the inspection and working holes if the side rail is stiffened as a closed section.

Unit : mm (in.)



Cautions needed when mounting the body above exhaust pipe and aftertreatment device.
- There must be the following clearances between exhaust pipe and others to be mounted on the vehicle.
  More than 100 mm (4.0 in.) from wood, rubber, cloth, resins and the like.
  More than 25 mm (1.0 in.) from metal parts.
  More than 200 mm (8.0 in.) from electric wire, brake hose or tube.
  But, heat shields or insulators must not added to Aftertreatment device.



5. THE FUEL NYLON TUBE

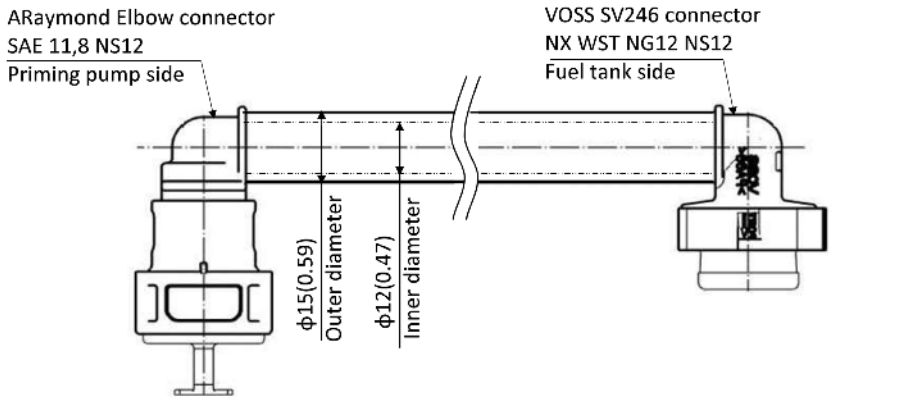
Be sure to observe the following instructions, if it will be changed a fuel nylon tube by a movement or an addition of a fuel tank.

Always use the fuel nylon tube which is same diameter as original and the HINO genuine parts.

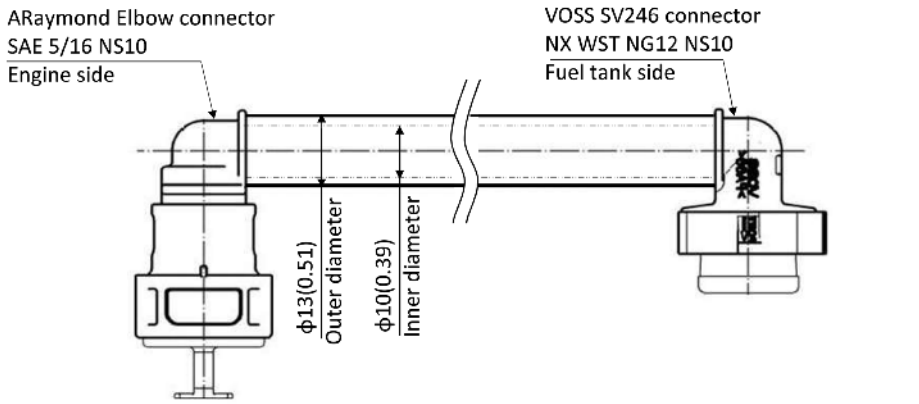
The following figure is an example of genuine parts.
(The material and quality of each component are based on the standard of HINO.)

Feed line

Unit: mm(in.)



Return line



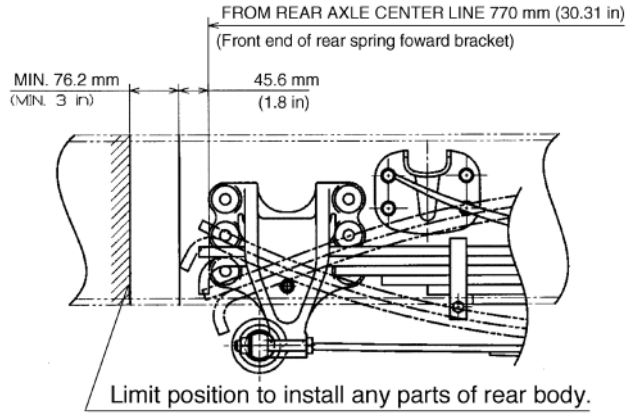
If HINO genuine parts cannot be obtained, please procure the following rubber hoses as a substitute.

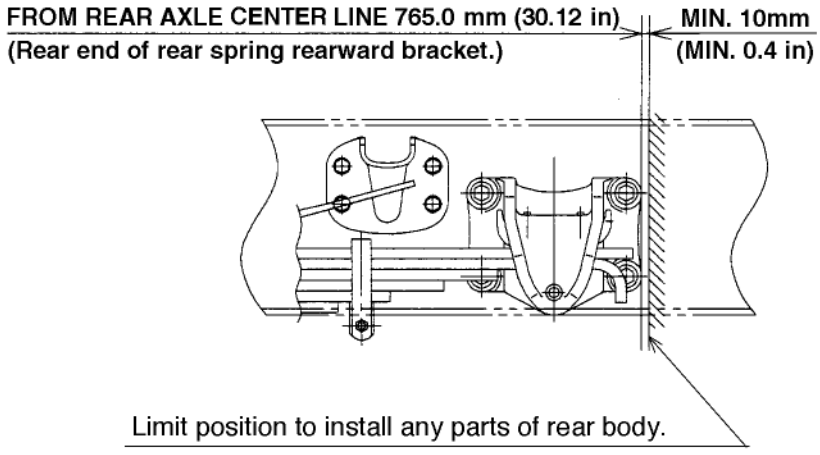
Nylon tube : Composed of PA11 or PA12 material.
Rubber hose : Fluorine coated inner surface.
Steel pipe : Ni-Plated inner surface.

Use of unsuitable rubber hose may cause engine damage.
The length shall be such that it meets the pressure drop requirements specified by Cummins.
For more detailed information, please contact HMS (USA) or Hino authorized dealer.

10. MINIMUM CLEARANCE WITH REAR SPRING AND REAR SPRING HANGER

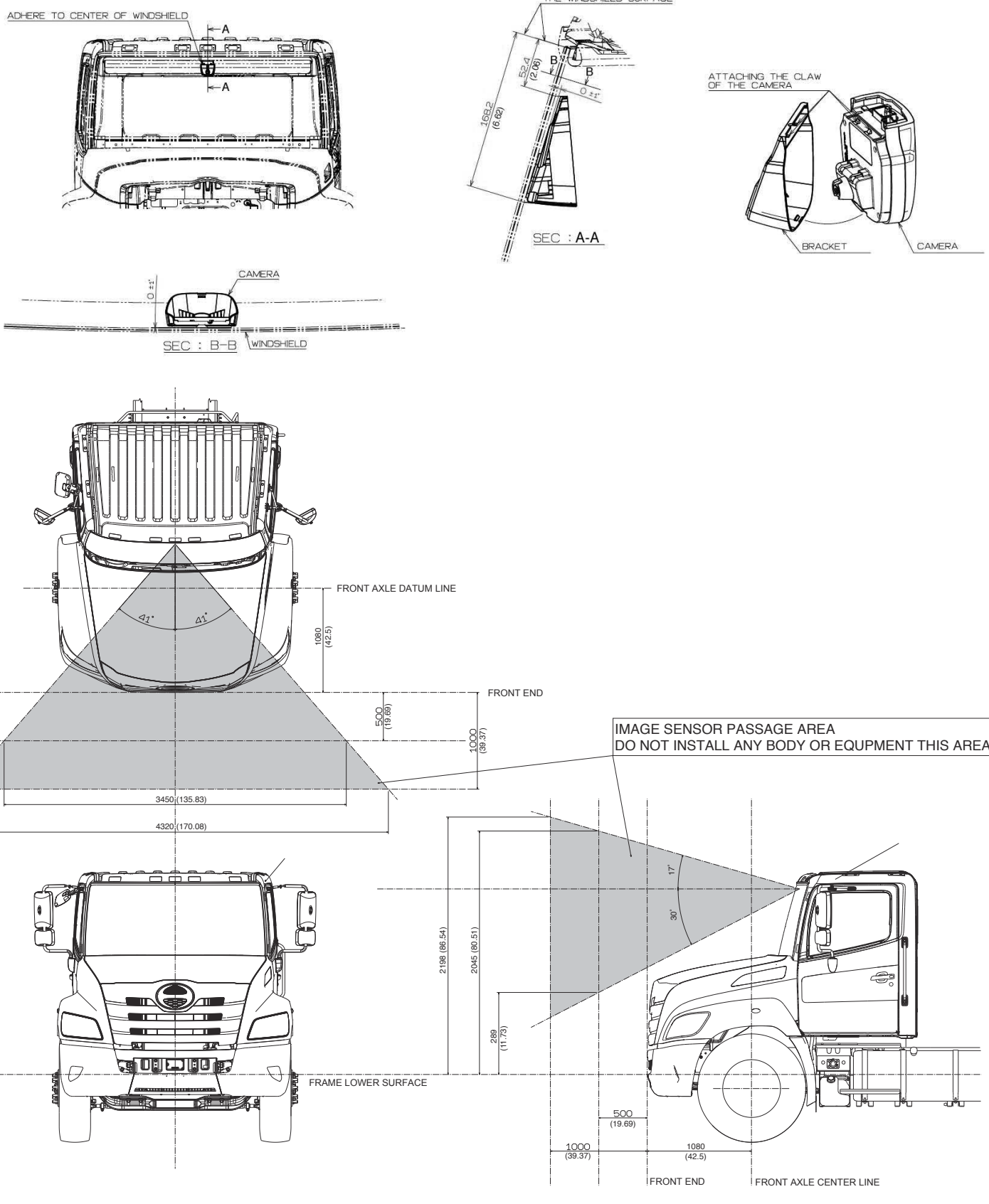
For Spring Suspension
Model : ALL





Unit : mm (in.)

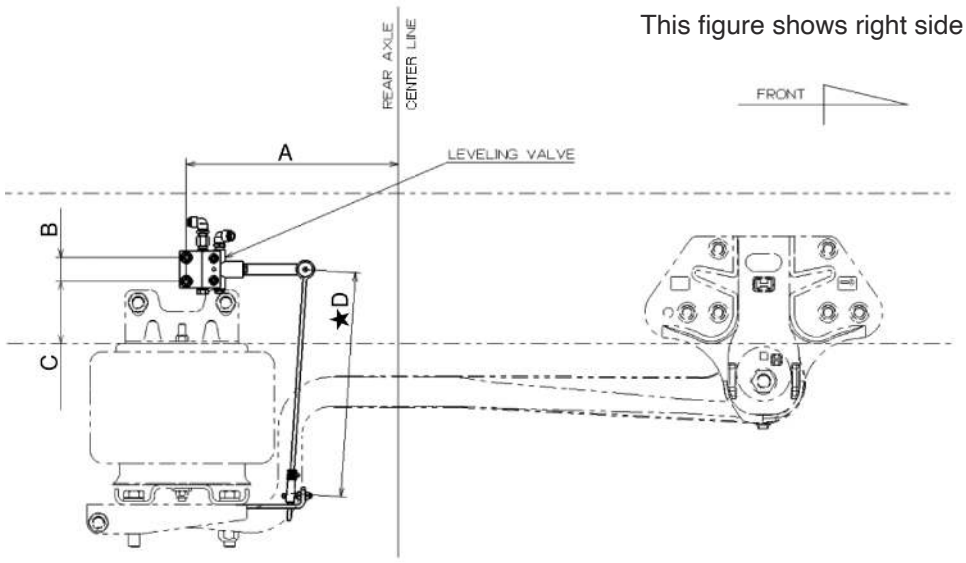
The Lane Recognition Sensor



Unit : mm (in.)

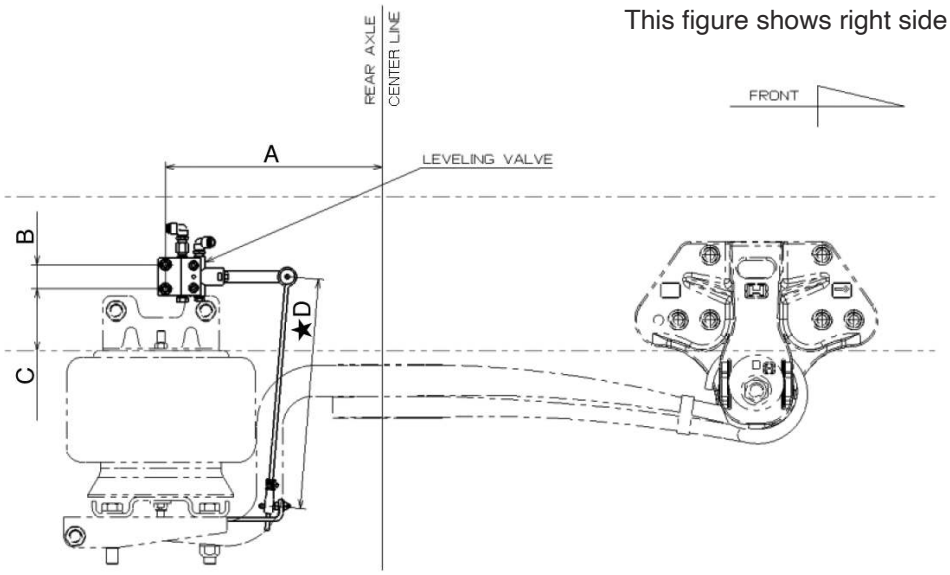
• DUAL LEVELING VALVE FOR MODEL NH,NM & TM

This figure shows right side



• REINFORCED AIR SUSPENSION
& DUAL LEVELING VALVE FOR MODEL NH,NM,TM & TH

This figure shows right side



Unit : mm (in.)

SUSPENSION	A	B	C	D
21K CA	367.5(14.47)	41.3(1.63)	104.5(4.11)	389(15.32)
23K CA	367(14.45)	41.3(1.63)	95.5(3.76)	389(15.32)
40K CA	392.3(15.44)	41.3(1.63)	106.9(4.21)	490.3(19.3)
46K CA	367(14.45)	41.3(1.63)	95.5(3.76)	389(15.32)

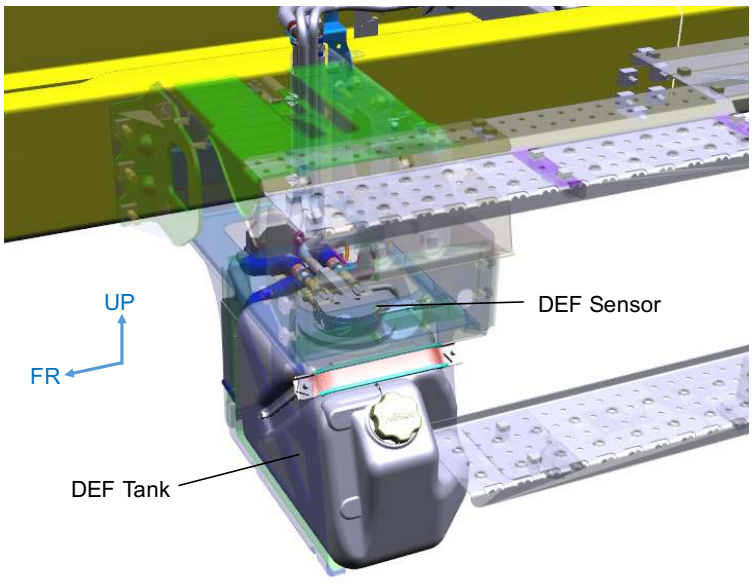
Precautions when body mounting and welding

WARNING
Removal, installing on different place, painting and modification of any parts of DEF - SCR system is prohibited.

- When mounting body and equipment, cover the whole system not to damage system parts, especially the sensor connectors of DEF, NOx and PM.
- Do not impact each system parts. Be careful not to impact the DEF tank because it is made of resin.
- When welding work, cover whole system with nonflammable material to avoid the damage by welding spatter, and the influence by heat.
  Before welding, turn the starter switch to "LOCK" position, wait at least 10 minutes, and disconnect the negative terminal of battery.
- Be sure to wait for at least ten minutes after the stater switch is turned to “LOCK” position before you disconnect the battery terminals from the battery, as DCU starts working for “After Run” after the starter switch is turned to “LOCK” position.
  Otherwise, DCU will not complete working properly (the DEF still remains in the exhaust gas after treatment system), which may result in the malfunction of DEF-SCR system.

  What is the meaning of After Run
  - After you turn the starter switch to “LOCK” position.
  - To avoid crystallizing of the DEF that remains in the DEF pump, injection and pipes, the exhaust gas after treatment system automatically returns the DEF to the DEF tank.
  - You can hear the sound of the DEF pump after you turn the starter switch to the “LOCK” position is proper actuation.
  - The time when the sound of the DEF pump can be heard may vary.

- If remove the DEF tank temporary when mounting body, should protect DEF sensor connector from water.
- Around the filling port of DEF tank, body mounting or installing parts should not be done in a way to obstruct replenishing DEF.
  See the figure below.
- If you need to replace any parts related to DEF- SCR system, use of Hino genuine parts is required for the proper function of DEF-SCR system.

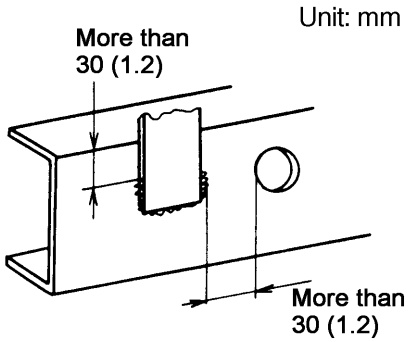


25. VEHICLE STORAGE

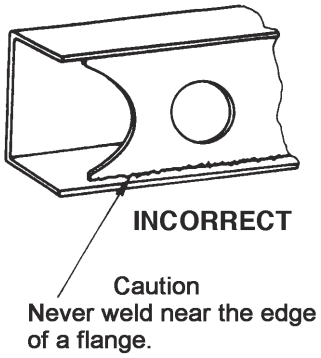
We deliver only the vehicles which have passed our delivery inspection. However, it frequently happens that when the vehicles (chassis with cab) are kept in a storage of the dealers or rear body manufacturers for long periods of time, the vehicles are placed on the irregular-surfaced ground in the manner in which their frames are twisted. If the frame is kept in a twisted state for a long time, it will be permanently deformed, thus becoming a cause of complaints to be lodged later. So, you are requested to make sure that the surface of the ground on which the vehicles are stored be levelled to prevent the twisting the frame.

Welding Positions

Side rail web welding must be conducted at least 30 mm (1.2 in.) away from the edges of the side rail or any hole.



Never weld near the edge of a flange.

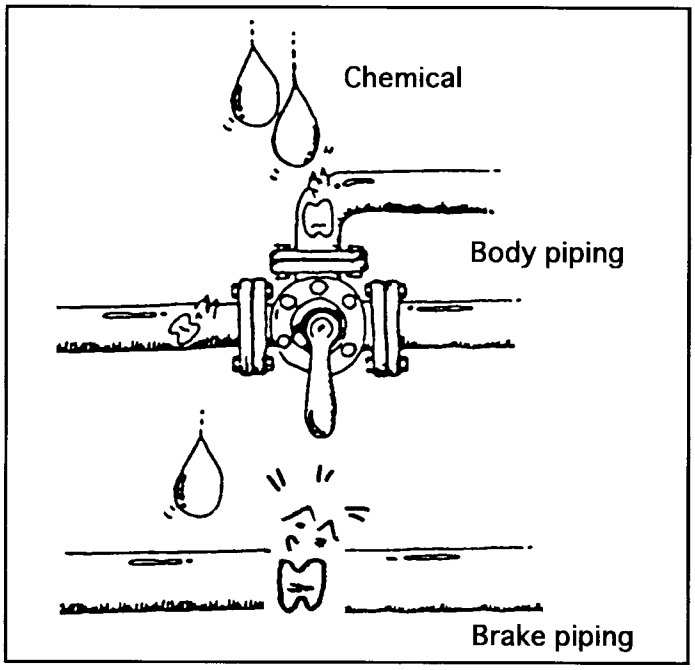


In welding, make sure that there is no undercut or the overlap of the bead and a pin hole.

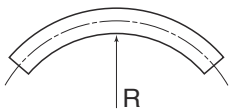
Allow sufficient clearance between the brake pipes, hoses, nylon tubes and mounted body or equipment.
When mounting the body or equipment, make sure that body and equipment do not interfere with the brake system.

- Clearance with engine
- Clearance with brake component parts
  (Pipes, hoses, nylon tubes,devices of ABS, etc.)
- Clearance with hoses around axles
  (Must be consider the maximum movement of axles)
- Clearances with rubber parts
  (For more details of required clearances, see “PIPING CLEARANCE” here in after.)

Condensation and corrosion prevention of piping
Corrosion of brake piping for body applications such as, but not limited to liquid oxygen truck, vacuum tank truck, or tanker truck is promoted by condensation.
(Such as the liquid oxygen inlet/outlet.)
Keep the brake piping away from or cover it with a protective plate at portions where dew forms or water drops easily.



