

# Chapter 12

## OTHERS DATA

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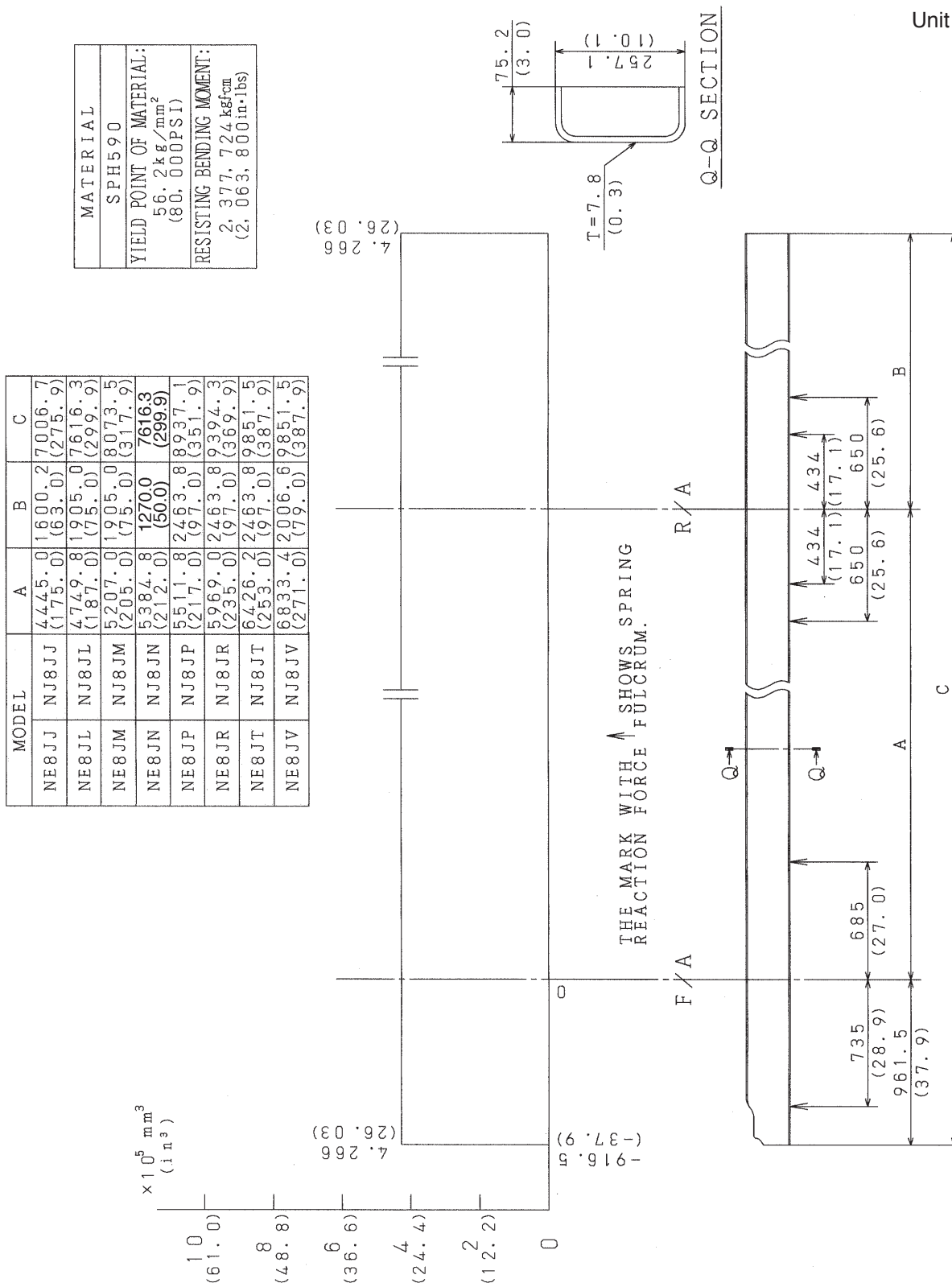
1. DIAGRAM OF FRAME SECTION MODULUS
2. SUSPENSION DEFLECTION CHART
3. BRAKE PIPING DIAGRAM
4. ELECTRIC WIRING DIAGRAM
5. CONNECTORS
6. METRIC/U.S. CUSTOMARY UNIT EQUIVALENTS

## 1. DIAGRAM OF FRAME SECTION MODULUS

MODEL : NE8J (EXCEPT NE8JGSA AND REAR AIR SUSPENSION)

NJ8J (EXCEPT NJ8JGSA AND REAR AIR SUSPENSION)