Precautions to take for handling nylon tubes when mounting the body

<table>
<tr><th></th><th>Point to pay attention for handling</th><th colspan="2">Contents</th><th>Influence on the performance</th></tr>
<tr><td>1</td><td>Protection of nylon tube when welding or grinding with a sander.</td><td colspan="2">Fit a protecting cover on the nylon tube or remove it according to the necessity.</td><td>If welding sparks, etc are projected on the nylon tube, the tube may melt and cause air leakage sometimes.</td></tr>
<tr><td>2</td><td>Protection of nylon tube when a body or equipment interfere with nylon tube.</td><td colspan="2">Securely fix a body or equipment with a clamp to the nylon tube protected with corrugated tube existing around it.</td><td>If nylon tube keeps on interfering with a body or equipment, the tube may break and cause air leaking sometimes.</td></tr>
<tr><td>3</td><td>Prevention of introduction of foreign matters into the nylon tubes and connectors.</td><td colspan="2">When dismounting and remounting the nylon tubes and the connectors, cover them with vinyl sac, etc (sac producing fiber dust is not suitable) to prevent sticking and / or introduction of foreign matters.</td><td>Biting of foreign matters by valves and connectors may sometimes cause air leakage or malfunctioning of valves.</td></tr>
<tr><td rowspan="5">4</td><td rowspan="5">Protection against interference of nylon tubes.</td><td>Matching parts</td><td>Gap</td><td rowspan="5">Holes may sometimes appear on the tubes and pipes due to rubbing and wear and may result in air leakage.</td></tr>
<tr><td>Chassis parts (fixing position)</td><td>5mm (0.2 in.)</td></tr>
<tr><td>Engine,transmission, cab, etc (relative moving position)</td><td>30mm (1.2 in.)</td></tr>
<tr><td>Tires, propeller shaft, etc (rotating position)</td><td>50mm (2.0 in.)</td></tr>
<tr><td>Components for upper structures</td><td>Equivalent to the above</td></tr>
<tr><td>5</td><td>Securing gaps with exhaust system.</td><td colspan="2">Secure gaps of more than 200mm (7.9 in.) between the nylon tubes and the exhaust system (exhaust pipe, muffler, etc) or protect the tubes by covering them with insulators, etc. Also, be sure to fit insulators on the flange section of the exhaust system.</td><td>High temperature due to the heat of the exhaust system may cause sometimes melting of the tubes and may result in air leakage.</td></tr>
<tr><td>6</td><td>Prevention of swinging of the nylon tubes.</td><td colspan="2">Provide appropriate clip bands to the nylon tubes to avoid swinging of the tubes after mounting. :
• Gaps of the clip bands should have pitches less than 400mm (15.7 in.).
• Clip band to use : S4783-71230</td><td>If the clip gap is too big, tubes may swing to rub against other parts and may cause contact wear, this leading sometime to occurrence of air leakage.</td></tr>
<tr><td>7</td><td>Securing of bending "R" for nylon tubes.</td><td colspan="2">The minimum bending "R" for the nylon tubes should be as indicated on the following table. Avoid bending the tubes with the bending "R" smaller than the one indicated in the table.
 

<table><tr><th>Outside diameter of nylon tube</th><th>R mm (in.)</th></tr><tr><td>1/4"</td><td>41 (1.6)</td></tr><tr><td>3/8"</td><td>74 (2.9)</td></tr><tr><td>1/2"</td><td>88 (3.5)</td></tr></table></td><td>If a tube is bent with the bending "R" less than the minimum bending "R" ,,the air may be clogged by broken tube and air leakage may occur by the end position of the connector.</td></tr>
</table>

12. CAUTIONS NEEDED IN ADDITIONAL MACHINING AND ALTERATION OF THE CAB

When the cab floor has been drilled or notched in order to install some device, appropriately steel stiffener around the hole or notch, since the floor is reduced in strength by making holes or notches. Where the lever and the like passes through the floor, use a rubber boot and the like to seal off the gap to shut off a draft and noise.

In case of cab alteration, pay attention to rust prevention.

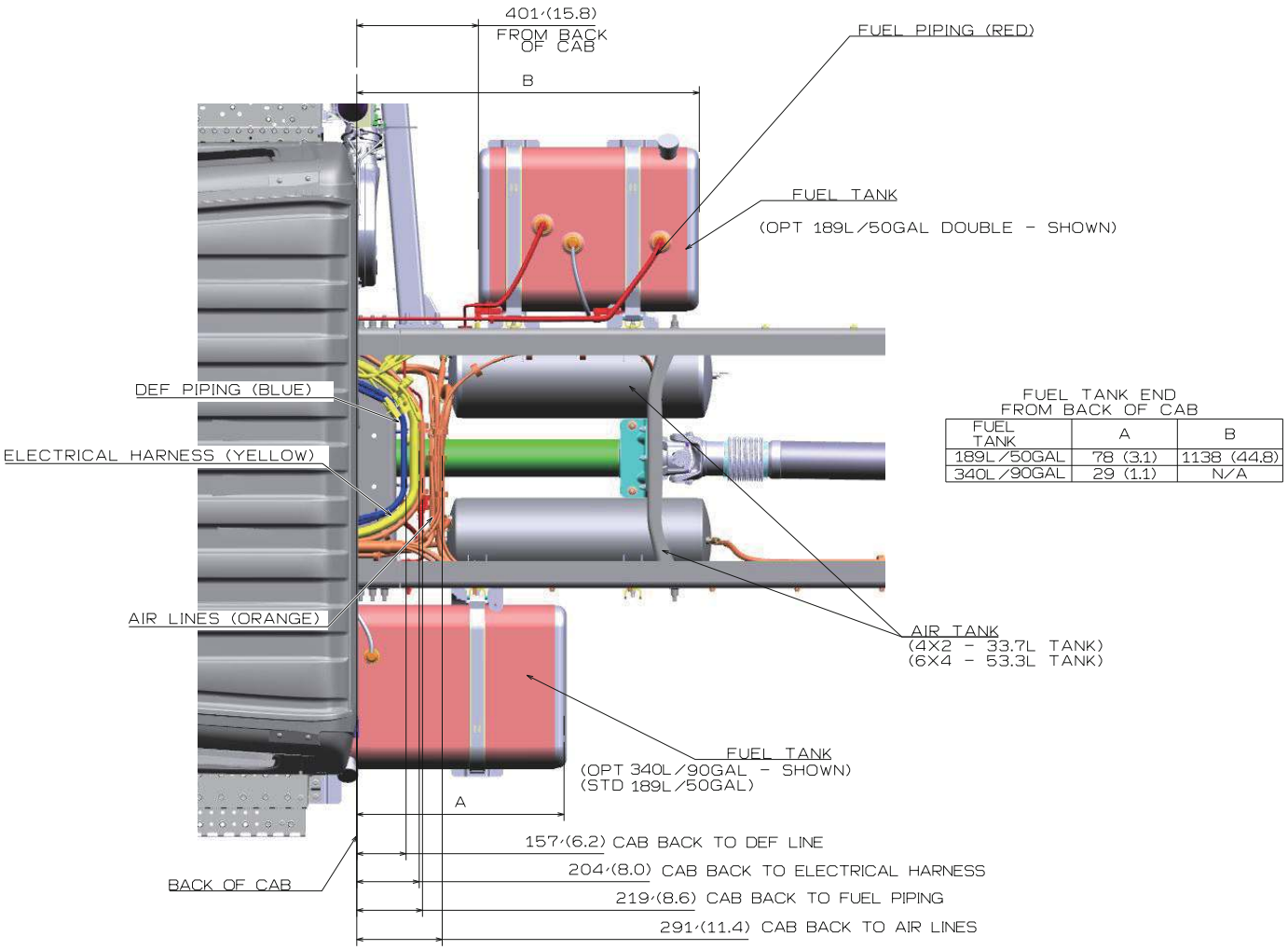
Considerations are needed not to hamper the accessibility to the heater cover and other parts for service.

[DETAIL OF CAB BACK VIEW]

Unit: mm (in.)

UPPER VIEW

< Day Cab >

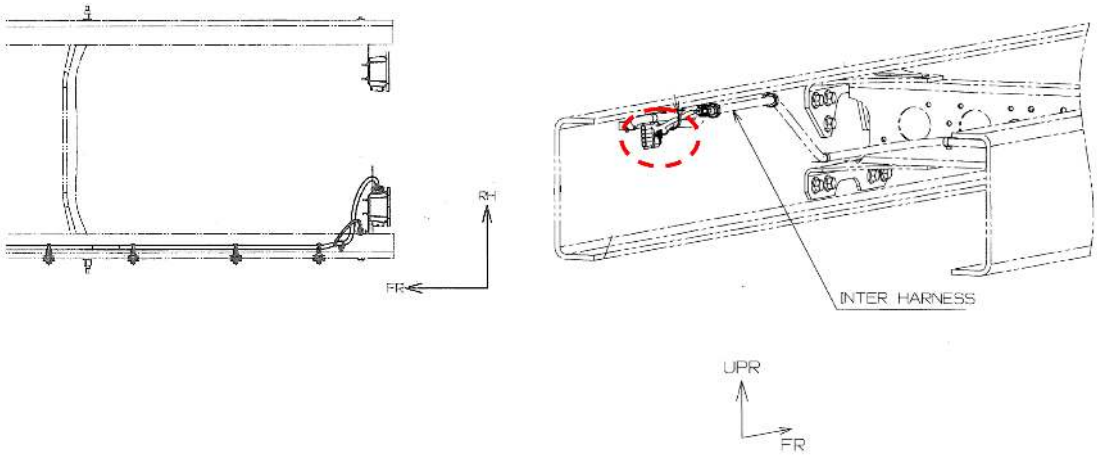


FUEL TANK END FROM BACK OF CAB

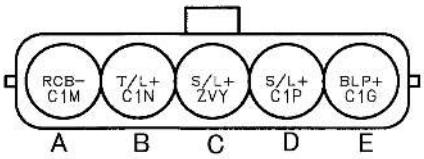
FUEL TANK	A	B
189L/50GAL	78 (3.1)	1138 (44.8)
340L/90GAL	29 (1.1)	N/A

Case of rear combination lamp less option

The connector for rear combination lamp is provided at the end of LH side rail.
See the following figure.
Please prepare rear combination lamps which complied with FMVSS108 and the harness which links LH and RH side lamp.
Install them to comply with FMVSS108.



Detail of connector



A:GROUND (BLACK)
B:TAIL (GREEN)
C:STOP & TURN RH (VIOLET)
D:STOP & TURN LH (YELLOW)
E:BACK (RED)

Cautions Regarding Additional Turn Signal Lamps

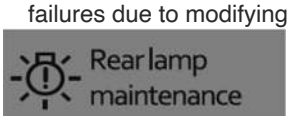
This is to avoid a possible failure of BCM (Body Control Module) arising from excessive electrical loading due to the mounting of additional turn signal lamps to the BCM of the vehicle.

The BCM on each vehicle is designed to accommodate the total wattage of the turn signal lamps.
Must consider the function of the turn signal including the hazard warning for proper working when changing design of the turn signal lamps.

The turn signal lamps on each vehicle meet the FMVSS, and no additional lamp is needed in this regard so long as the vehicle is used as it was designed.

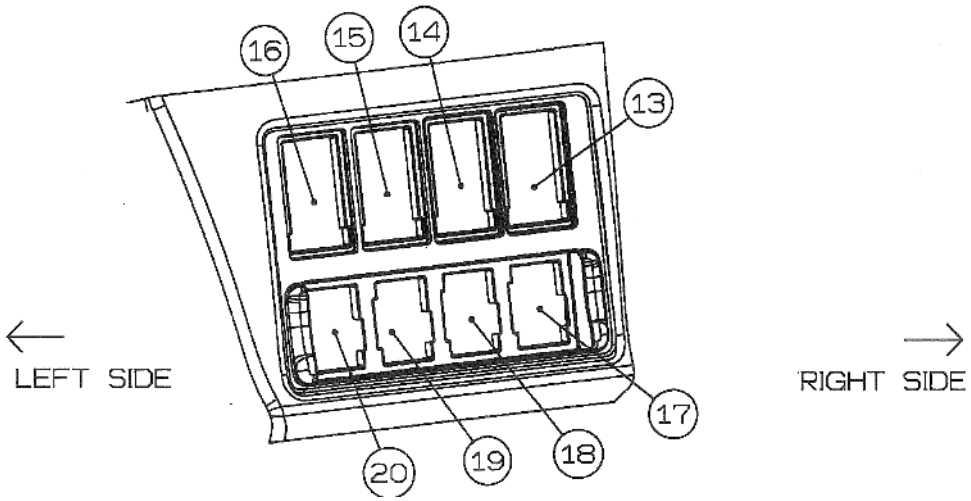
When you intend to add side turn signal lamps, install them according to the NOTE of paragraph ELECTRICAL POWER SOURCES.

Note
1) If sperating rear stop lamp and turn signal lamp, please see the chapter 7 " INSTALLATION OF FLASHER CUTTING" and modify.
2) If the following warning light is displayed on the meter, some failures are occurred due to modifying. Possible failures due to modifying are case1) to case 3).



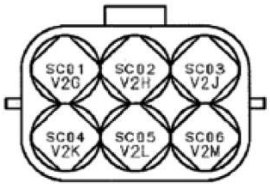
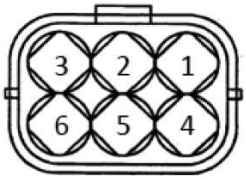
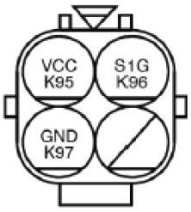
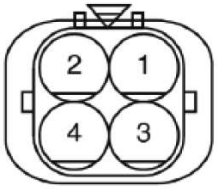
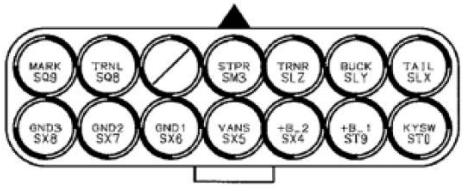
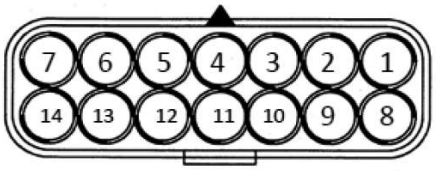
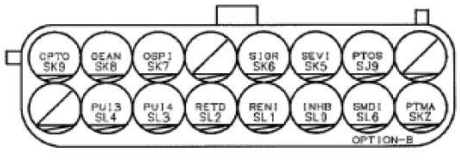
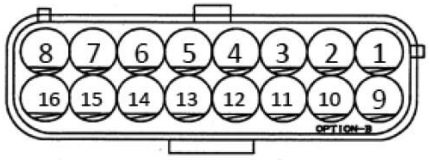
<Possible modification failures>
Case 1): BCM output for stop lamps(Stop & Ture lamps) are short circuit to GND (= failure situation)
Case 2): BCM output for stop lamps(Stop & Turn lamps) are short circuit to Power supply (=failure situation)
Case 3): Stop & Turn Fuse (Fuse name: TRUN_STOP_10A) for BCM is blown or removed (=failure situation)

③ D LOWER LEFT SIDE



The equipped location	Popular name	Symbol
13	POWER WINDOW SW (RR RH)	
	SW LESS	—
14	POWER WINDOW SW (RR LH)	
	SW LESS	—
15	HEIGHT CONTROL SW	
	SW LESS	—
16	RHEOSTAT SW	
17	SW LESS	—
18	SW LESS	—
19	SW LESS	—
20	SW LESS	—

• CHASSIS FRAME SIDE

MARK	CONNECTOR	
	VEHICLE SIDE	COMPANION SIDE
E	 ※ CPA mounting recommended	
	Delphi PART No.12020833 (HINO PART No.S8284-E0280)	Delphi PART No.12124107 (HINO PART No.S8281-E0D40)
F		
	HINO PART No.S8256-01260	HINO PART No.S8256-01250
G		
	Delphi PART No.54201411 (HINO PART No.S8281-E0M70)	Delphi Part No.54201415 (HINO Part No.S8281-E0M80)
H		
	Delphi PART No.54241631 (HINO PART No.S8281-E0M20)	Delphi PART No.54241601 (HINO PART No.S8281-E0M30)

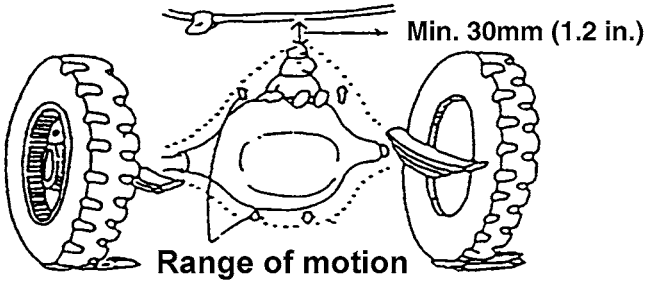
When soldering, do not use chlorine.

If you intend to move the battery or modify the battery cable layout, do not extend or shorten the battery cable.
If you move the battery, resistance of the extended harness wire should be below 45milli-Ohms. Otherwise critical burner failure can be brought.
In areas where the battery cables are subject to movement due to relative motion of the starter and the side rail, do not modify the clamping method, positions of clamps, or the amount of slack in the cables.

Clamp harness wire firmly to prevent it from contacting the moving or vibrating parts of the chassis or rear body, and any sharp edges or corners.

[CLEARANCES FOR WIRE]

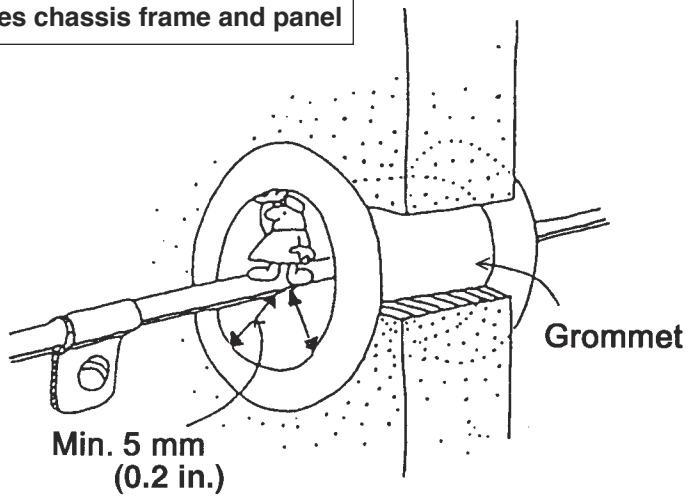
POSITION	CLEARANCES
• Between moving parts and wiring.	At the close point : min. 30mm (1.2 in.)
• Between sharp edges or comers and wiring.	Minimum clearance : min. 10mm (0.4 in.)



Where harness wire passes through the chassis frame or a panel, always use a grommet to prevent damage to the harness wire and potential short circuits.

EXAMPLE OF USING GROMMET

Protection of harness wire which penetrates chassis frame and panel



8. BODY BUILDER CAN

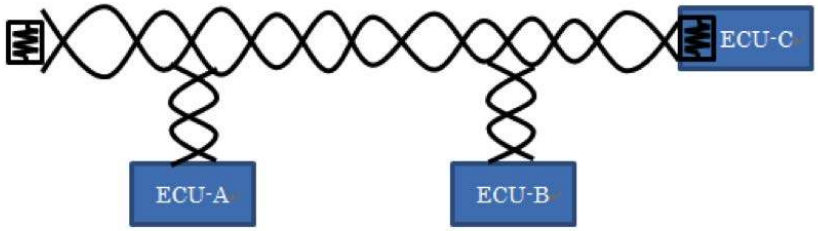
■ Basic configuration of CAN (Controller Area Network)

The CAN communication line consists of two communication lines (CAN - H and CAN - L) twisted in pairs.

It is necessary to have a resistance value of 60 Ω between CAN - H / L, and in general, a 120 Ω resistor is connected to both ends of the communication line.

The section between the terminating resistors is called the back bone, and the section branching from this section is called the branch (Stub).

The ECU is connected to the Stub or to the end of the Back Bone in the case of an ECU with a built-in terminating resistor



■ CAN communication method

Since CAN is digital communication, it carries information at 0 and 1, but 0 and 1 are represented by the voltage difference between CAN - H / L lines.

•1(Recessive State)

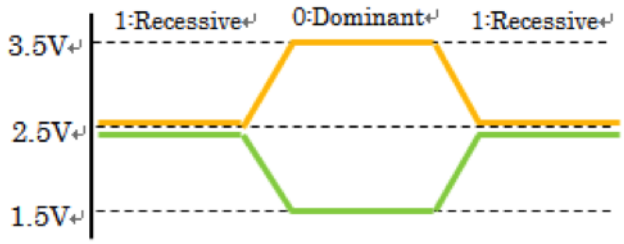
“CAN - H / L is normally held at a potential of 2.5 V. In case

There is no potential difference between H / L lines by this.”

•0(Dominant State)

The CAN - H line is boosted to around 3.5 V, and conversely, the CAN - L line is stepped down to around 1.5 V.

This creates a potential difference between the H / L lines.



At the time of reception, the controller connected to the CAN line detects the voltage difference between the H / L lines, judges 0 and 1,When transmitting, generate voltage difference between H / L lines and express 0, 1,.

Method of Taking Out The Rear Turn Lamp Circuit.

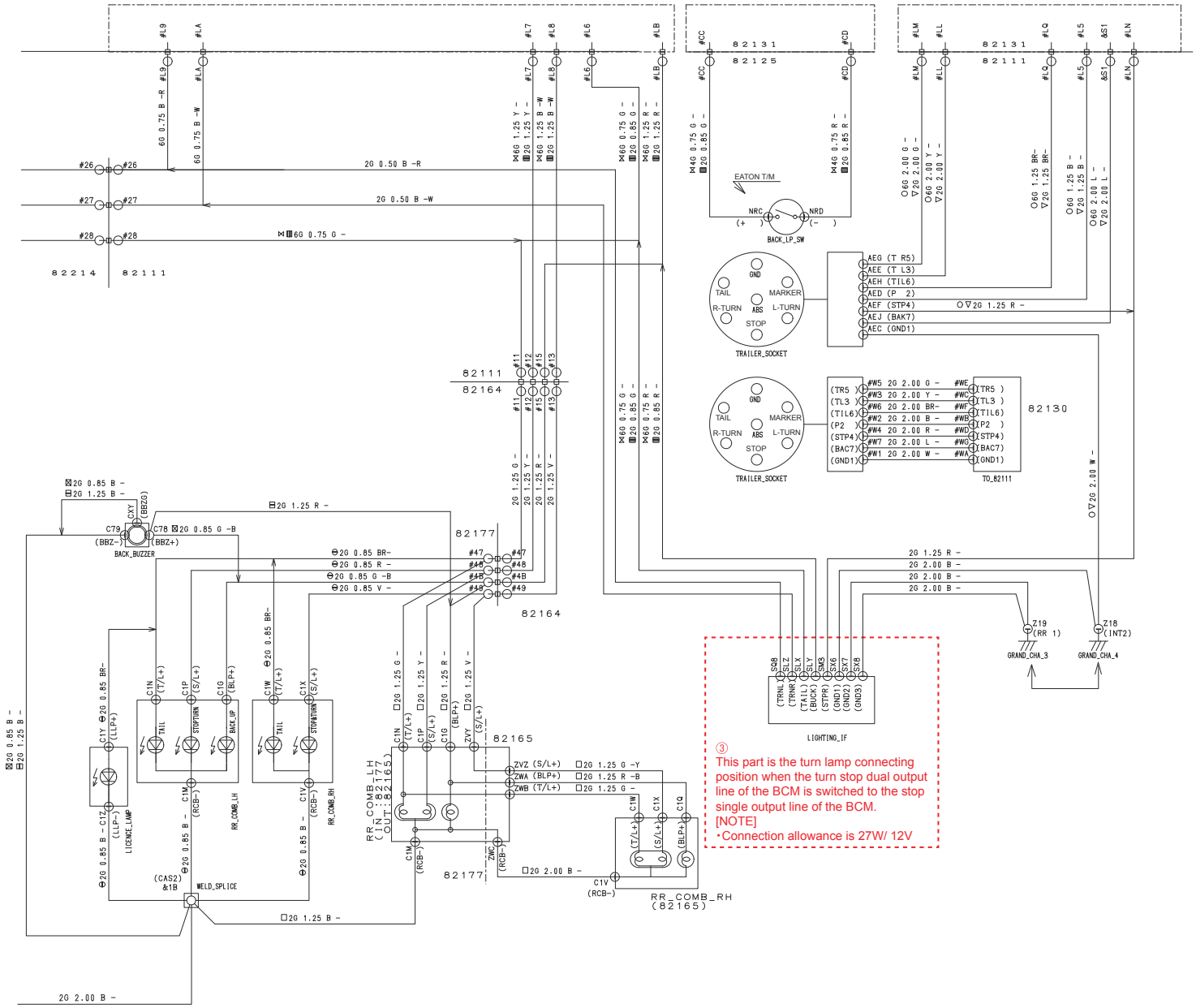
- When usage electric current value of each terminal of right and left is 27W/12V or less, connect to the turn signal switch circuit of spare chassis connector. ••••• ③
  See “Connector Mark G”, in Chapter 7 for details connector.
  (In this case, it can be connected directly to the circuit.)

[NOTE]

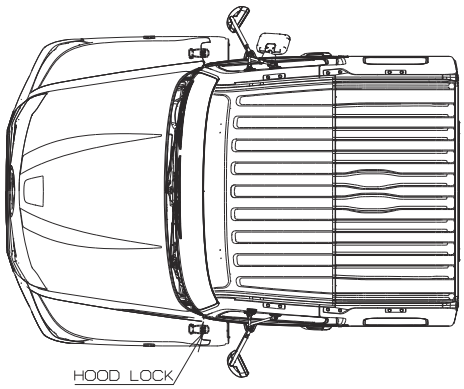
- Turn the starter switch to “LOCK” position, wait at least 10 minutes, and disconnect the negative terminal of battery before start work.
- Confirm that the stop lamp and the turn lamp work properly after work.
- Need to start the engine after the work when change the BCM control.

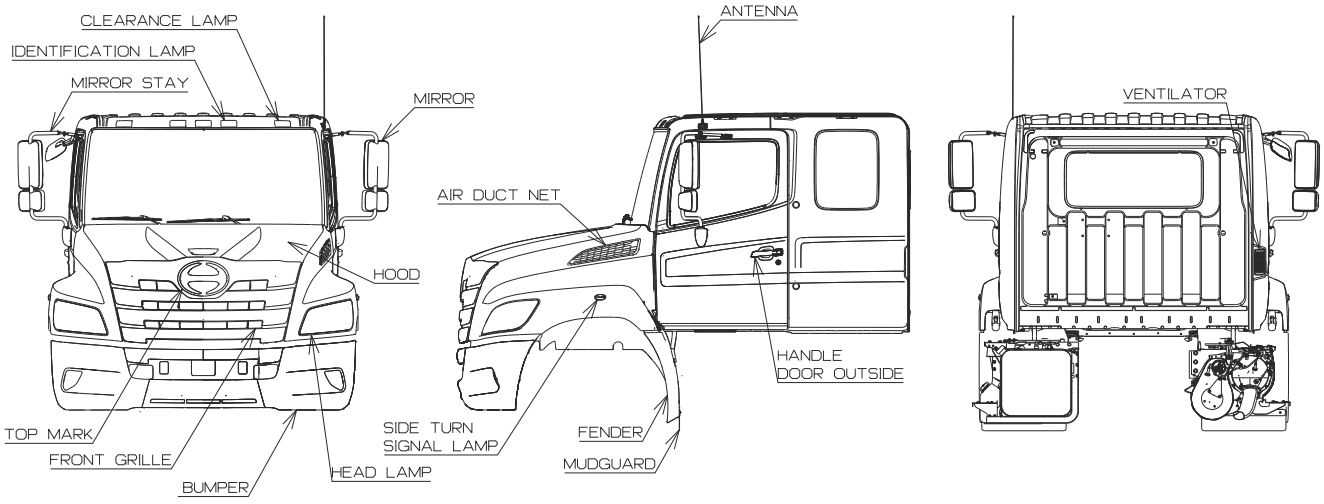
<Summary Circuit>

BODY CONTROL CIRCUIT_CHASSIS



< Extended Cab >





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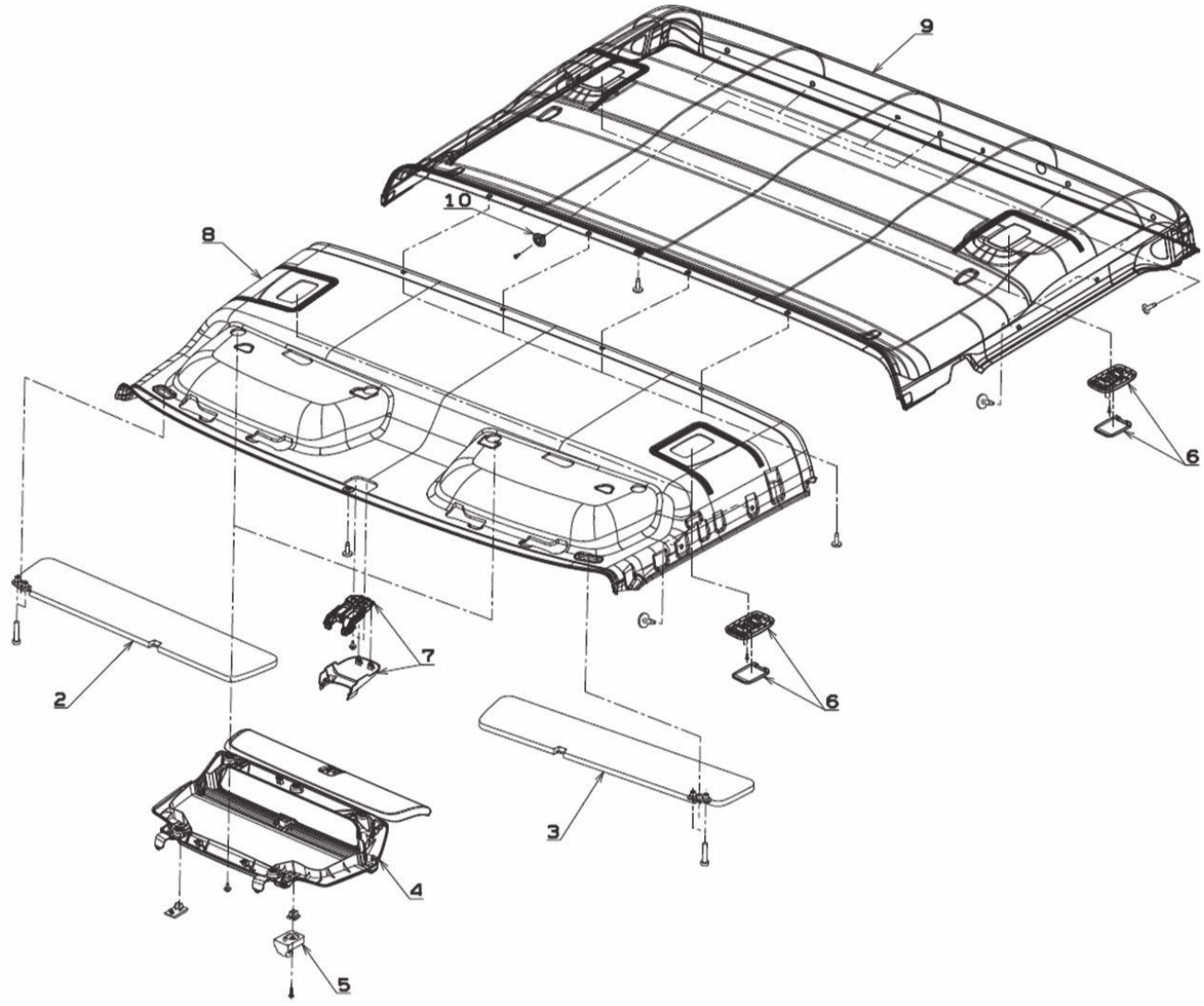

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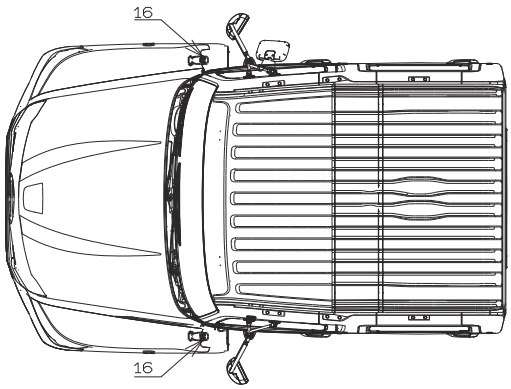
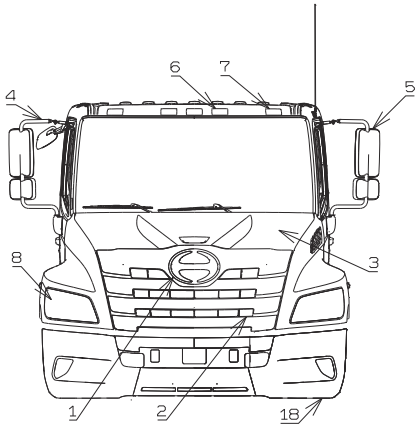
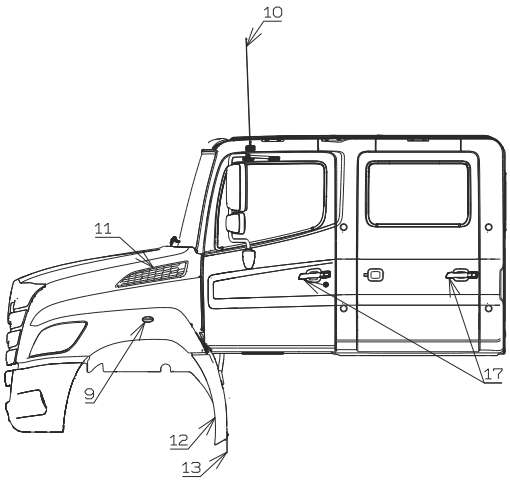






Windshield wiper

When dismounting and remounting the wiper, confirm before the remounting, that the wiper stays at the park position.
(After turning ON the wiper motor switch to motor, turn OFF the wiper switch and the motor stops at the park position.)

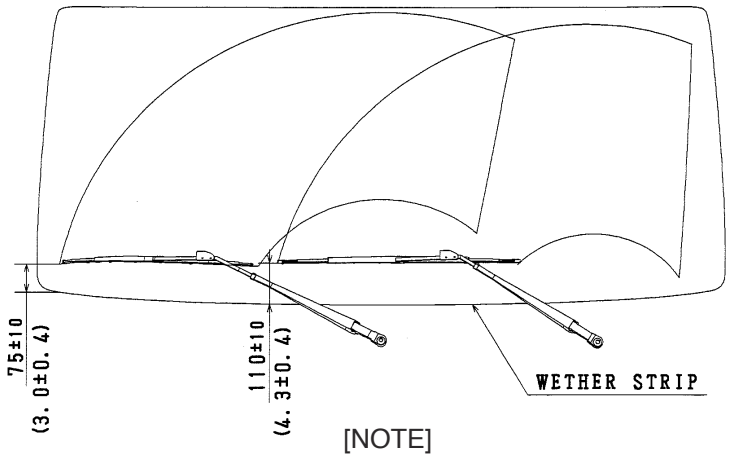
[NOTE]
- Operate the wiper with the hood shut down.
- With the hood opened, you may risk to have your hand pinched by the wiper links.
- Also after stop of the wiper motor, remove the key from the ignition.

When tightening the wiper arms, tighten them by adjusting the blade position (height) with in the limit as shown as the following figure.

Adjust the wiper arms and the pivot positions to the following tightening torque values.
- Wiper arm tightening torque
  19.6±2.0 N·m(14.46±1.48lb·ft)
- Wiper pivot tightening torque
  14±2.5 N·m(10.32±1.84lb·ft)

WIPER BLADE SET POSITION

Unit: mm (in.)



[NOTE]
The set positions show the gaps at the top end of the blades.

Chapter 9

CHASSIS DRAWINGS

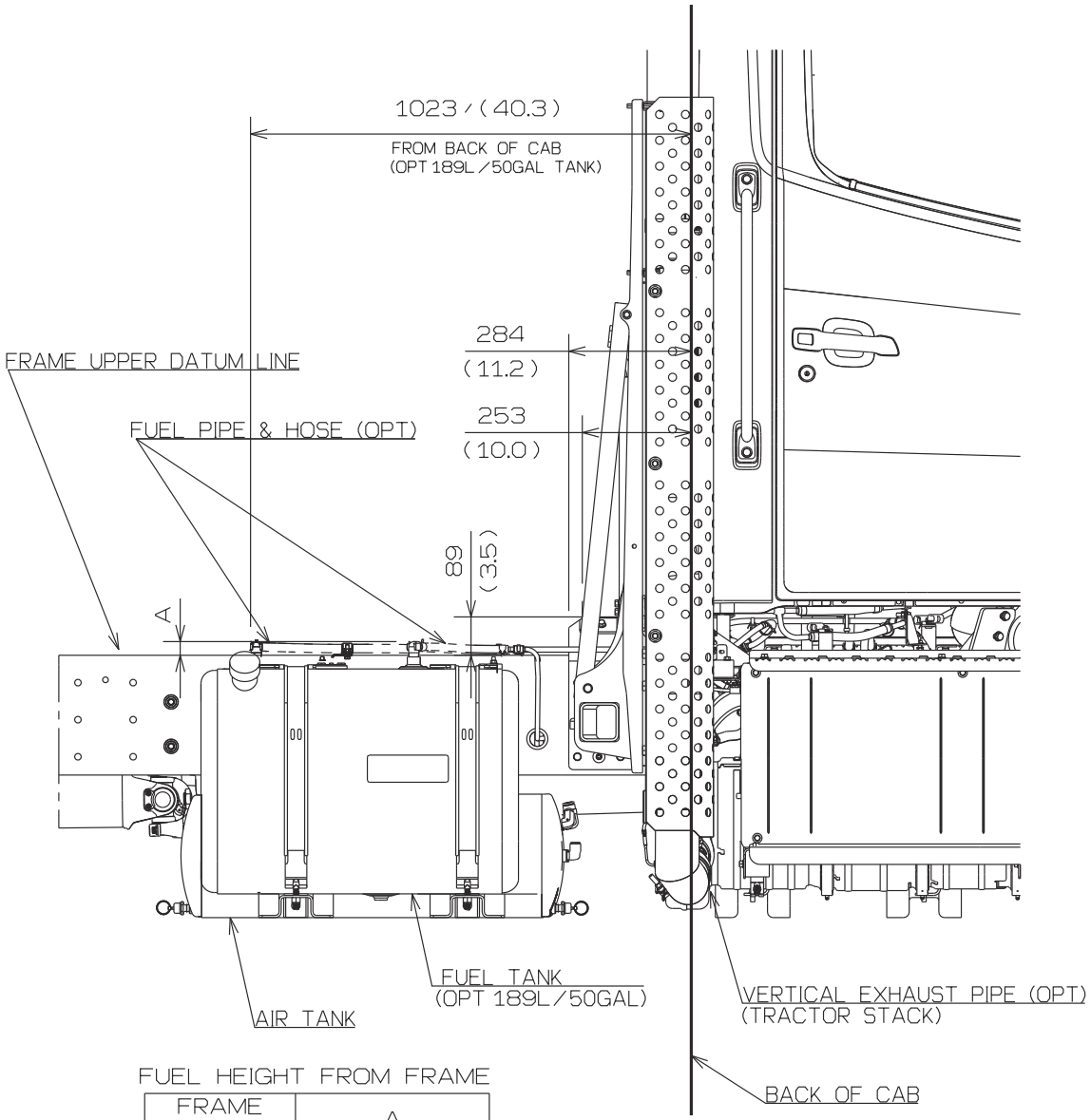
ABOUT CAD-DATA

CONTENTS ; CHASSIS DRAWING

Please contact HMS (USA).

• RIGHT SIDE VIEW
(VERTICAL STACK TAIL - TRACTOR)
< Day Cab ONLY >

Unit : mm (in.)



FUEL HEIGHT FROM FRAME

FRAME SECTION	A
B	52 (2.0)
C	32 (1.3)
D	29 (1.1)
E	25 (1.0)

• MODEL : NHC2 < Day Cab >
REAR LEAF SUSPENSION

DIMENSION OF HEIGHT FROM GROUND

Unit : mm (in.)