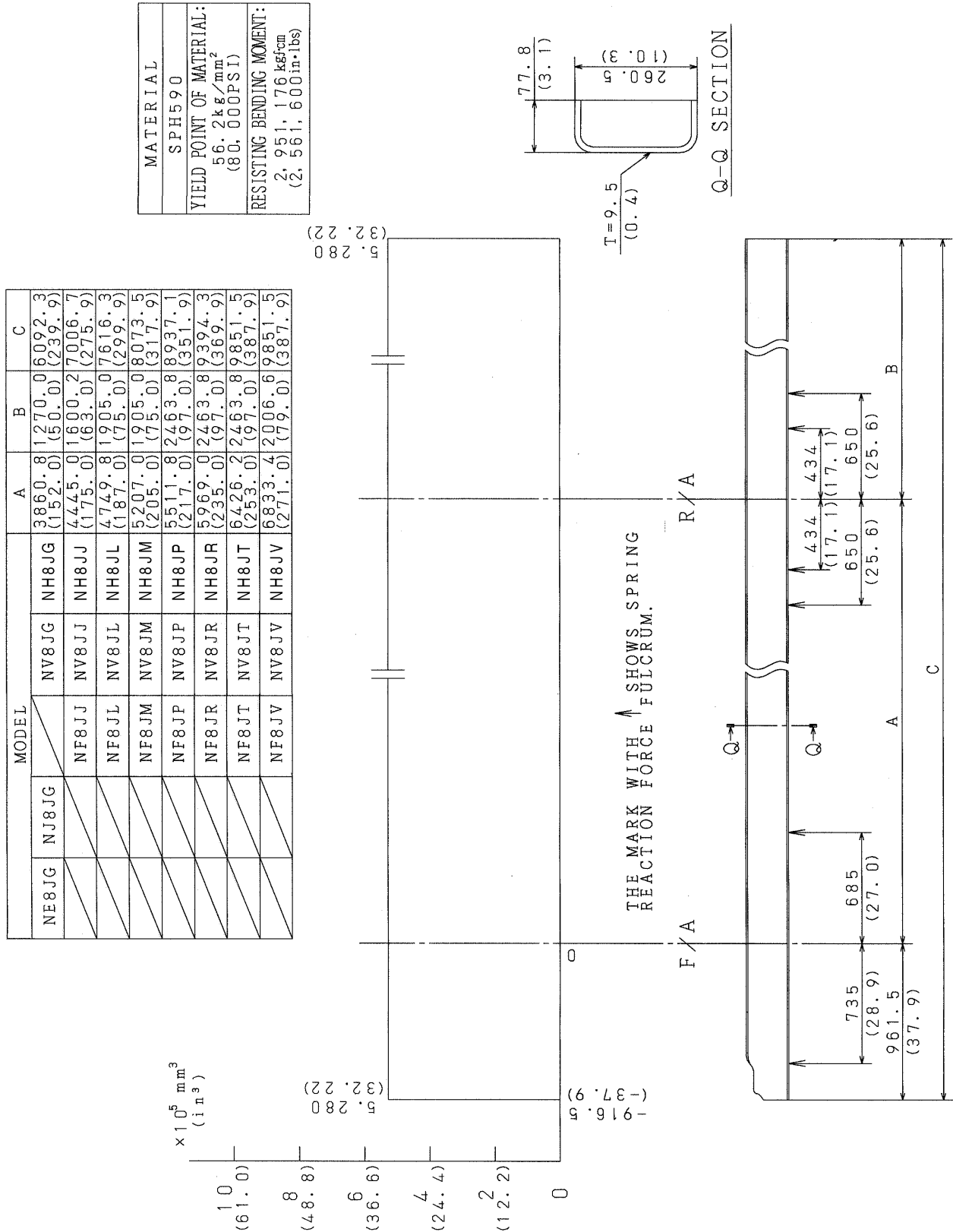
• DIAGRAM OF SECTION MODULUS OF MAIN FRAME ON BOTH SIDES



**MODEL : NE8JGSA AND NJ8JGSA****NF8J, NV8J AND NH8J (EXCEPT REAR AIR SUSPENSION)**

- DIAGRAM OF SECTION MODULUS OF MAIN FRAME ON BOTH SIDES

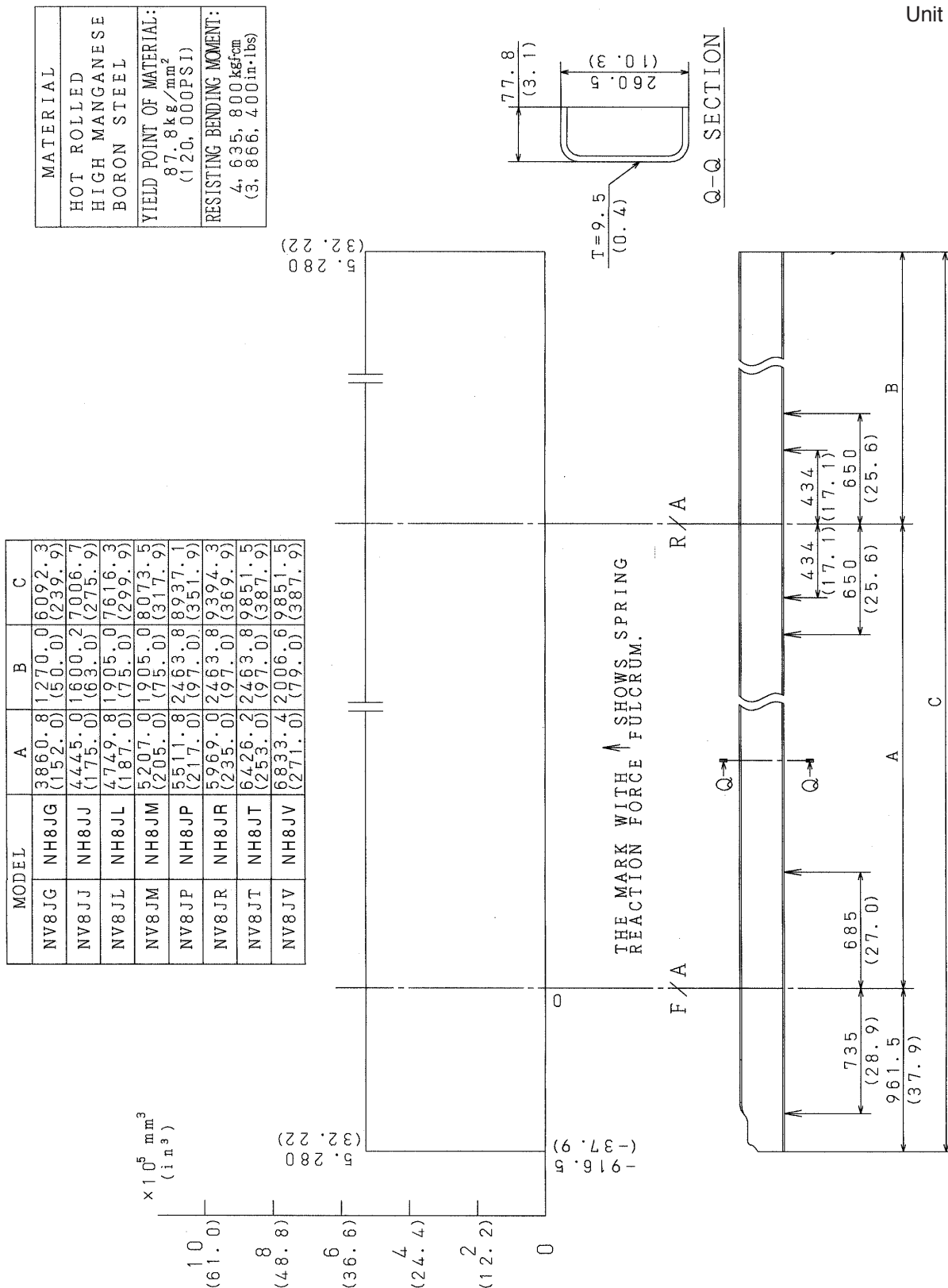
Unit : mm (in.)