FR AXLE	TIRE	WHEEL	WHEELBASE		GROUND HEIGHT FRAME UPPER SURFACE				H CAB	H Vert Stack	ROH
					HfO	Hf	Hr	HrO			
16000lbs	315/80R22.5	22.5X9.00	G	3861 (152)	918 (36.1)	926 (36.5)	957 (37.7)	985 (38.8)	2783 (109.6)	3742 (147.3)	2007 (79)
			J	4445 (175)	919 (36.2)	926 (36.5)	957 (37.7)	982 (38.7)	2782 (109.5)	3740 (147.2)	2007 (79)
			K	4597 (181)	920 (36.2)	926 (36.5)	957 (37.7)	981 (38.6)	2782 (109.5)	3740 (147.2)	2007 (79)
			L	4750 (187)	920 (36.2)	926 (36.5)	957 (37.7)	981 (38.6)	2781 (109.5)	3739 (147.2)	2007 (79)
			L option	4978 (196)	920 (36.2)	926 (36.5)	957 (37.7)	980 (38.6)	2781 (109.5)	3739 (147.2)	2007 (79)
			M	5207 (205)	921 (36.3)	926 (36.5)	957 (37.7)	979 (38.5)	2780 (109.4)	3738 (147.2)	2464 (97)
			N	5385 (212)	946 (37.2)	951 (37.4)	982 (38.7)	979 (38.5)	2782 (109.5)	3740 (147.2)	2464 (97)
			P	5512 (217)	946 (37.2)	951 (37.4)	982 (38.7)	979 (38.5)	2782 (109.5)	3740 (147.2)	2464 (97)
			R	5969 (235)	946 (37.2)	951 (37.4)	982 (38.7)	1005 (39.6)	2781 (109.5)	3739 (147.2)	2464 (97)
			T	6426 (253)	947 (37.3)	951 (37.4)	982 (38.7)	1002 (39.4)	2781 (109.5)	3738 (147.2)	2464 (97)

[NOTE]
- FRAME HEIGHTS ARE BASED ON SMALLEST FRAME SECTION AVAILABLE FOR A GIVEN WHEELBASE AND GAWR.
- HEIGHTS BASED ON 11R22.5 REAR TIRES UNLESS SHOWN OTHERWISE.
- ADDITIONAL DIMENSIONS CAN BE PROVIDED WITH REQUEST TO SALES REP.

• MODEL : NHC2 < Crew Cab >
REAR LEAF SUSPENSION

DIMENSION OF HEIGHT FROM GROUND

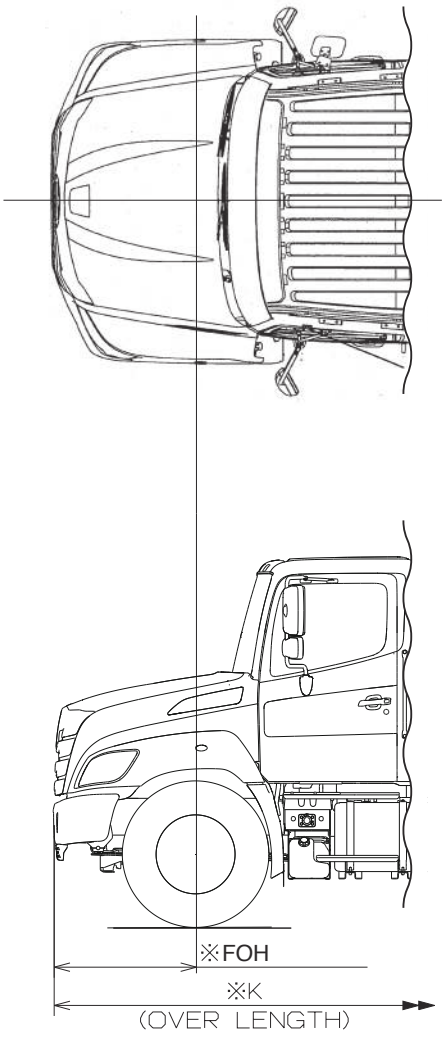
Unit : mm (in.)

FR AXLE	TIRE	WHEEL	WHEELBASE		GROUND HEIGHT FRAME UPPER SURFACE				H CAB	H Vert Stack	ROH
					HfO	Hf	Hr	HrO			
12000LBS	11R22.5	22.5X8.25	L option	4978 (196)	919 (36.2)	930 (36.6)	981 (38.6)	980 (38.6)	2765 (108.9)	3724 (146.6)	2007 (79)
			T	6426 (253)	921 (36.3)	930 (36.6)	983 (38.7)	975 (38.4)	2761 (108.7)	3719 (146.4)	2464 (97)
	FR 295/75R22.5 RR 295/75R22.5	22.5X8.25	L option	4978 (196)	904 (35.6)	916 (36)	973 (38.3)	974 (38.3)	2751 (108.3)	3710 (146.1)	2007 (79)
			T	6426 (253)	908 (35.7)	916 (36)	958 (37.7)	969 (38.1)	2748 (108.2)	3706 (145.9)	2464 (97)
14600lbs	11R22.5	22.5X8.25	L option	4978 (196)	908 (35.7)	922 (36.3)	988 (38.9)	992 (39.1)	2760 (108.7)	3719 (146.4)	2007 (79)
			T	6426 (253)	911 (35.9)	922 (36.3)	990 (39.)	1011 (39.8)	2757 (108.5)	3716 (146.3)	2464 (97)
	FR 295/75R22.5 RR 295/75R22.5	22.5X8.25	L option	4978 (196)	897 (35.3)	910 (35.8)	973 (38.3)	977 (38)	2747 (108.1)	3706 (145.9)	2007 (79)
			T	6426 (253)	899 (35.4)	910 (35.8)	975 (38.4)	996 (39.2)	2745 (108.1)	3703 (145.8)	2464 (97)
	12R22.5	22.5X9.00	L option	4978 (196)	932 (36.7)	942 (37)	988 (38.9)	984 (38.7)	2774 (109.2)	3732 (146.9)	2007 (79)
			T	6426 (253)	934 (36.8)	942 (37)	990 (39.)	1004 (39.5)	2772 (109.1)	3731 (146.9)	2464 (97)
	315/80R22.5	22.5X9.00	L option	4978 (196)	940 (37.)	948 (37.3)	988 (38.9)	981 (38.6)	2778 (109.4)	3737 (147.1)	2007 (79)
			T	6426 (253)	941 (37.)	948 (37.3)	990 (39.)	1002 (39.4)	2777 (109.3)	3735 (147)	2464 (97)
16000lbs	315/80R22.5	22.5X9.00	L option	4978 (196)	943 (37.1)	951 (37.4)	988 (38.9)	980 (38.6)	2781 (109.5)	3739 (147.2)	2007 (79)
			T	6426 (253)	945 (37.2)	951 (37.4)	990 (39.)	1002 (39.4)	2781 (109.5)	3738 (147.2)	2464 (97)

[NOTE]
- FRAME HEIGHTS ARE BASED ON SMALLEST FRAME SECTION AVAILABLE FOR A GIVEN WHEELBASE AND GAWR.
- HEIGHTS BASED ON 11R22.5 REAR TIRES UNLESS SHOWN OTHERWISE.
- ADDITIONAL DIMENSIONS CAN BE PROVIDED WITH REQUEST TO SALES REP.

• MODEL : NHC2 < Day Cab >
REAR AIR SUSPENSION

OPTION BUMPER



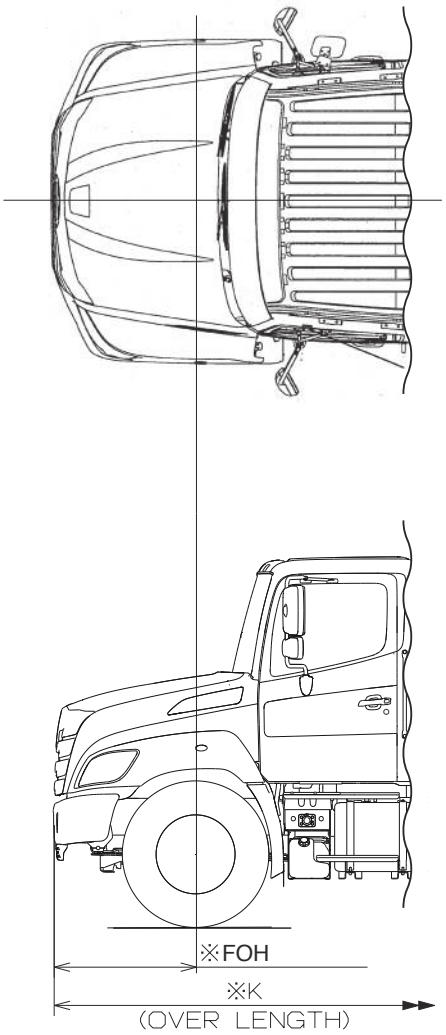
DIMENSION OF CHASSIS Unit : mm (in.)

Wheelbase		FOH	K
G	3861 (152)	1181 (46.5)	7048 (277.5) 7505 (295.5)
G tractor	3861 (152)	1181 (46.5)	5931 (233.5)
H tractor	4191 (165)	1181 (46.5)	6261 (246.5)
J	4445 (175)	1181 (46.5)	7632 (300.5) 8090 (318.5)
K	4597 (181)	1181 (46.5)	7785 (306.5) 8242 (324.5)
L	4750 (187)	1181 (46.5)	7937 (312.5) 8394 (330.5)
L option	4978 (196)	1181 (46.5)	8166 (321.5) 9623 (378.9)
M	5207 (205)	1181 (46.5)	8394 (330.5) 8852 (348.5)
N	5385 (212)	1181 (46.5)	8572 (337.5) 9029 (355.5)
P	5512 (217)	1181 (46.5)	8699 (342.5) 9156 (360.5)
R	5969 (235)	1181 (46.5)	9156 (360.5) 9614 (378.5)
T	6426 (253)	1181 (46.5)	9614 (378.5) 10071 (396.5)
V	6883 (271)	1181 (46.5)	10071 (396.5) 10528 (414.5)
W	7112 (280)	1181 (46.5)	10299 (405.5) 10757 (423.5)
X	7341 (289)	1181 (46.5)	10528 (414.5) 10985 (432.5)
Y	7569 (298)	1181 (46.5)	10757 (423.5) 11214 (441.5)
Y option	7722 (304)	1181 (46.5)	10909 (429.5) 11366 (447.5)

NOTE:1.FIGURES MARKED "※" ARE DIMENSIONS MEASURED IN PARALLEL WITH THE SURFACE OF THE GROUND.
2.DIMENSIONS IN ( ) ARE INCHES.

• MODEL : NHC2 < Crew Cab >
REAR AIR SUSPENSION

OPTION BUMPER



DIMENSION OF CHASSIS Unit : mm (in.)

Wheelbase		FOH	K
L option	4978 (196)	1181 (46.5)	8166 (321.5) 9623 (378.9)
T	6426 (253)	1181 (46.5)	9614 (378.5) 10071 (396.5)

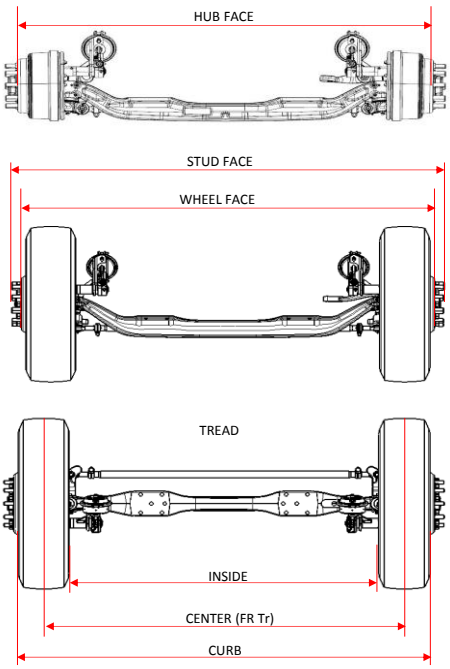
NOTE:1.FIGURES MARKED "※" ARE DIMENSIONS MEASURED IN PARALLEL WITH THE SURFACE OF THE GROUND.
2.DIMENSIONS IN ( ) ARE INCHES.

• MODEL : NMC2 < Day Cab >
REAR RUBBER SUSPENSION

Unit : mm (in.)

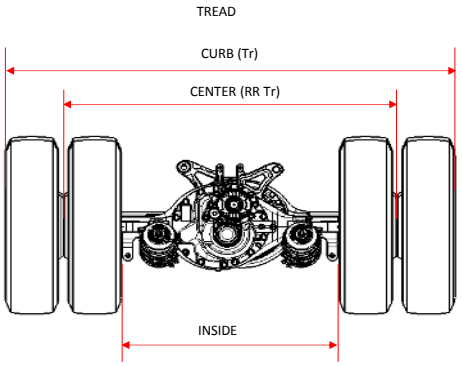
DIMENSION OF WIDTH : FRONT

MODEL	FR AXLE	TIRE	WHEEL	DISC	BRAKES	FR Tr	FR CURB	FR WHL	FR STUD
NMC2 / TMC2	14600LBS	11R22.5	22.5X8.25	ALUM	DRUM / DISC	2103 (82.8)	2382 (93.8)	2439 (96)	2532 (99.7)
				STEEL		2081 (81.9)	2360 (92.9)	2416 (95.1)	
		295/75R22.5		ALUM		2103 (82.8)	2394 (94.3)	2439 (96)	
				STEEL		2081 (81.9)	2372 (93.4)	2416 (95.1)	
		12R22.5	22.5X9.00	ALUM		2088 (82.2)	2388 (94)	2444 (96.2)	
				STEEL		2070 (81.5)	2370 (93.3)	2426 (95.5)	
		315/80R22.5		ALUM		2088 (82.2)	2400 (94.5)	2444 (96.2)	
				STEEL		2070 (81.5)	2382 (93.8)	2426 (95.5)	
	16000LBS	315/80R22.5	22.5X9.00	STEEL	DRUM	2070 (81.5)	2382 (93.8)	2362 (93)	2472 (97.3)
					DISC	2084 (82)	2396 (94.3)	2377 (93.6)	2481 (97.7)



DIMENSION OF WIDTH : REAR

MODEL	RR AXLE	TIRE	WHEEL	DISC	BRAKES	RR Tr	Tr
NMC2	40000LBS / 46000LBS	11R22.5	22.5X8.25	ALUM	DRUM	1865 (73.4)	2480 (97.6)
				STEEL		1843 (72.6)	2457 (96.7)
		295/75R22.5		ALUM		1865 (73.4)	2491 (98.1)
				STEEL		1843 (72.6)	2469 (97.2)
		12R22.5	22.5X9.00	ALUM		1871 (73.7)	2526 (99.4)
				STEEL		1853 (73)	2508 (98.7)
		315/80R22.5		ALUM		1871 (73.7)	2538 (99.9)
				STEEL		1853 (73)	2520 (99.2)
		455/55R22.5	22.5X14.00	STEEL		1853 (73)	2305 (90.7)
		11R22.5	22.5X8.25	ALUM	DISC	1864 (73.4)	2478 (97.6)
				STEEL		1841 (72.5)	2456 (96.7)
		295/75R22.5		ALUM		1864 (73.4)	2489 (98)
				STEEL		1841 (72.5)	2467 (97.1)
		12R22.5	22.5X9.00	ALUM		1869 (73.6)	2525 (99.4)
				STEEL		1851 (72.9)	2507 (98.7)
		315/80R22.5		ALUM		1869 (73.6)	2537 (99.9)
				STEEL		1851 (72.9)	2519 (99.2)
		455/55R22.5	22.5X14.00	STEEL		1851 (72.9)	2303 (90.7)
TMC2	40000LBS / 46000LBS	11R22.5	22.5X8.25	ALUM	DISC	1864 (73.4)	2478 (97.6)
				STEEL		1841 (72.5)	2456 (96.7)
		295/75R22.5		ALUM		1864 (73.4)	2489 (98.)
				STEEL		1841 (72.5)	2467 (97.1)
		12R22.5	22.5X9.00	ALUM		1869 (73.6)	2525 (99.4)
				STEEL		1851 (72.9)	2507 (98.7)
		455/55R22.5	22.5X14.00	STEEL		1851 (72.9)	2303 (90.7)



NOTE: Additional dimensions can be provided with request to Sales Rep.

• MODEL : NMC2 < Crew Cab >
REAR RUBBER 40K SUSPENSION

DIMENSION OF HEIGHT FROM GROUND

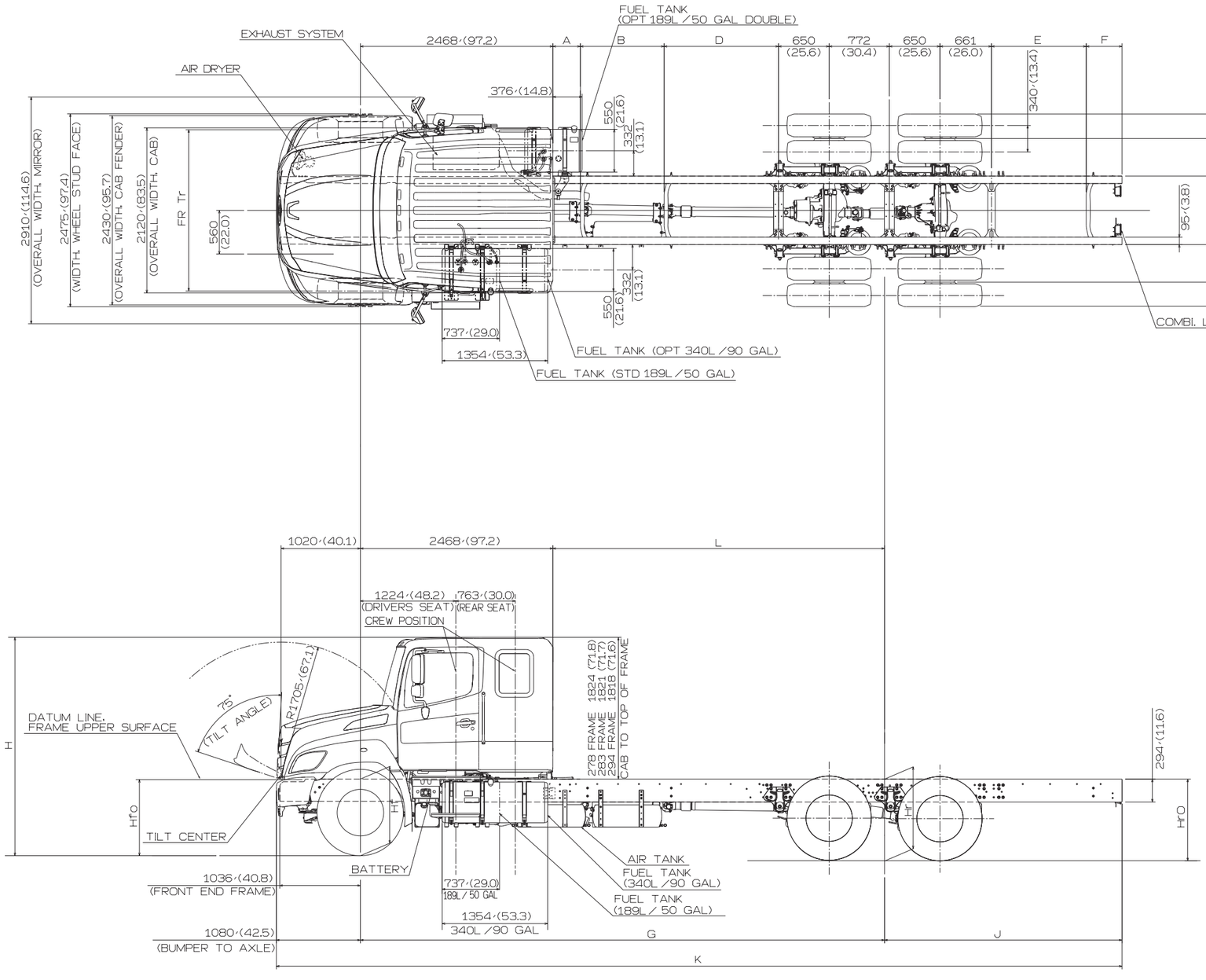
Unit : mm (in.)

FR AXLE	TIRE	WHEEL	WHEELBASE		GROUND HEIGHT FRAME UPPER SURFACE				H CAB	H Vert Stack	ROH
					HfO	Hf	Hr	HrO			
14600lbs	11R22.5	22.5X8.25	R	5918 (233)	901 (35.5)	920 (36.2)	1029 (40.5)	1071 (42.2)	2766 (108.9)	3726 (146.7)	2464 (97)
	FR 295/75R22.5 RR 295/75R22.5	22.5X8.25	R	5918 (233)	889 (35.)	908 (35.7)	1014 (39.9)	1055 (41.5)	2753 (108.4)	3713 (146.2)	2464 (97)
	12R22.5	22.5X9.00	R	5918 (233)	926 (36.5)	940 (37.)	1029 (40.5)	1063 (41.9)	2781 (109.5)	3740 (147.2)	2464 (97)
	FR 315/80R22.5 RR 295/75R22.5	FR 22.5X9.00 RR 22.5x8.25	R	5918 (233)	934 (36.8)	946 (37.2)	1014 (39.9)	1039 (40.9)	2781 (109.5)	3740 (147.2)	2464 (97)
16000lbs	315/80R22.5	22.5X9.00	R	5918 (233)	937 (36.9)	951 (37.4)	1031 (40.6)	1064 (41.9)	2790 (109.8)	3749 (147.6)	2464 (97)

[NOTE]
- FRAME HEIGHTS ARE BASED ON SMALLEST FRAME SECTION AVAILABLE FOR A GIVEN WHEELBASE AND GAWR.
- HEIGHTS BASED ON 11R22.5 REAR TIRES UNLESS SHOWN OTHERWISE.
- ADDITIONAL DIMENSIONS CAN BE PROVIDED WITH REQUEST TO SALES REP.

MODEL : NMC2 < Extended Cab >
REAR AIR SUSPENSION

Unit : mm (in.)

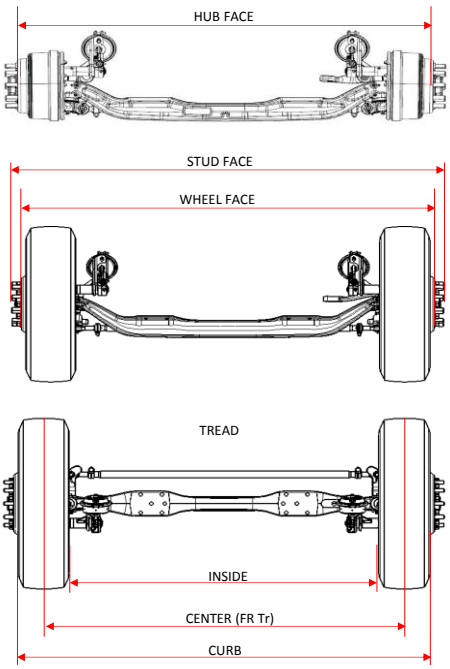


• MODEL : NMC2 < Crew Cab >
REAR AIR SUSPENSION

Unit : mm (in.)

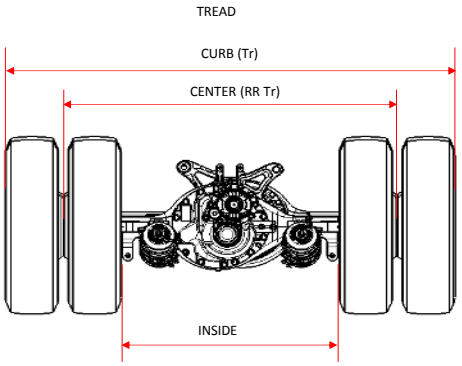
DIMENSION OF WIDTH : FRONT

MODEL	FR AXLE	TIRE	WHEEL	DISC	BRAKES	FR Tr	FR CURB	FR WHL	FR STUD
NMC2 / TMC2	14600LBS	11R22.5	22.5X8.25	ALUM	DRUM / DISC	2103 (82.8)	2382 (93.8)	2439 (96)	2532 (99.7)
				STEEL		2081 (81.9)	2360 (92.9)	2416 (95.1)	
		295/75R22.5		ALUM		2103 (82.8)	2394 (94.3)	2439 (96)	
				STEEL		2081 (81.9)	2372 (93.4)	2416 (95.1)	
		12R22.5	22.5X9.00	ALUM		2088 (82.2)	2388 (94)	2444 (96.2)	
				STEEL		2070 (81.5)	2370 (93.3)	2426 (95.5)	
		315/80R22.5		ALUM		2088 (82.2)	2400 (94.5)	2444 (96.2)	
				STEEL		2070 (81.5)	2382 (93.8)	2426 (95.5)	
	16000LBS	315/80R22.5	22.5X9.00	STEEL	DRUM	2070 (81.5)	2382 (93.8)	2362 (93)	2472 (97.3)
					DISC	2084 (82)	2396 (94.3)	2377 (93.6)	2481 (97.7)



DIMENSION OF WIDTH : REAR

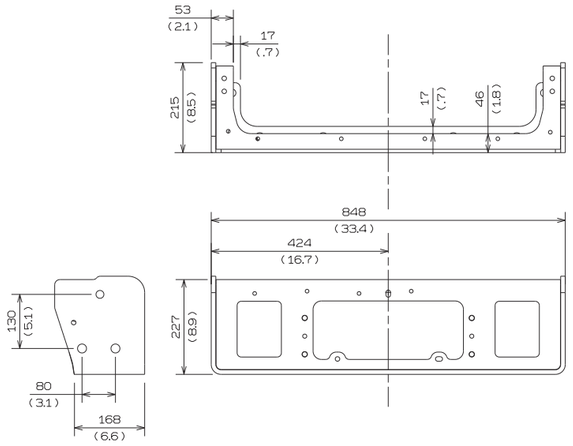
MODEL	RR AXLE	TIRE	WHEEL	DISC	BRAKES	RR Tr	Tr
NMC2	40000LBS / 46000LBS	11R22.5	22.5X8.25	ALUM	DRUM	1865 (73.4)	2480 (97.6)
				STEEL		1843 (72.6)	2457 (96.7)
		295/75R22.5		ALUM		1865 (73.4)	2491 (98.1)
				STEEL		1843 (72.6)	2469 (97.2)
		12R22.5	22.5X9.00	ALUM		1871 (73.7)	2526 (99.4)
				STEEL		1853 (73)	2508 (98.7)
		315/80R22.5		ALUM		1871 (73.7)	2538 (99.9)
				STEEL		1853 (73)	2520 (99.2)
		455/55R22.5	22.5X14.00	STEEL		1853 (73)	2305 (90.7)
		11R22.5	22.5X8.25	ALUM	DISC	1864 (73.4)	2478 (97.6)
				STEEL		1841 (72.5)	2456 (96.7)
		295/75R22.5		ALUM		1864 (73.4)	2489 (98)
				STEEL		1841 (72.5)	2467 (97.1)
		12R22.5	22.5X9.00	ALUM		1869 (73.6)	2525 (99.4)
				STEEL		1851 (72.9)	2507 (98.7)
		315/80R22.5		ALUM		1869 (73.6)	2537 (99.9)
				STEEL		1851 (72.9)	2519 (99.2)
		455/55R22.5	22.5X14.00	STEEL		1851 (72.9)	2303 (90.7)
TMC2	40000LBS / 46000LBS	11R22.5	22.5X8.25	ALUM	DISC	1864 (73.4)	2478 (97.6)
				STEEL		1841 (72.5)	2456 (96.7)
		295/75R22.5		ALUM		1864 (73.4)	2489 (98.)
				STEEL		1841 (72.5)	2467 (97.1)
		12R22.5	22.5X9.00	ALUM		1869 (73.6)	2525 (99.4)
				STEEL		1851 (72.9)	2507 (98.7)
		455/55R22.5	22.5X14.00	STEEL		1851 (72.9)	2303 (90.7)



NOTE: Additional dimensions can be provided with request to Sales Rep.

2) DETAIL OF CROSSMEMBER

Unit : mm (in.)



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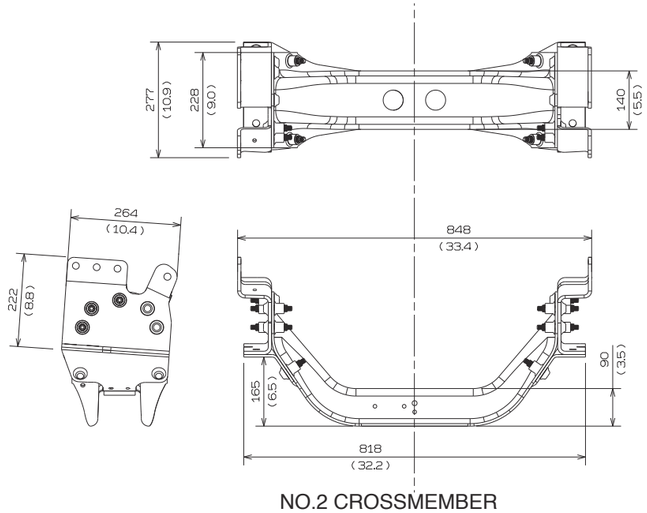

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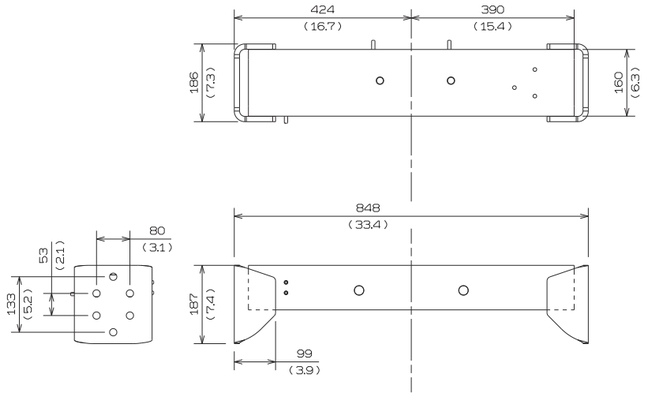

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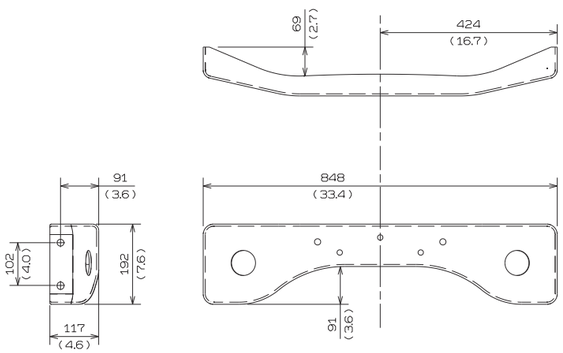
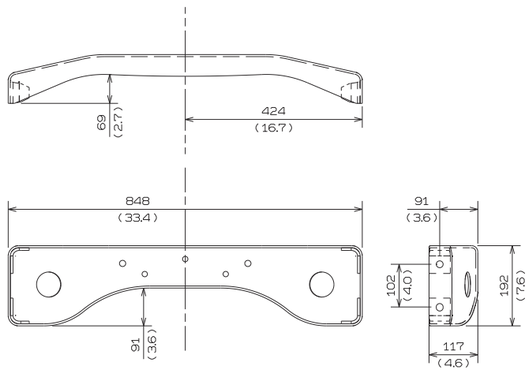
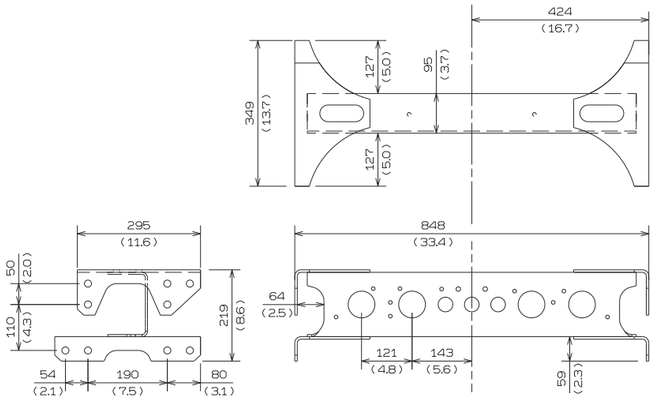


DOGBONE STYLE CROSSMEMBER
(NON-REINFORCED)



DOGBONE STYLE CROSSMEMBER
(REINFORCED)

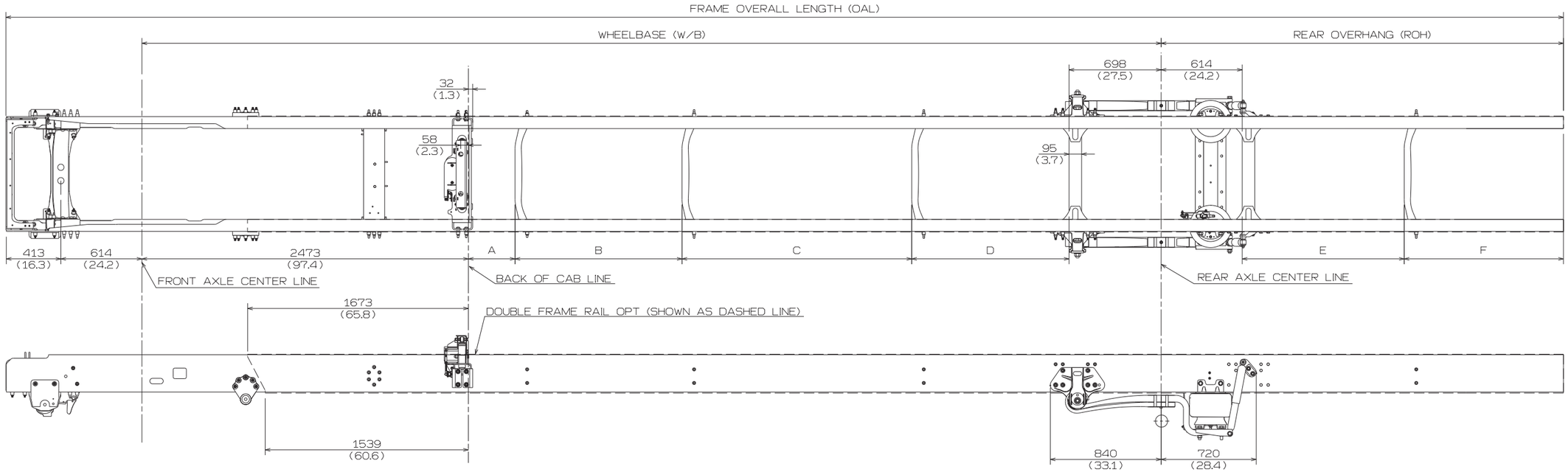


WELDED STYLE CROSSMEMBER

MODEL : NHC2 < Extended Cab >
REAR AIR SUSPENSION

Unit : mm (in.)

1) DETAIL OF CHASSIS FRAME



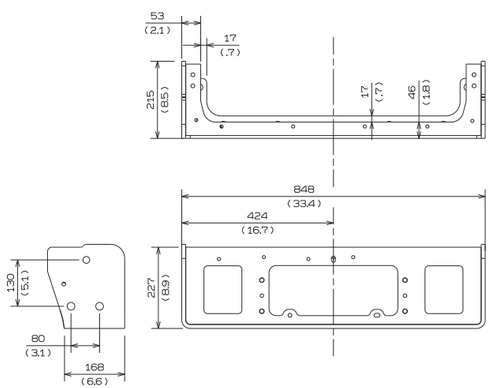
DIMENSION OF CHASSIS

Unit : mm (in.)

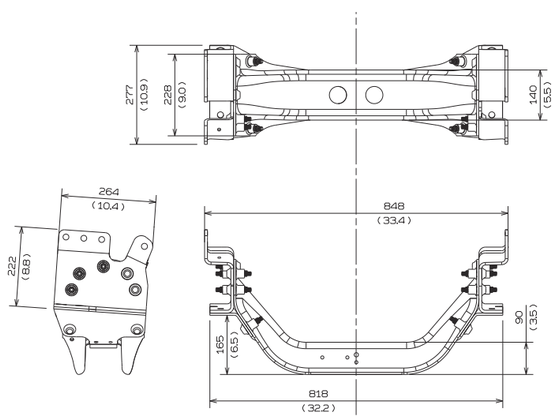
Wheelbase		A	B	C	D	E	ROH	OAL
K	4623 (182)	601 (23.7)	856 (33.7)		697 (27.4)	460 (18.1)	2464 (97)	8117 (320)
L	4928 (194)	566 (22)	1196 (47.1)		697 (27.4)	460 (18.1)	2464 (97)	8421 (332)
N	5436 (214)	966 (38)	1304 (51.3)		697 (27.4)	460 (18.1)	2464 (97)	8929 (352)
R	5918 (233)	711 (28)	840 (33.1)	1202 (47.3)	697 (27.4)	460 (18.1)	2464 (97)	9412 (371)
U	6629 (261)	1116 (43.9)	1075 (42.3)	1273 (50.1)	697 (27.4)	460 (18.1)	2464 (97)	10123 (399)
U option	6731 (265)	1116 (43.9)	1075 (42.3)	1374 (54.1)	697 (27.4)	460 (18.1)	2464 (97)	10225 (403)
V	6985 (275)	1116 (43.9)	1290 (50.8)	1413 (55.6)	697 (27.4)	460 (18.1)	2464 (97)	10479 (413)
W	7137 (281)	1116 (43.9)	1440 (56.7)	1416 (55.7)	697 (27.4)	460 (18.1)	2464 (97)	10631 (419)

2) DETAIL OF CROSSMEMBER

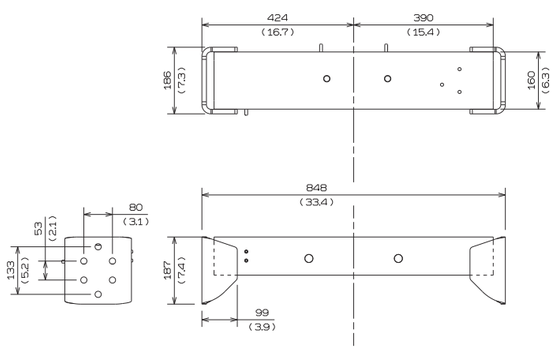
Unit : mm (in.)



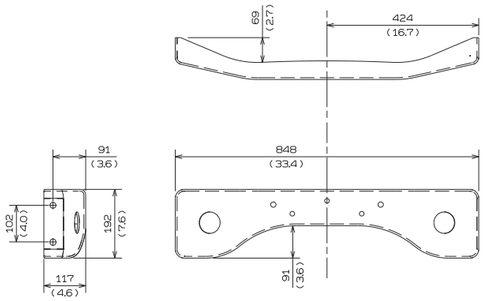
NO.1 CROSSMEMBER



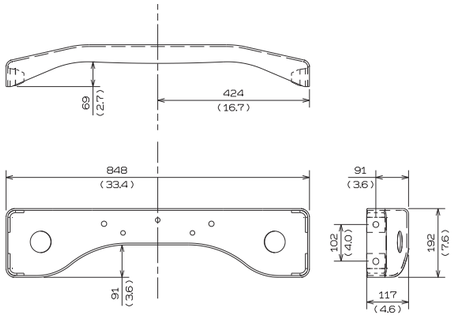
NO.2 CROSSMEMBER



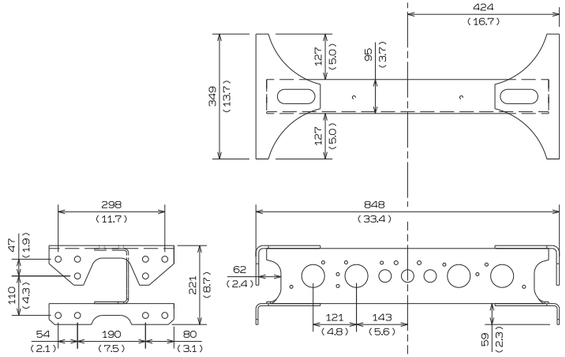
NO.3 CROSSMEMBER



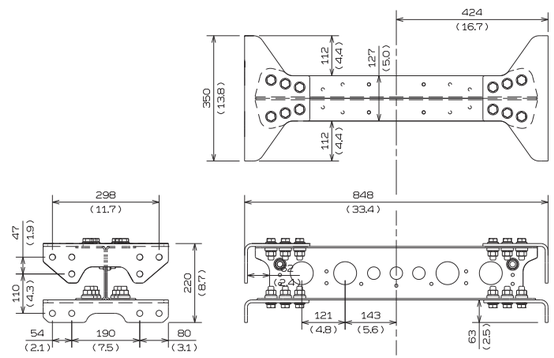
DOGBONE STYLE CROSSMEMBER
(NON-REINFORCED)



DOGBONE STYLE CROSSMEMBER
(REINFORCED)