**MODEL : NV8JGSA, JSA, LSA, MSA, PSA, RSA, TSA, VSA**  
**NH8JGSA, JSA, LSA, MSA, PSA, RSA, TSA, VSA**  
**(YIELD POINT OF MATERIAL : 120000PSI)**

• DIAGRAM OF SECTION MODULUS OF MAIN FRAME ON BOTH SIDES

Unit : mm (in.)

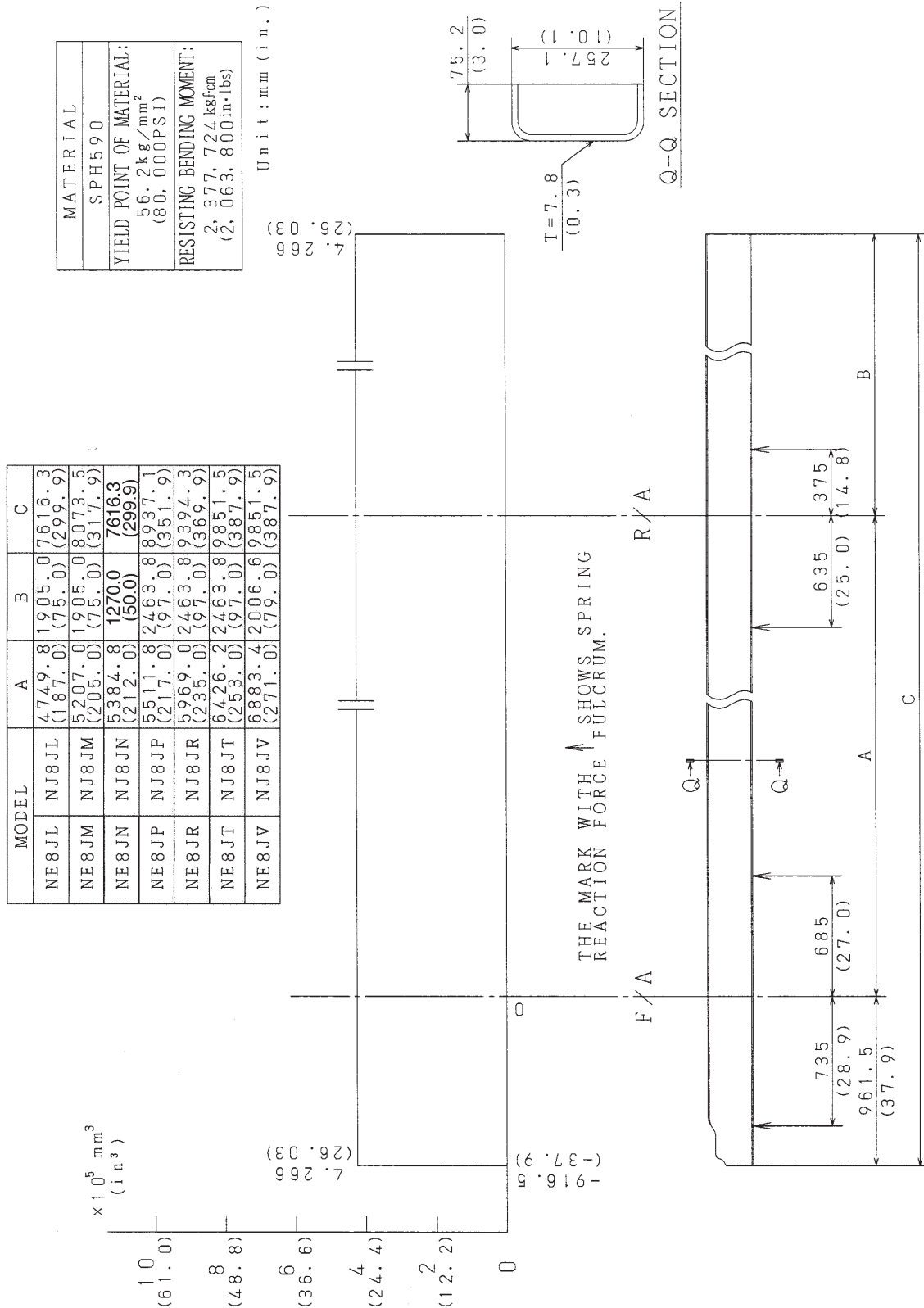




**MODEL : NE8J (REAR AIR SUSPENSION EXCEPT NE8JGSG)  
NJ8J (REAR AIR SUSPENSION EXCEPT NJ8JGSG)**

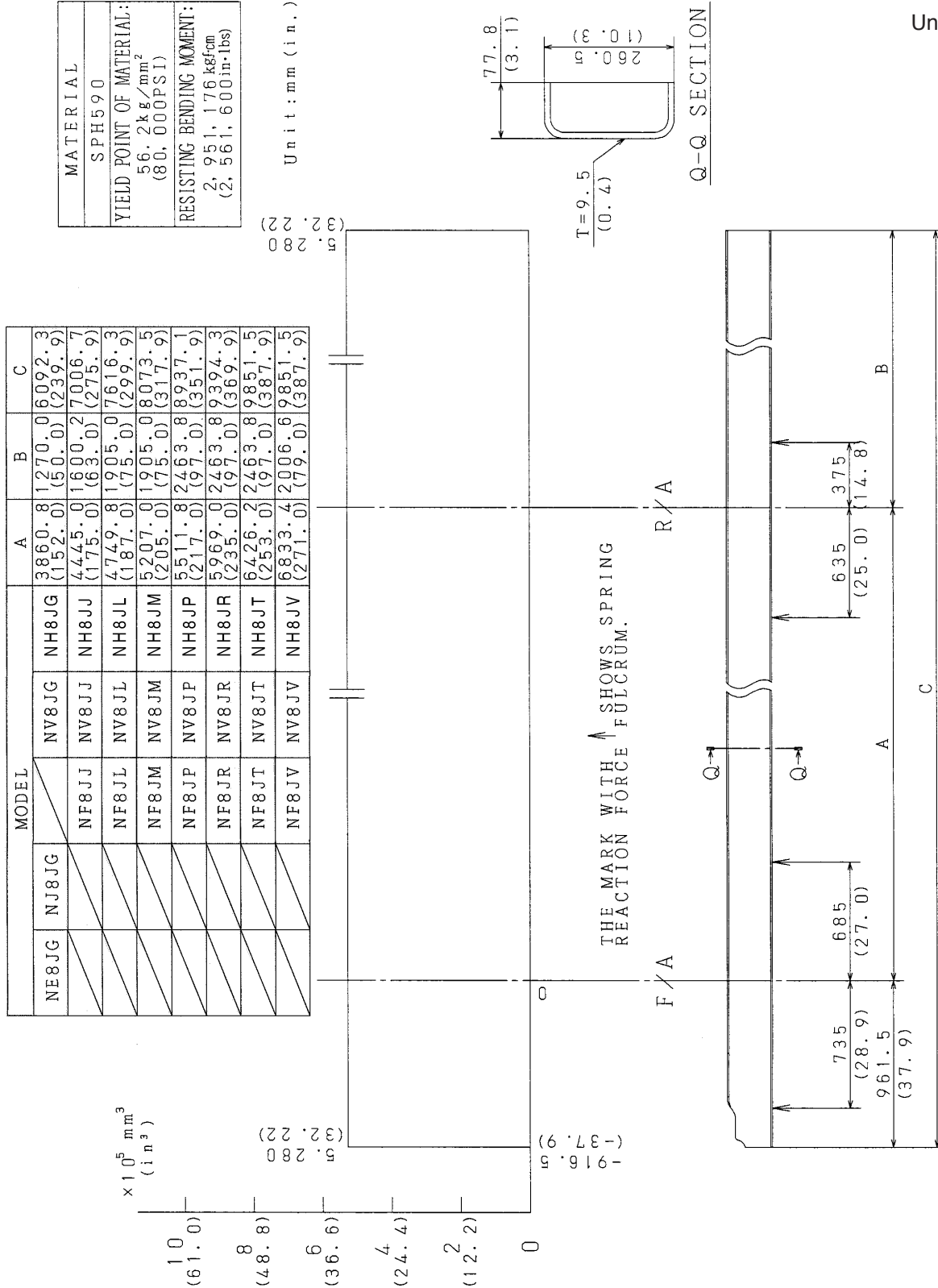
• DIAGRAM OF SECTION MODULUS OF MAIN FRAME ON BOTH SIDES

Unit : mm (in.)



**MODEL : NE8JGSG AND NJ8JGSG**  
**NF8J (REAR AIR SUSPENSION)**  
**NV8J (REAR AIR SUSPENSION)**  
**NH8J (REAR AIR SUSPENSION)**