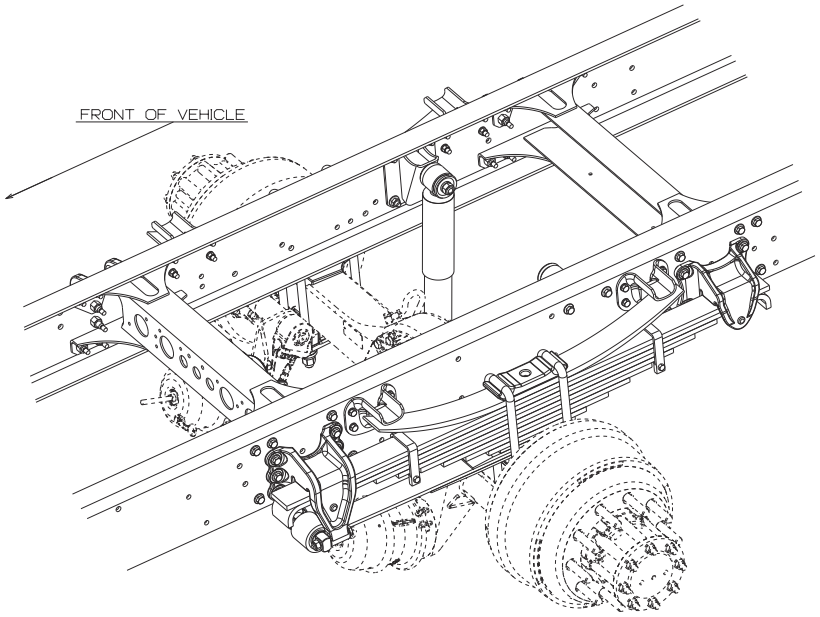
WELDED STYLE CROSSMEMBER



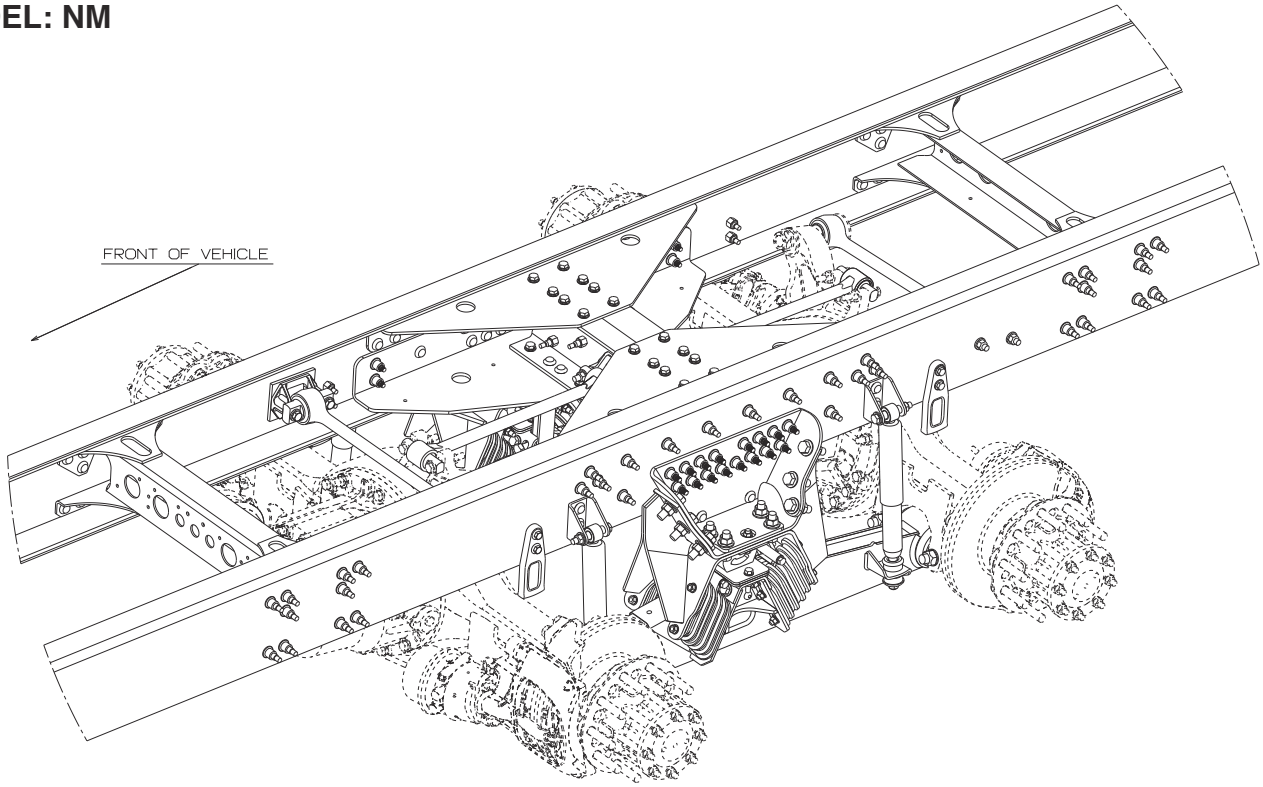
BOLTED STYLE CROSSMEMBER

5. REFERENCE FIGURE FOR SUSPENSION

STEEL SUSPENSION
MODEL: NH

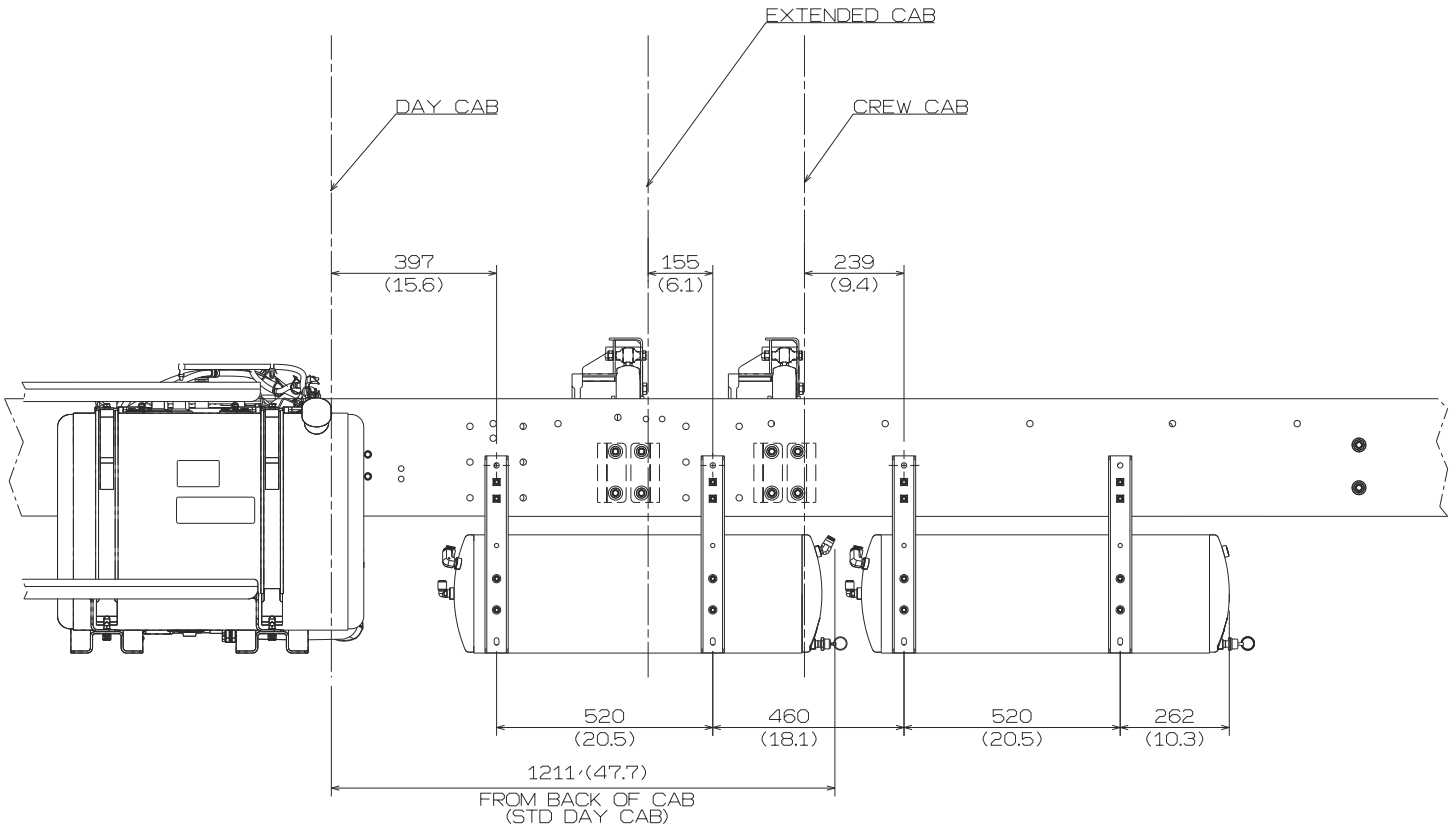


RUBBER SUSPENSION
MODEL: NM



< Extended Cab and Crew Cab >

Unit : mm (in.)



(ENGINE ACCELERATOR PROVIDED HINO GENUINE BY OPTION)

Engines which are mounted to the Hino truck models are controlled by a electric computer.
Make sure following procedure how to control of engine revolution (speed) hereinafter collectively referred engine revolution when provide power take off device (ex. Transmission P.T.O.)
in order to control mounted body or equipment.

The engine accelerator unit, related parts and extension wire are available from Hino authorized dealer.

Connect the connector of Engine accelerator unit with spare connector which is provided inside of right member near No.3 crossmember at chassis frame.
(Refer to chapter 7 “ELECTRICAL POWER SOURCES” for details of specifications and installed position.)

Detail of related parts

PART NAME	PART NUMBER
Link Assy., Accelerator	78100-E0040
Lever assy., control	78130-E0010
Harness sub assy., extend	S8207-11470

Range of control

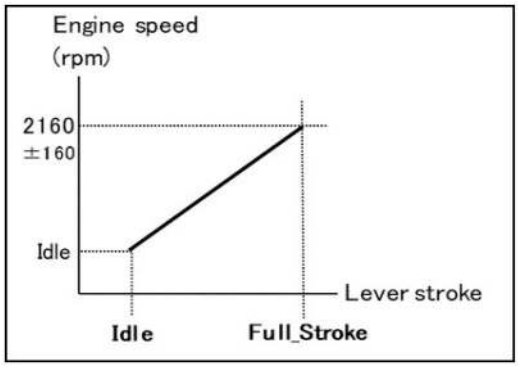
Refer to below chart. (Can be controlled variable revolution.)

Condition of operation

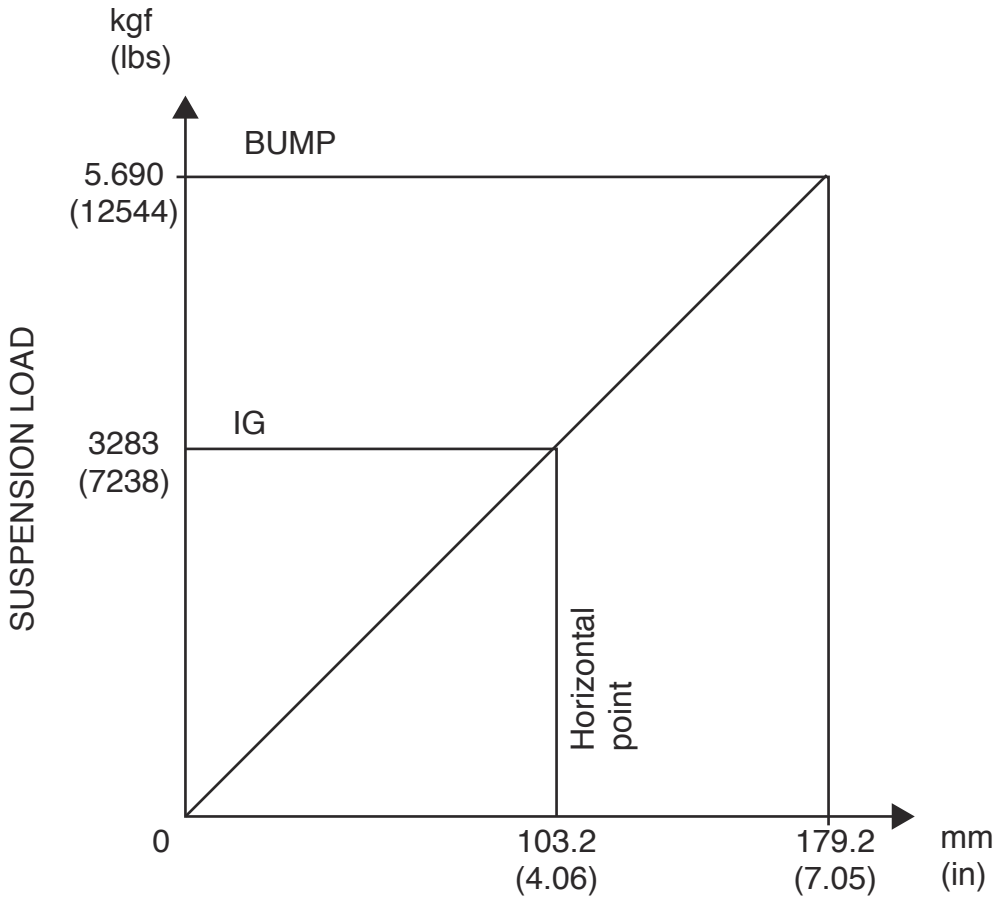
- Vehicle speed must be less than 20km/h (32mile/h).
- Transmission must be in neutral position.
- Engine speed must be reduced to idle.
- Engine accelerator unit must be idle position.
- P.T.O. engagement signal must be connected to Engine Control ECU.

Engine speed will be controlled when the above conditions are met.

If any condition noted in the listed above is not met, engine speed control will normal be operated by accelerator pedal.



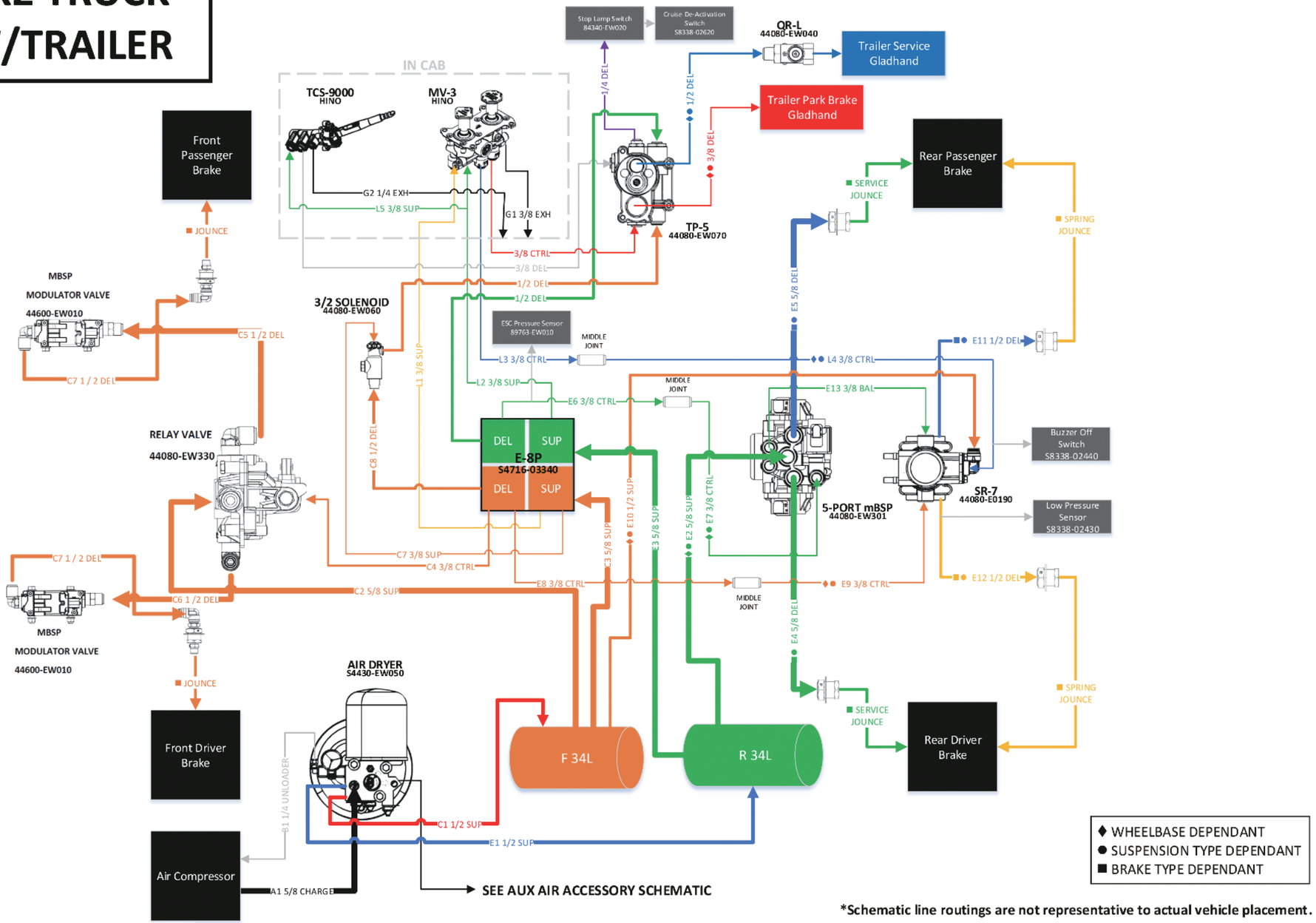
MODEL:NH, NM
CAPACITY:16000lbs(OPT)
K:31.8kgf/mm(1780lb/in)



VERTICAL SPRING DEFLECTION

4S/4M ABS/TCS/ESC

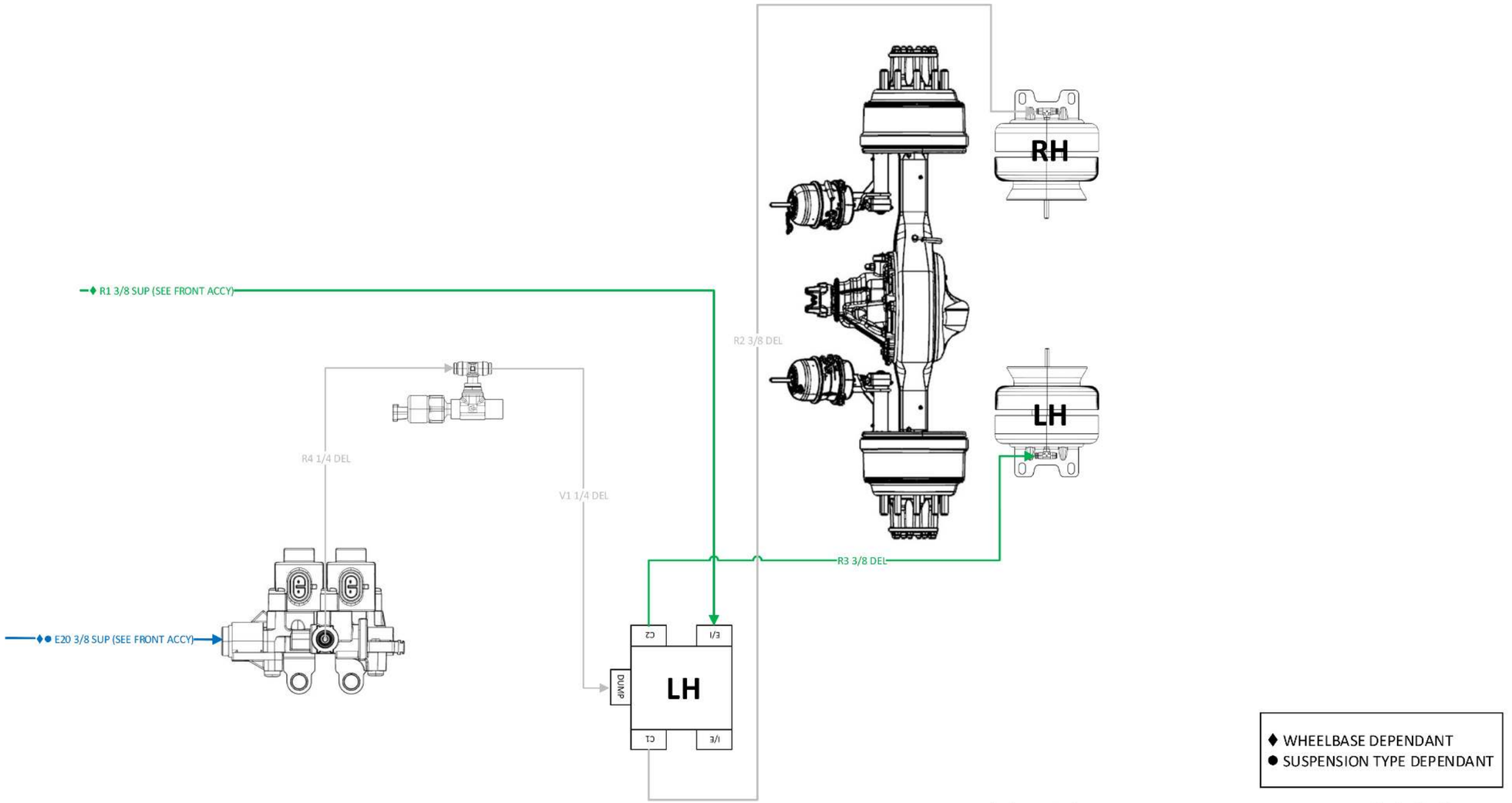
4X2 TRUCK W/TRAILER



*Schematic line routings are not representative to actual vehicle placement.