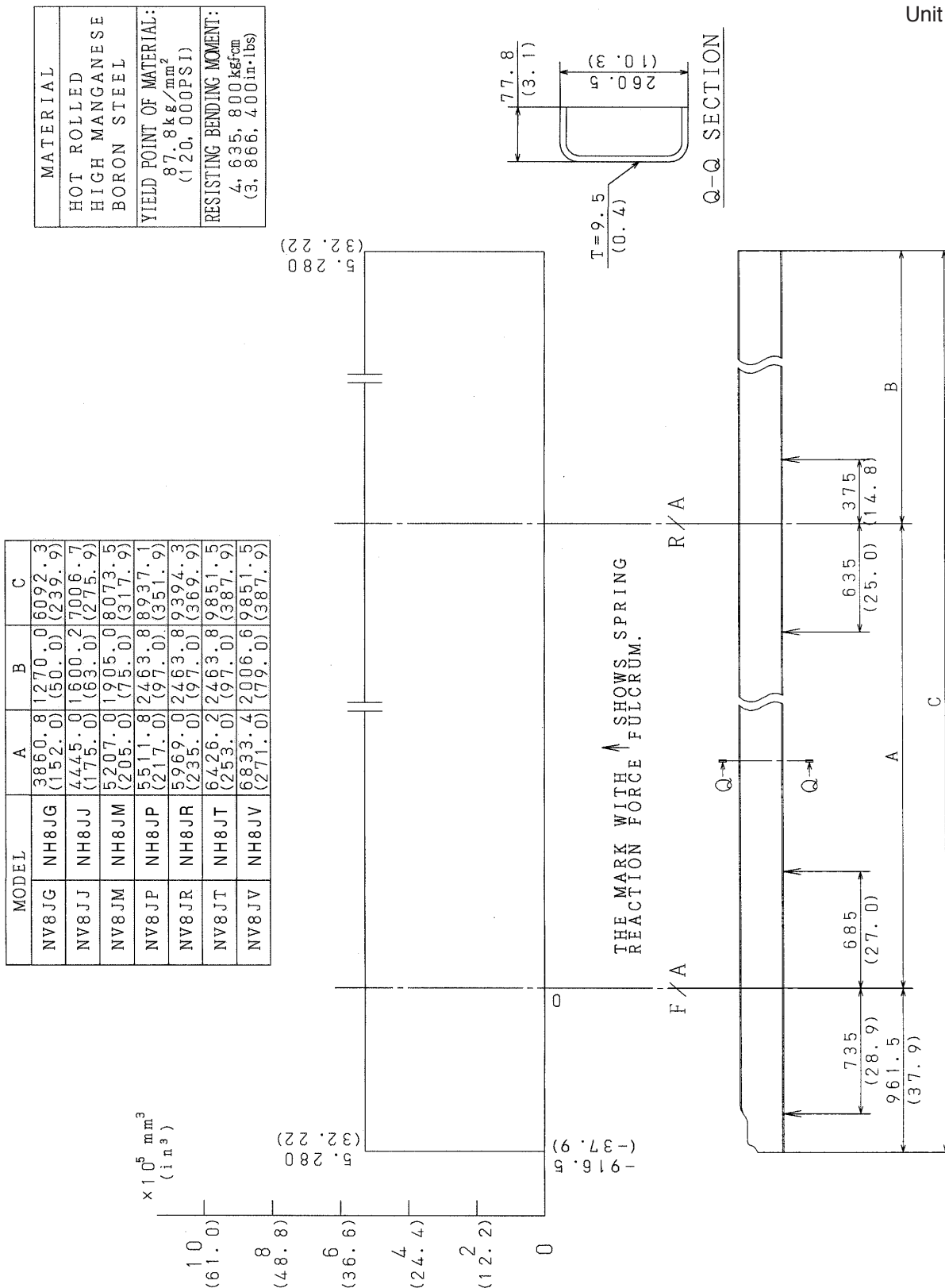
• DIAGRAM OF SECTION MODULUS OF MAIN FRAME ON BOTH SIDES



**MODEL : NV8J (REAR AIR SUSPENSION)**  
**NH8J (REAR AIR SUSPENSION)**  
**(YIELD POINT OF MATERIAL : 120000 PSI)**

- DIAGRAM OF SECTION MODULUS OF MAIN FRAME ON BOTH SIDES

Unit : mm (in.)

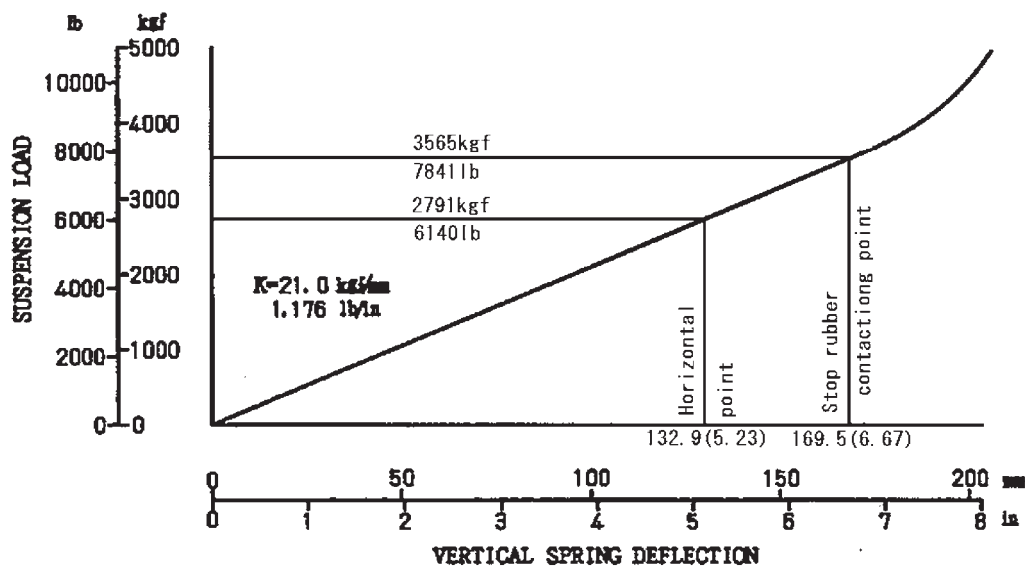


## 2. SUSPENSION DEFLECTION CHART

### • FRONT SPRING PER ONE SIDE

MODEL : NE AND NJ

CAPACITY : 8000lbs (OPT)

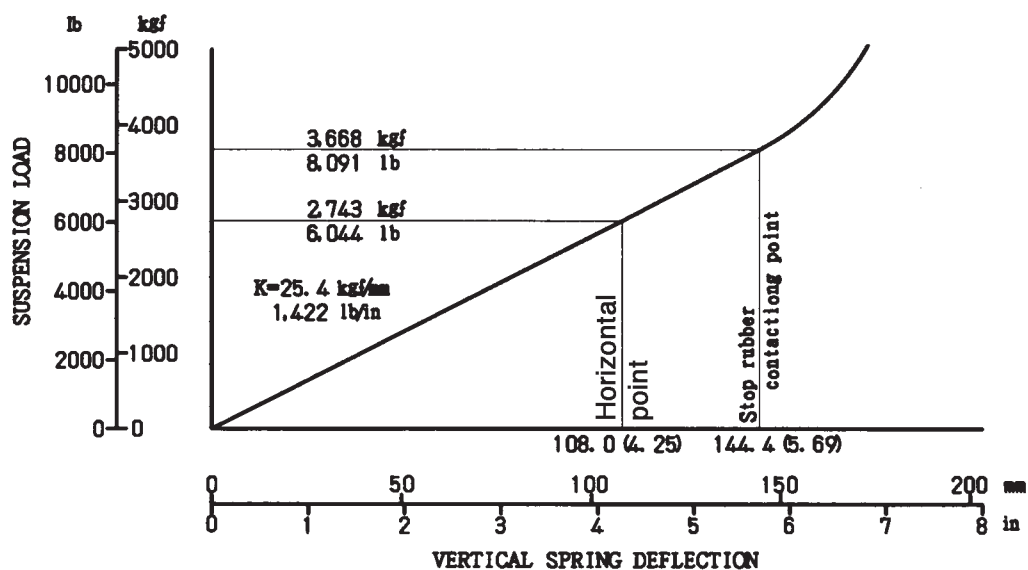


Unit: kgf (lb), mm (in.)

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
227 (500)	10.8 (0.43)
454 (1000)	21.6 (0.85)
680 (1500)	32.4 (1.28)
907 (2000)	43.2 (1.70)
1134 (2500)	54.0 (2.13)
1361 (3000)	64.8 (2.55)
1588 (3500)	75.6 (2.98)
1814 (4000)	86.4 (3.40)
2041 (4500)	97.2 (3.83)
2268 (5000)	108.0 (4.25)
2495 (5500)	118.8 (4.68)
2722 (6000)	129.6 (5.10)
2948 (6500)	140.4 (5.53)

MODEL : NE, NJ, NF, NV AND NH

CAPACITY : 12000lbs (STD)

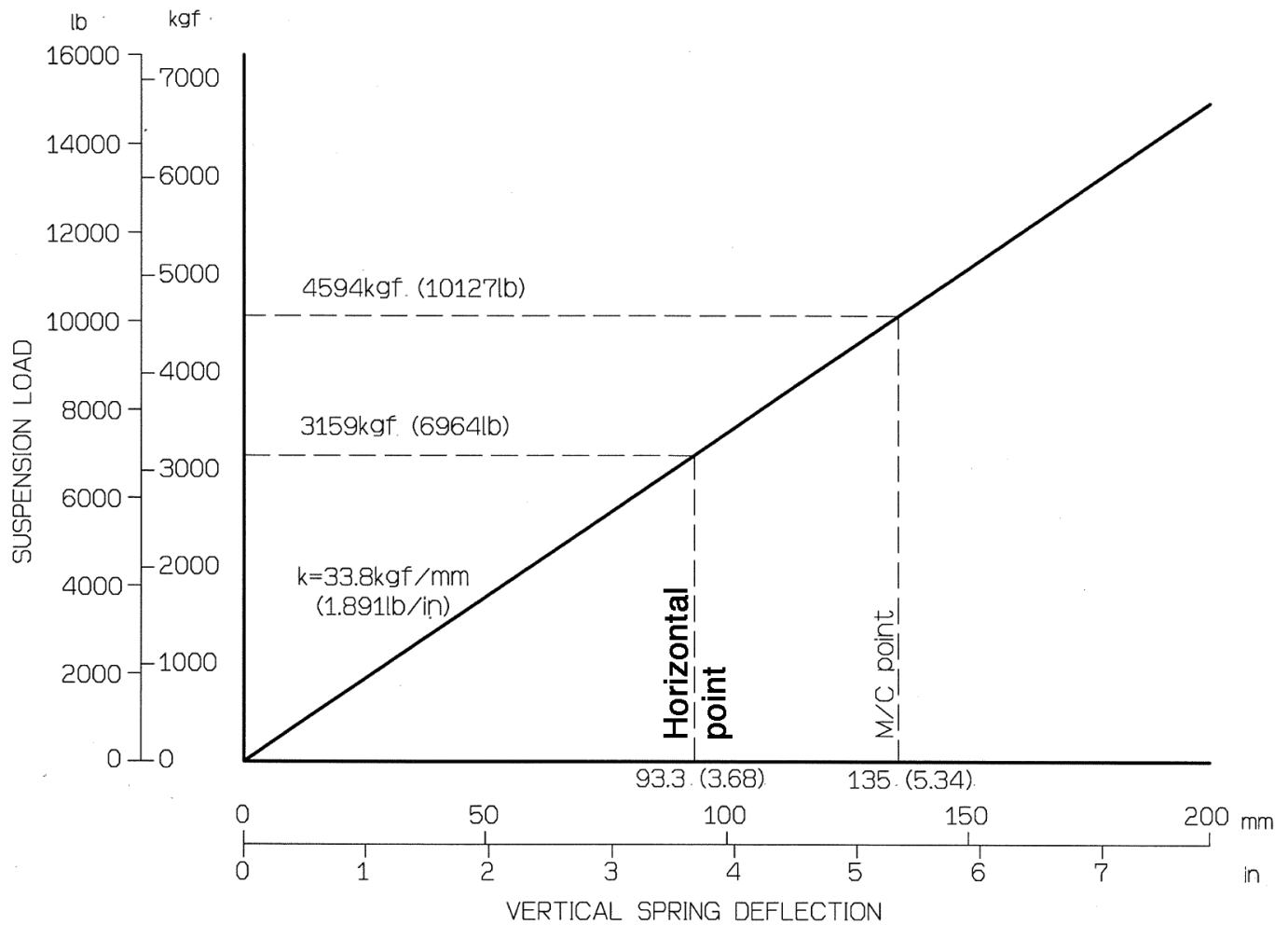


Unit: kgf (lb), mm (in.)