AIR SUSP (SINGLE LEVEL W/DUMP)

4X2 REAR ACCESSORIES

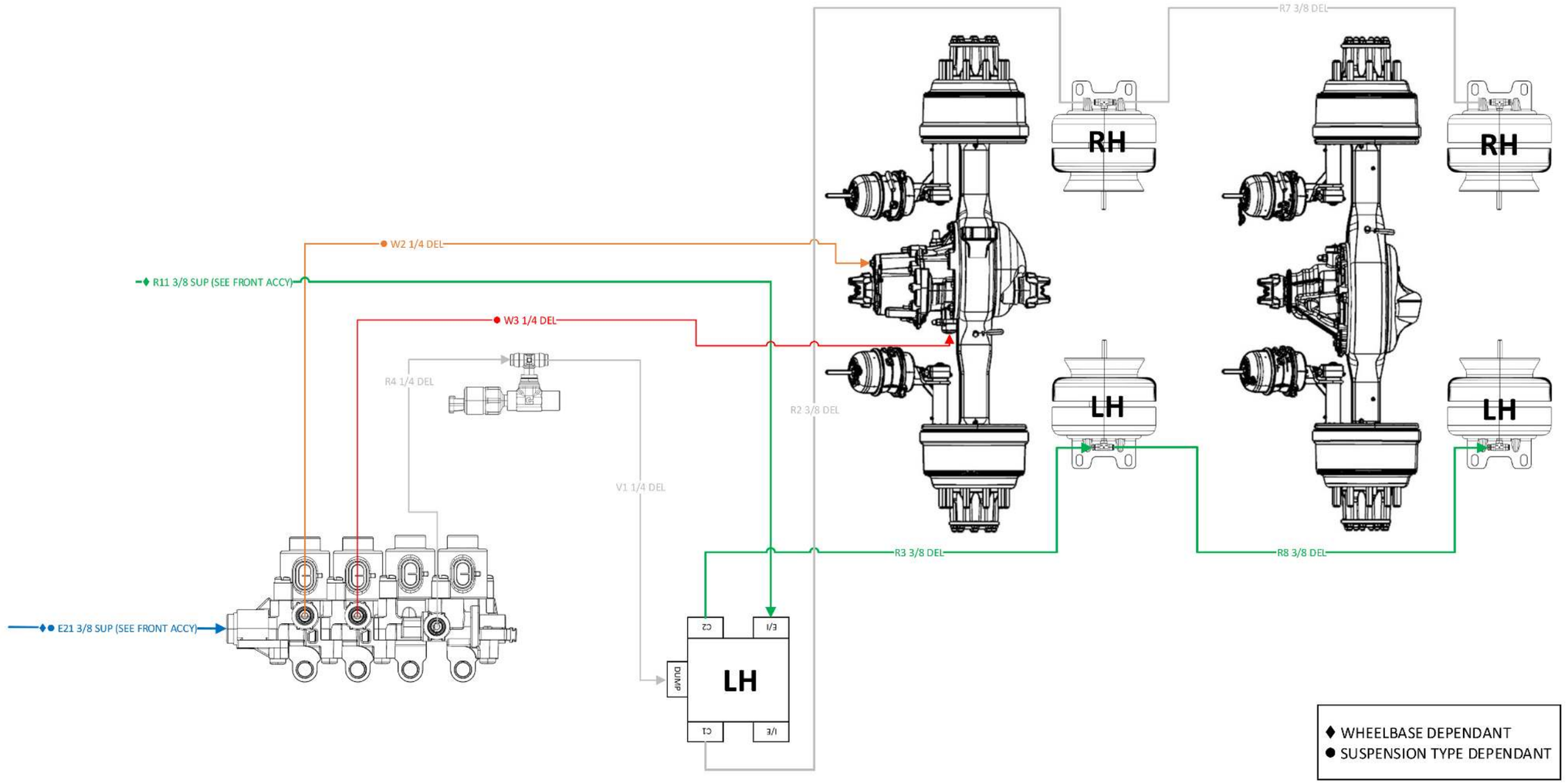


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

***Schematic line routings are not representative to actual vehicle placement.**

PWR DIV LOCKING DIFF 1 AIR SUSP (SINGLE LEVEL W/DUMP)

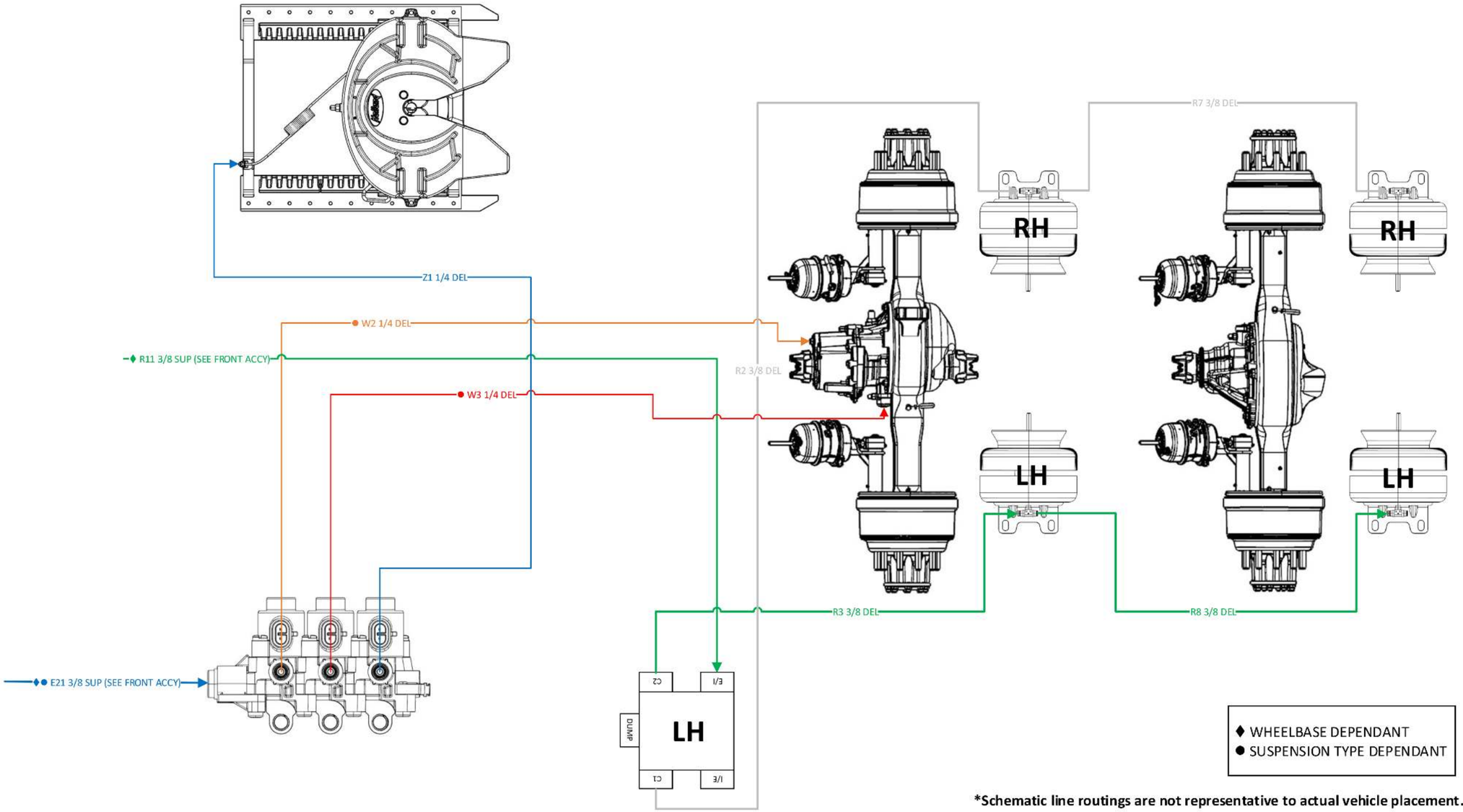
6X4 REAR ACCESSORIES



*Schematic line routings are not representative to actual vehicle placement.

PWR DIV LOCKING DIFF 1 COUPLER AIR SUSP (SINGLE LEVEL)

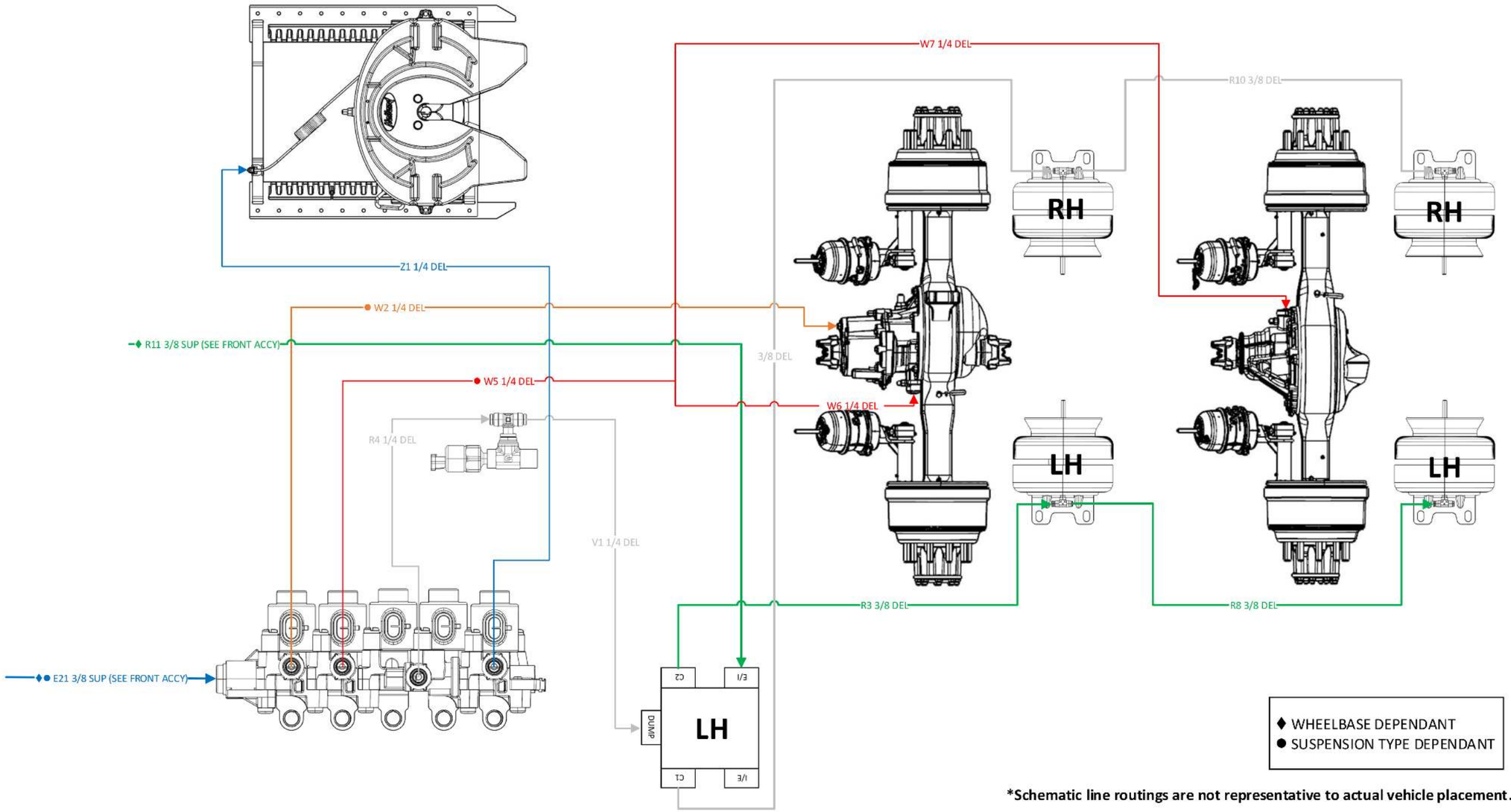
6X4 REAR ACCESSORIES



*Schematic line routings are not representative to actual vehicle placement.

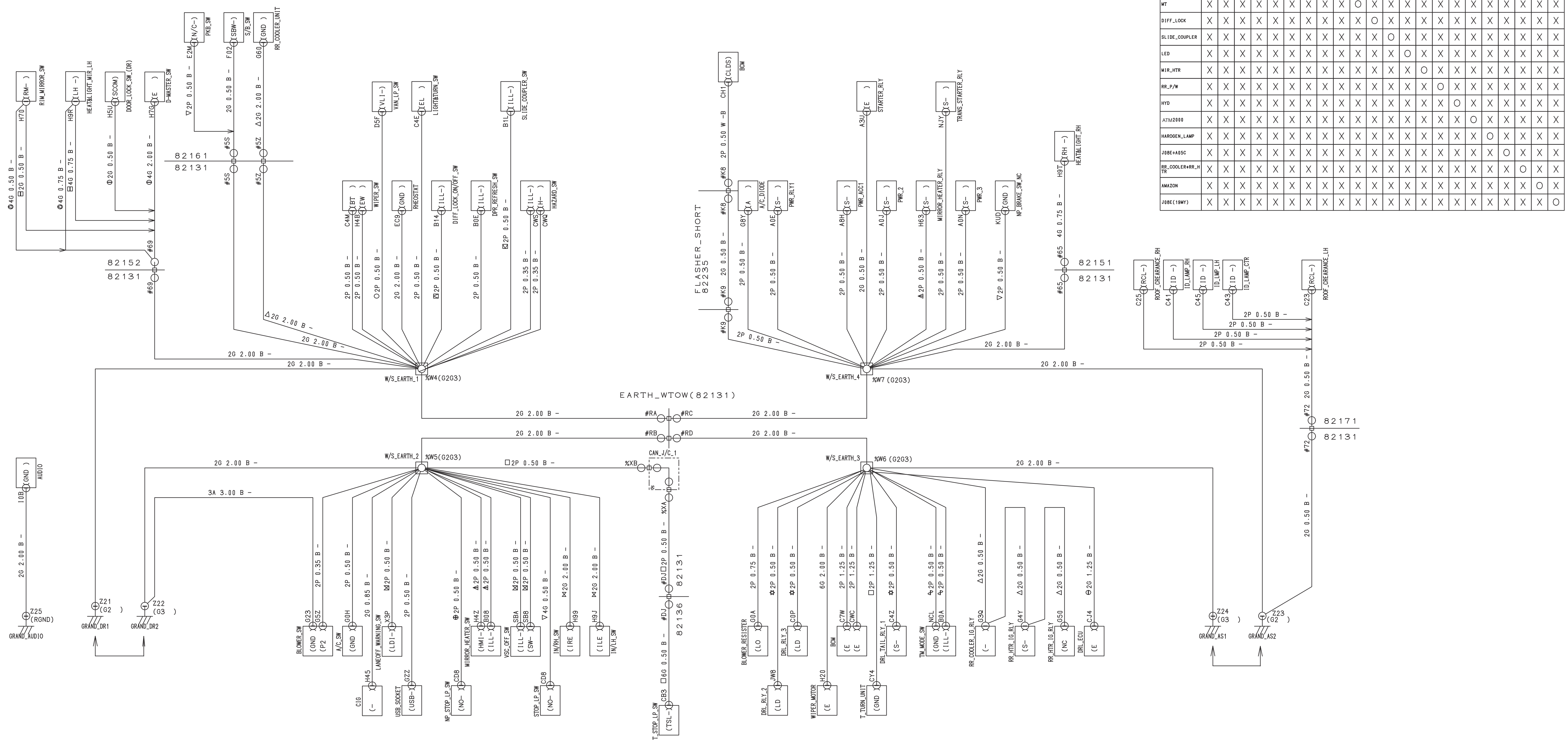
PWR DIV CROSS-LOCK COUPLER AIR SUSP (SINGLE LEVEL W/DUMP)

6X4 REAR ACCESSORIES



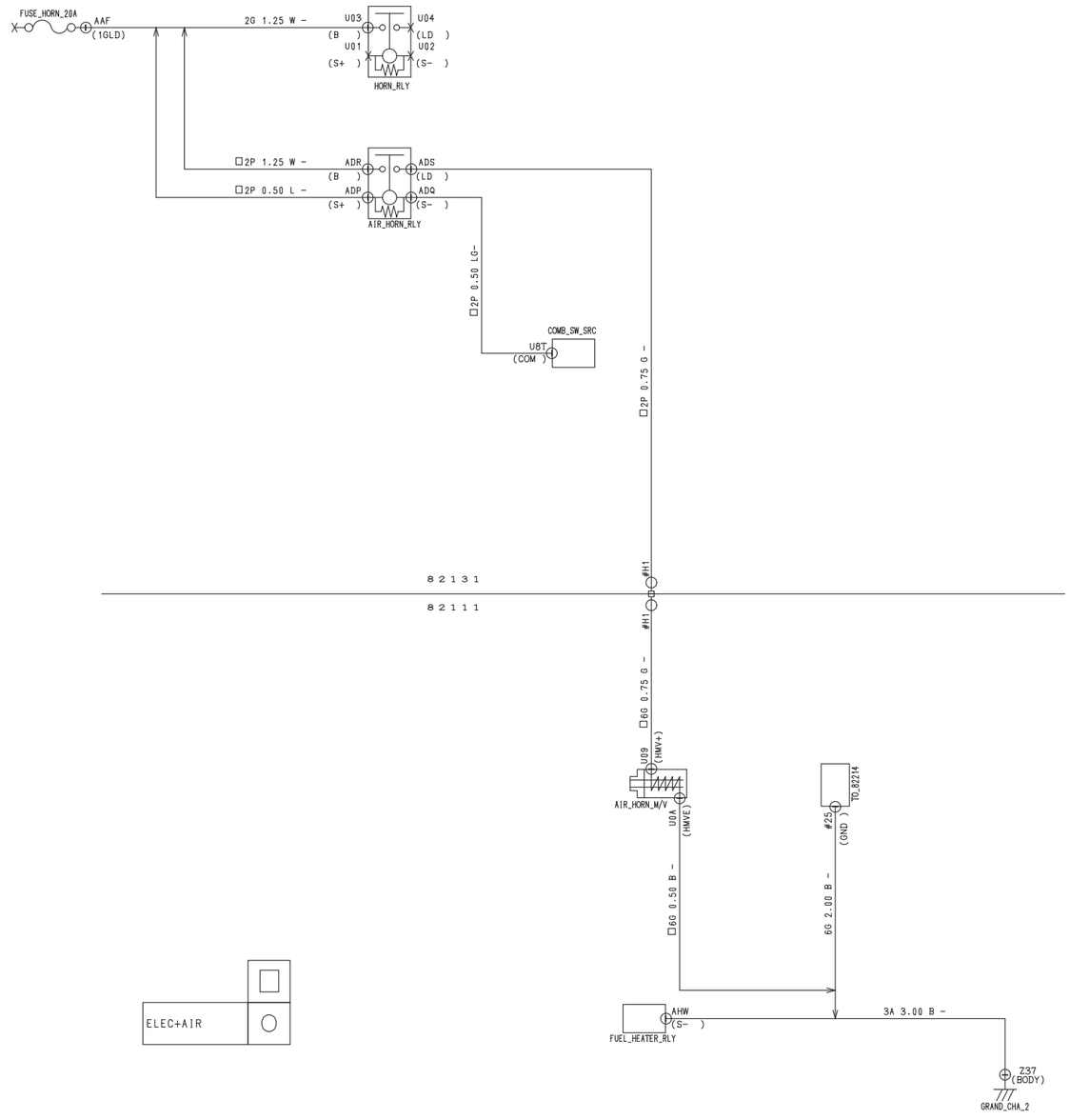
*Schematic line routings are not representative to actual vehicle placement.