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
227 (500)	8.9 (0.35)
454 (1000)	17.9 (0.70)
680 (1500)	26.8 (1.06)
907 (2000)	35.7 (1.41)
1134 (2500)	44.6 (1.76)
1361 (3000)	53.6 (2.11)
1588 (3500)	62.5 (2.46)
1814 (4000)	71.4 (2.81)
2041 (4500)	80.3 (3.16)
2268 (5000)	89.3 (3.52)
2495 (5500)	98.2 (3.87)
2722 (6000)	107.2 (4.22)
2948 (6500)	116.1 (4.57)
3175 (7000)	125.0 (4.92)
3402 (7500)	133.9 (5.27)

**MODEL : NV AND NH**

**CAPACITY : 14000lbs (OPT)**



Unit : kgf ( lb ), mm ( in )

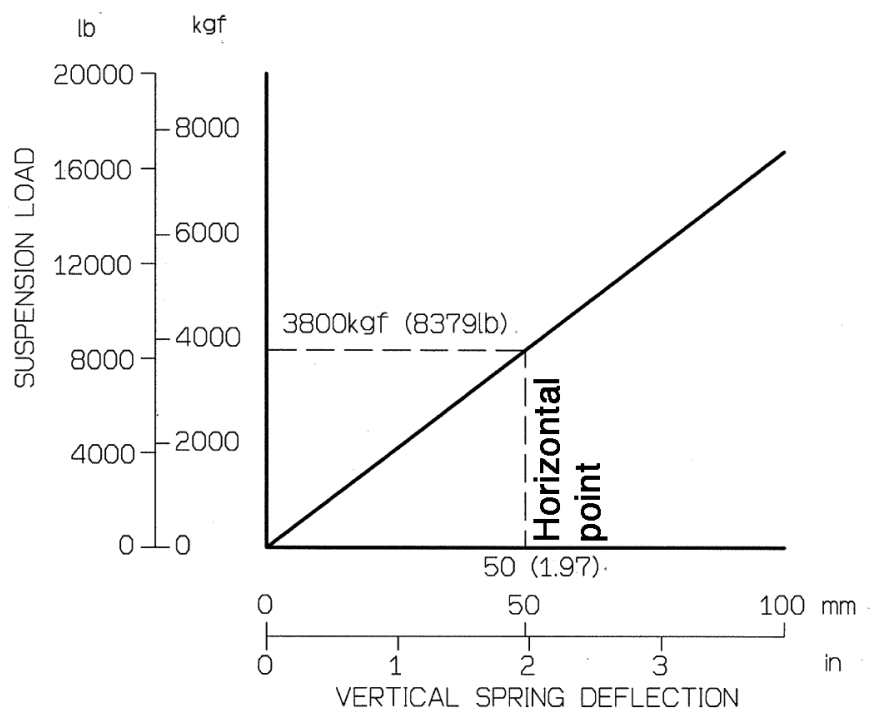
SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
227 ( 500 )	6.7 ( 0.26 )
454 ( 1000 )	13.4 ( 0.53 )
680 ( 1500 )	20.0 ( 0.79 )
907 ( 2000 )	26.7 ( 1.05 )
1134 ( 2500 )	33.5 ( 1.32 )
1361 ( 3000 )	40.2 ( 1.58 )
1588 ( 3500 )	46.9 ( 1.85 )
1814 ( 4000 )	53.5 ( 2.11 )
2041 ( 4500 )	60.2 ( 2.37 )

• REAR SPRING PER ONE SIDE

MODEL : NE AND NJ (STD, WITHOUT HELPER SPRING)

K : 75.9kgf/mm (4.250lb/in.)

CAPACITY : 19000lbs



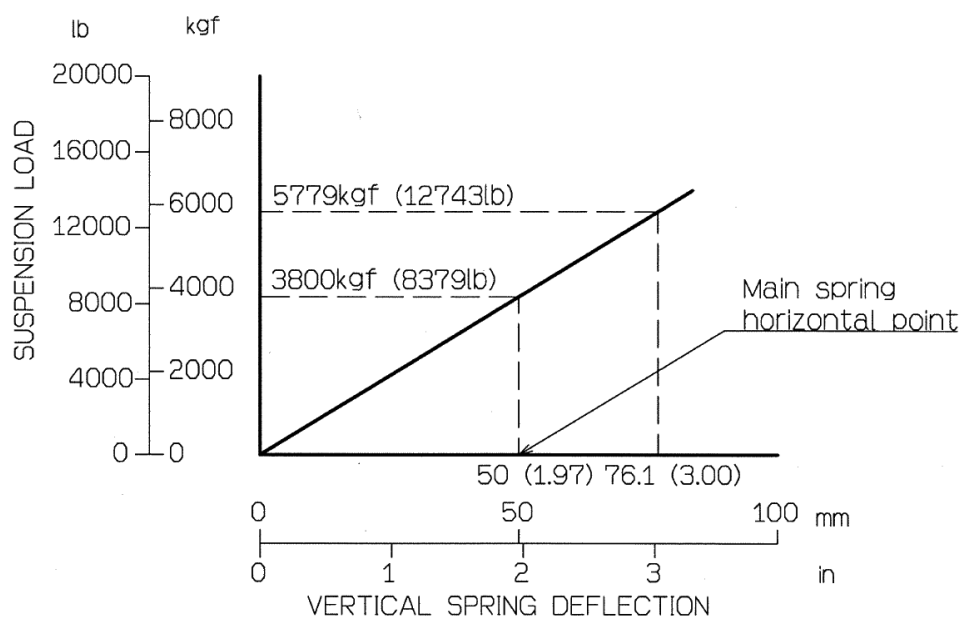
Unit : kgf ( lb ), mm ( in )

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	6.0 ( 0.24 )
907 ( 2000 )	12.0 ( 0.47 )
1361 ( 3000 )	17.9 ( 0.70 )
1814 ( 4000 )	23.9 ( 0.94 )
2268 ( 5000 )	29.9 ( 1.18 )
2721 ( 6000 )	35.8 ( 1.41 )
3175 ( 7000 )	41.8 ( 1.65 )
3628 ( 8000 )	47.8 ( 1.88 )
4082 ( 9000 )	53.8 ( 2.12 )
4535 ( 10000 )	59.7 ( 2.35 )
4989 ( 11000 )	65.7 ( 2.59 )
5442 ( 12000 )	71.7 ( 3.08 )
5896 ( 13000 )	77.7 ( 3.06 )
6349 ( 14000 )	83.6 ( 3.29 )