8. GRAND CIRCUIT_2



	⊕	⦶	Λ	□	⊠	○	⧄	◬	⊟	▥	⍓	⧅	✡	⍋	⋈	▽	∿	⊖	⊞	△	⊗	▭
F/A*L/CFS	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P/W	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
(J08E+A05C)*AIR_SUS_21MY	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TRACTOR	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ABS+CMS	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAN_LP	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SPOT_LP	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LESS_P/W+MIR_HTR	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P/W+MIR_HTR	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X
MT	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X
DIFF_LOCK	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X
SLIDE_COUPLER	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X
LED	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X
MIR_HTR	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X
RR_P/W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X
HYD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X
ATM2000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X
HAROGEN_LAMP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X
J08E+A05C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X
RR_COOLER*RR_HTR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X
AMAZON	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X
J08E(19MY)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O

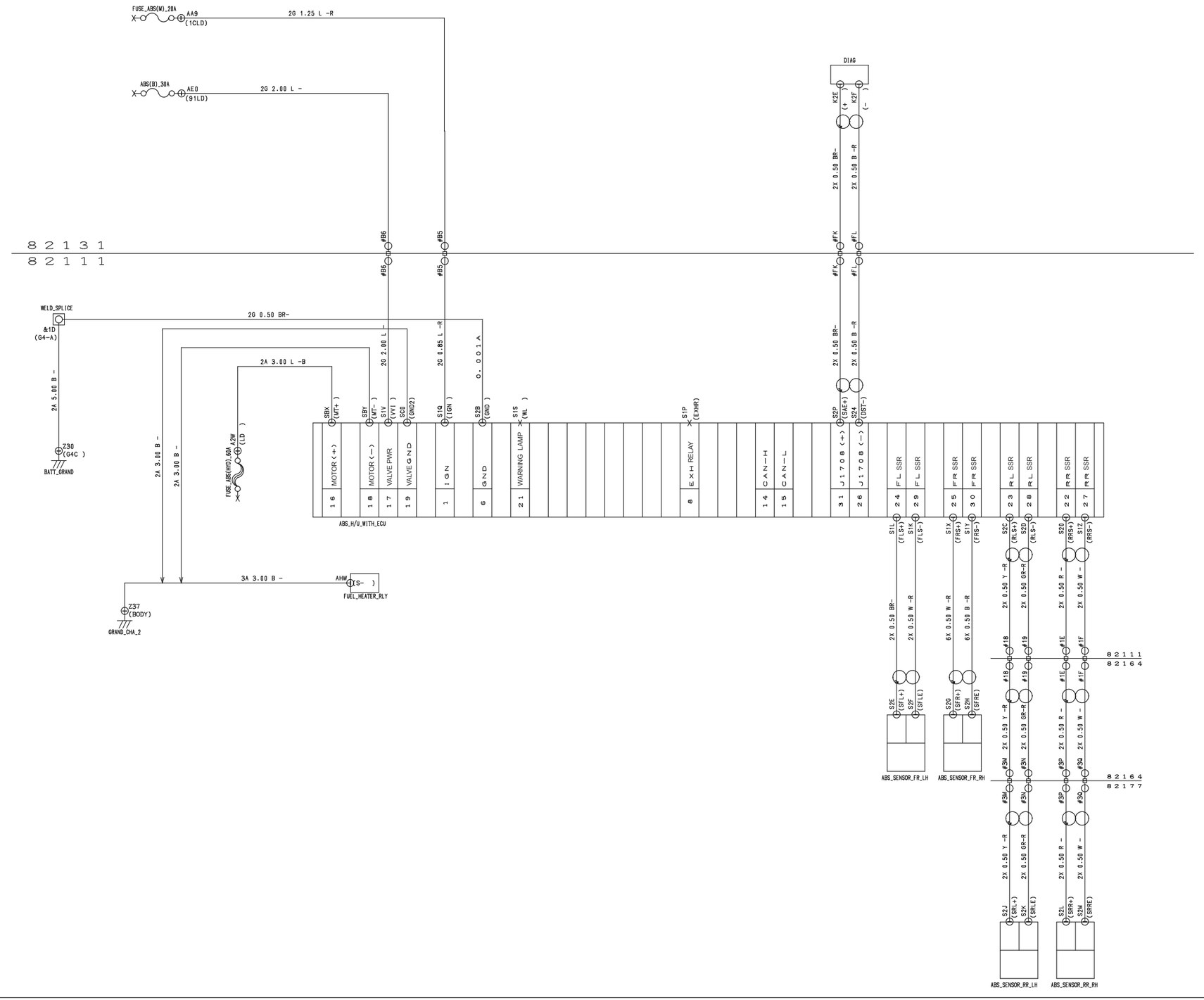
18. AIR HORN CIRCUIT



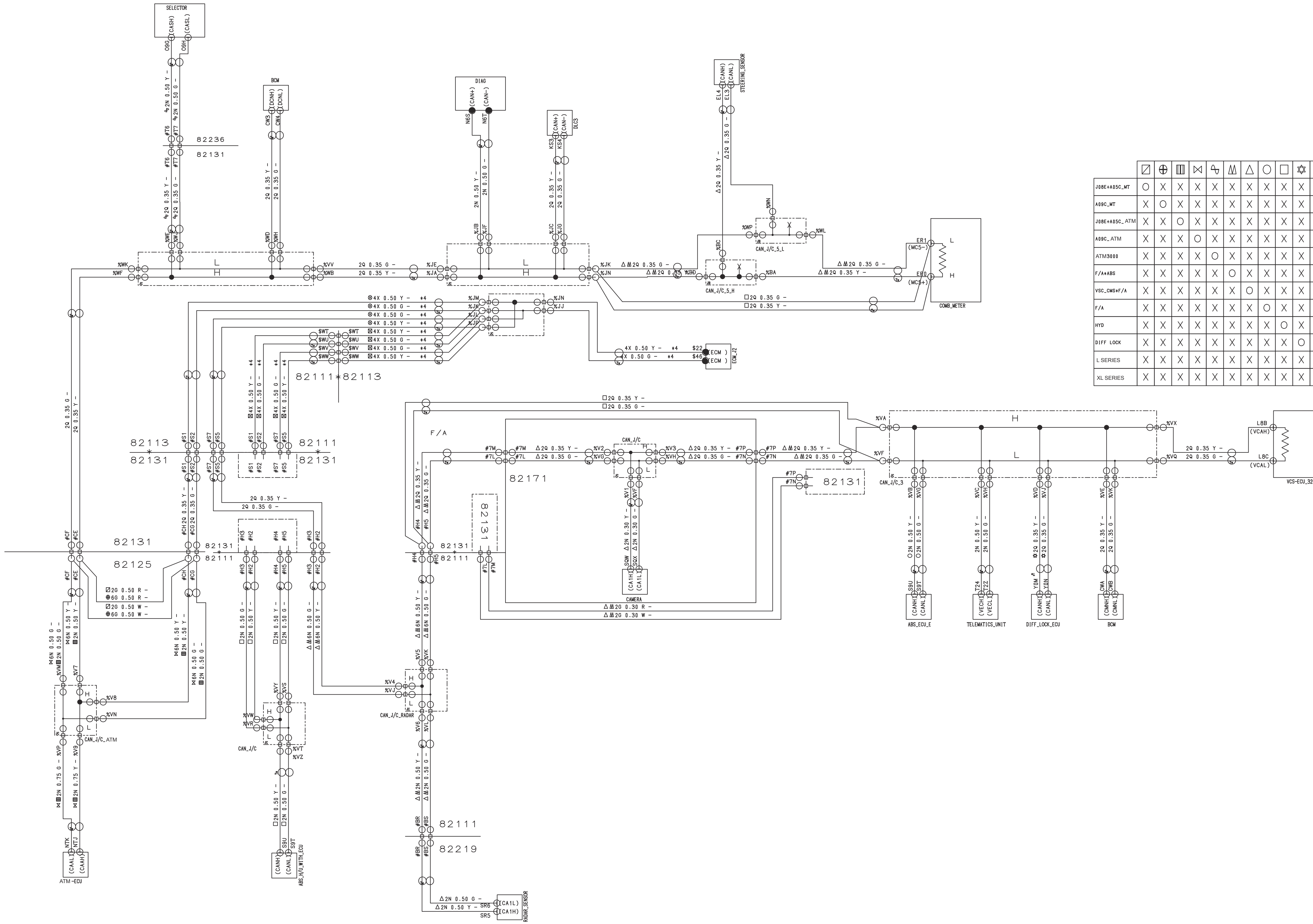
28. AFTERTRATMENT SYSTEM CIRCUIT

	○	△	⊗
L SERIES	○	X	X
XL SERIES	X	○	X
L SERIES (CV_W_FUEL &59L_UREA_TANK)	X	X	○

38. ABS CIRCUIT_3 (HYDRAULIC BRAKE Ver. E)



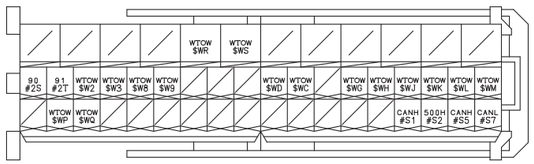
48. VEHICLE CAN CIRCUIT



	⧄	⊕	▥	⋈	∿	M	△	○	□	✡	⊗	⊠
J08E+A05C_MT	O	X	X	X	X	X	X	X	X	X	X	X
A09C_MT	X	O	X	X	X	X	X	X	X	X	X	X
J08E+A05C_ATM	X	X	O	X	X	X	X	X	X	X	X	X
A09C_ATM	X	X	X	O	X	X	X	X	X	X	X	X
ATM3000	X	X	X	X	O	X	X	X	X	X	X	X
F/A*ABS	X	X	X	X	X	O	X	X	X	X	X	X
VSC_CMS*F/A	X	X	X	X	X	X	O	X	X	X	X	X
F/A	X	X	X	X	X	X	X	O	X	X	X	X
HYD	X	X	X	X	X	X	X	X	O	X	X	X
DIFF LOCK	X	X	X	X	X	X	X	X	X	O	X	X
L SERIES	X	X	X	X	X	X	X	X	X	X	O	X
XL SERIES	X	X	X	X	X	X	X	X	X	X	X	O

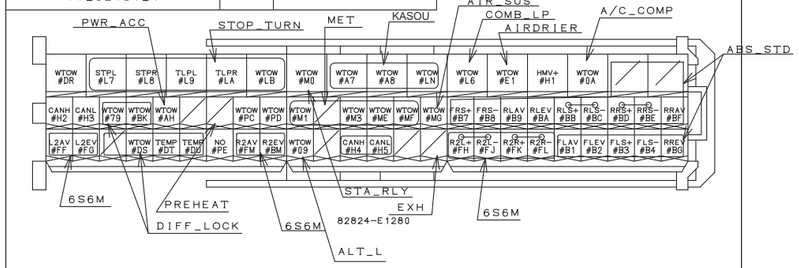
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
404	TO_82131_6			XL SERIES
405	TO_82131_1			
406	TO_82131_2	G		
407	TO_82131_3			XL SERIES

404



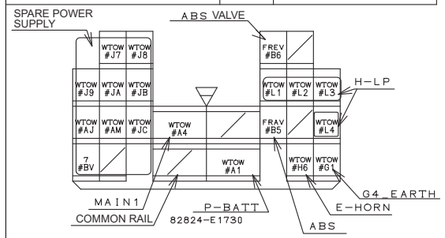
82824-E0W50

405



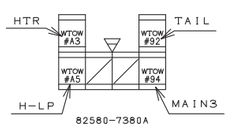
82824-E1280

406



82824-E1730

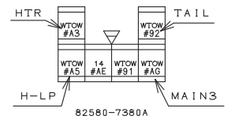
407



82580-7380A

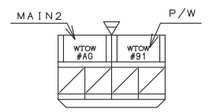
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
407	TO_82131_3			L SERIES
408	TO_82131_4			XL SERIES
408	TO_82131_4			L SERIES
409	TO_82131_5			OPT(CMS)

407



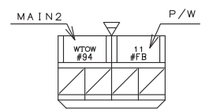
82580-7380A

408



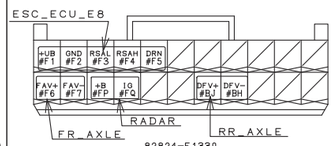
82824-E1180

408



82824-E1180

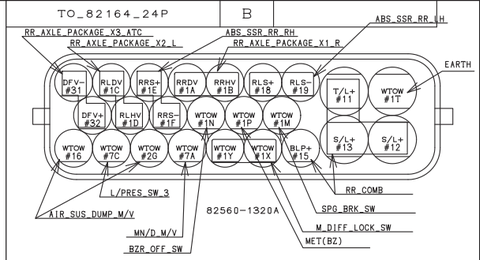
409



82824-E1330

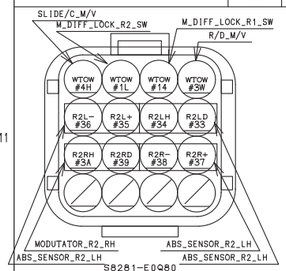
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
410	TO_82164_24P	B		
411	TO_82169_16P	B		

410

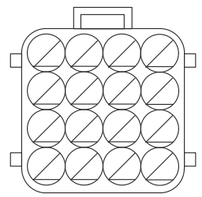


82560-1320A

411



S8281-E0Q80



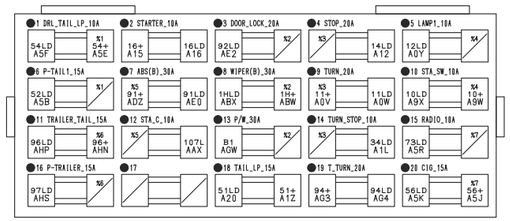
*S8281-E0Q90_CAP
(XL SERIES ONLY)

82122(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	STARTER1			
	12 — # B A3X			
	*82675-E0540			
2	BATTERY			L SERIES
	10 — # +(1) A48			
	82675-E0450			
2	BATTERY			XL SERIES
	10 — # +(1) A48			
	*82583-1780A			

82131(1/13)

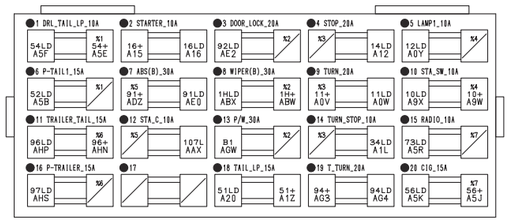
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
1	FUSE1	B		L SERIES



*82610-E0090

10A:SZ980-57051 15A:SZ980-57052 20A:SZ980-57053 30A:SZ980-57058

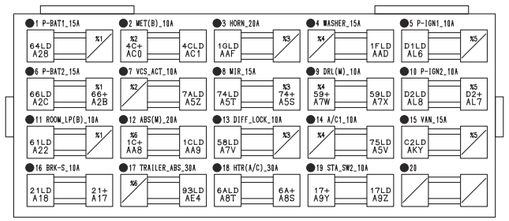
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
1	FUSE1	B		XL SERIES



*82610-E0090

10A:SZ980-57051 15A:SZ980-57052 20A:SZ980-57053 30A:SZ980-57058

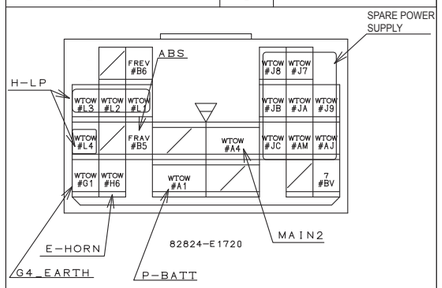
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
2	FUSE2	B		L SERIES

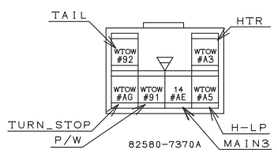


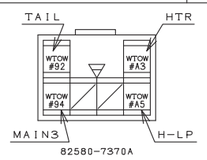
*82610-E0090

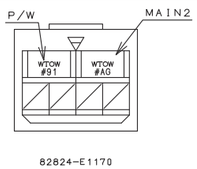
10A:SZ980-57051 15A:SZ980-57052 20A:SZ980-57053 30A:SZ980-57058

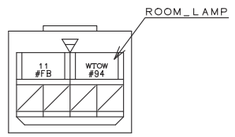
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
401	TO_82111_2	G		
402	TO_82111_3			L SERIES
402	TO_82111_3			XL SERIES
403	TO_82111_4			XL SERIES
403	TO_82111_4			L SERIES
404	TO_82111_5			
405	TO_82111_6			XL SERIES
406	TO_82113			
407	TO_82125			
408	TO_82151_RH	O		
409	TO_82152_LH1			

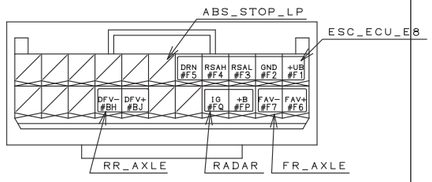


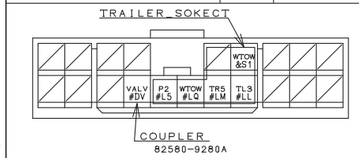


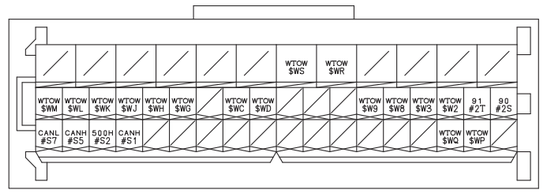


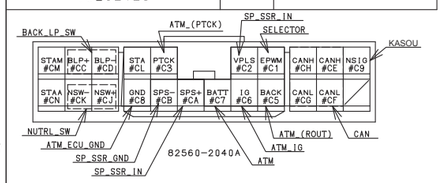


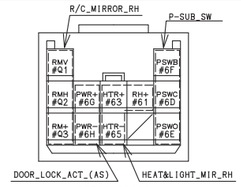


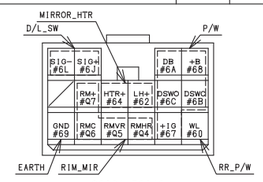


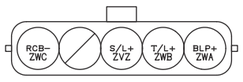
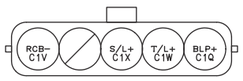






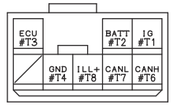




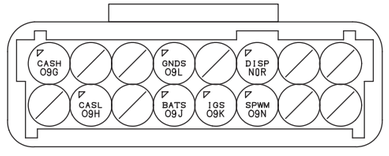
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	RR_COMB_LH_OUT	B		
	 S8281-E0D70			
3	RR_COMB_RH	B		
	 S8281-E0D70			

82236(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131			ALLISON 3000/3500
2	SELECTOR	GR		ALLISON 3000/3500



82824-E0T90



82828-1600A

6. TRACTOR VEHICLE

Mass and Dimensions

Formulae for Calculation (Tractor Vehicle)
When Calculating

gross combination mass

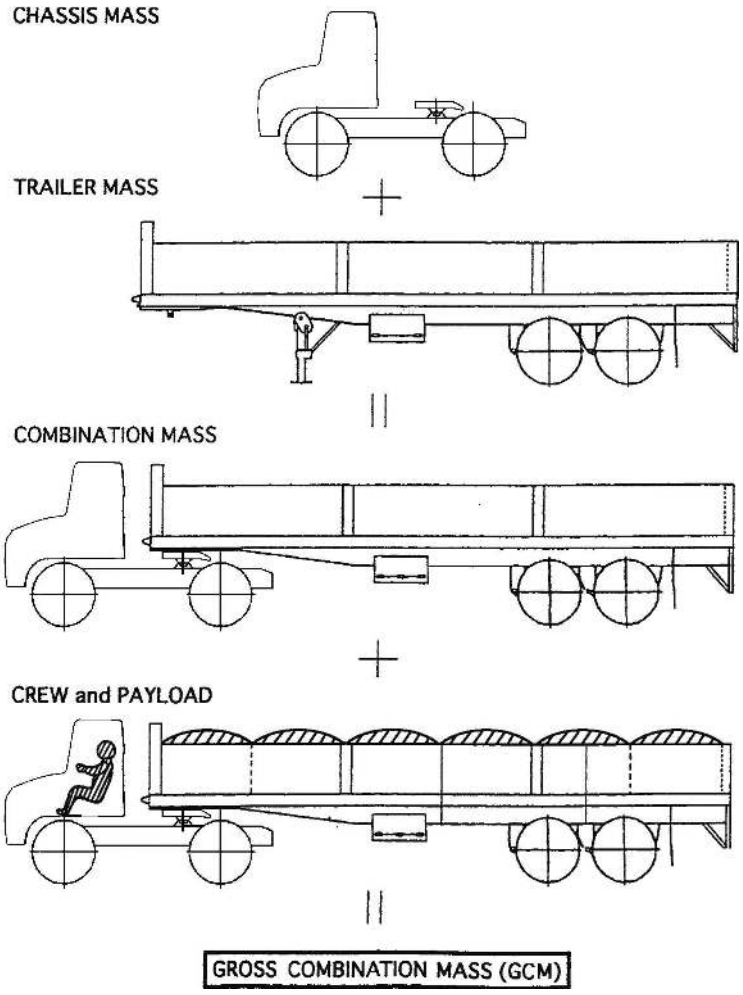
coupler offset,

body mass and

load center (coupler offset), use the formulae described in this section.

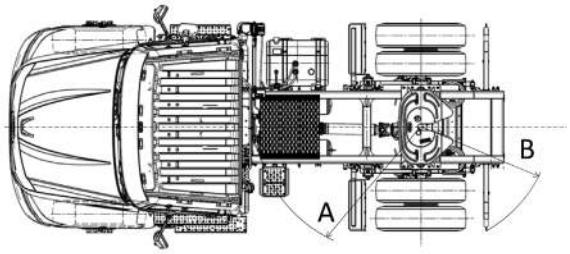
Gross Combination Mass (GCM)

What is Gross Combination Mass (GCM) ;



Front Fitting Radius and Rear Fitting Radius

"A" in the following illustration is called as "Front fitting radius" while "B" is named as "Rear fitting radius".



They are provided for preventing the interference between the tractor and the trailer when they are connected, particularly at the time of turning.
In the case of tractor which is delivered without a coupler, position of coupler base and of coupler mounting, etc. are not decided.
Therefore, calculate the front fitting radius and rear fitting radius according to the calculating method indicated on the following table.

Minimum clearance between tractor and trailer

	TRACTOR	TRAILER	CLEARANCE
FRONT FITTING RADIUS	A	C	A - C ≥ 80mm
REAR FITTING RADIUS	B	D	D - B ≥ 100 mm

Model	WB	Trailer fitting radius	
		A	B
THC2 (4x2)	3861(152)	2033 (80)	1469 (58)
	4191(165)	2363 (93)	1469 (58)
TMC2 (6x4)	4623(182)	2788 (110)	1867 (74)
	4928(194)	3093 (122)	1867 (74)