**MODEL : NE AND NJ (OPT, WITH HELPER SPRING)**

**K : 75.9kgf/mm (4.250lb/in.)**

**CAPACITY : 19000lbs**



Unit : kgf ( lb ), mm ( in )

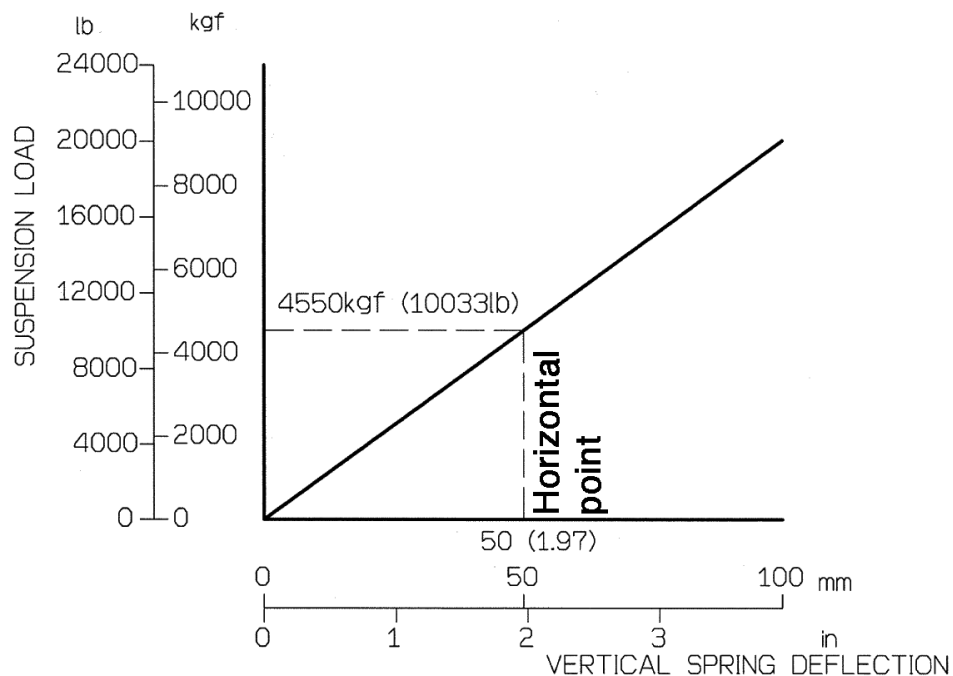
SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	6.0 ( 0.24 )
907 ( 2000 )	12.0 ( 0.47 )
1361 ( 3000 )	17.9 ( 0.70 )
1814 ( 4000 )	23.9 ( 0.94 )
2268 ( 5000 )	29.9 ( 1.18 )
2721 ( 6000 )	35.8 ( 1.41 )
3175 ( 7000 )	41.8 ( 1.65 )
3628 ( 8000 )	47.8 ( 1.88 )
4082 ( 9000 )	53.8 ( 2.12 )
4535 ( 10000 )	59.7 ( 2.35 )
4989 ( 11000 )	65.7 ( 2.59 )
5442 ( 12000 )	71.7 ( 3.08 )
5896 ( 13000 )	77.7 ( 3.06 )
6349 ( 14000 )	83.6 ( 3.29 )



**MODEL : NF, NV AND NH (STD, WITHOUT HELPER SPRING)**

**K : 90.9kgf/mm (5.090lb/in.)**

**CAPACITY : 21000lbs**



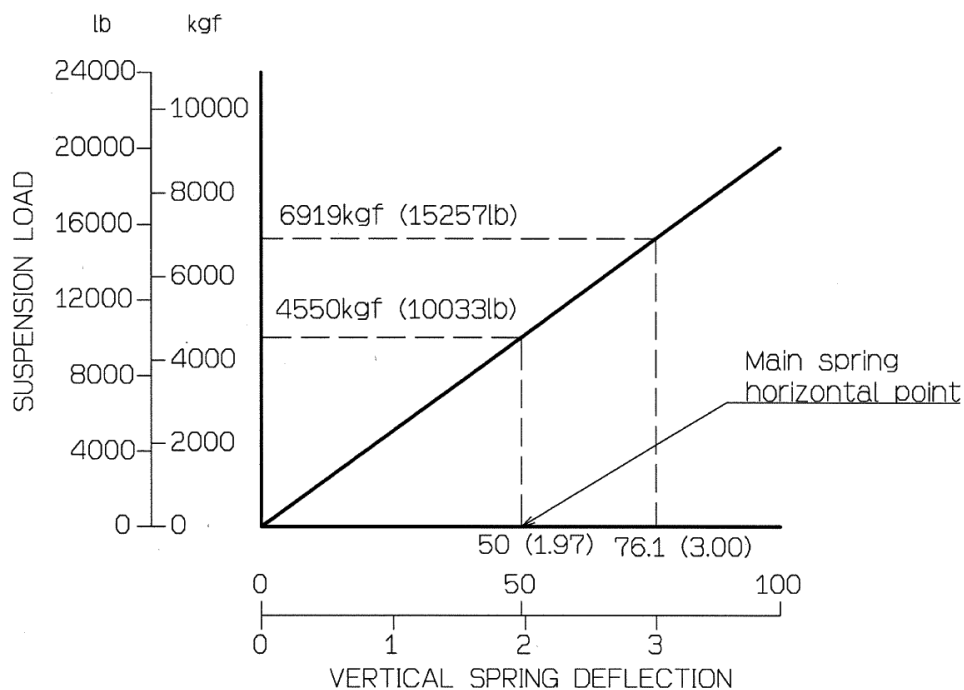
Unit : kgf ( lb ), mm ( in )

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	5.0 ( 0.20 )
907 ( 2000 )	10.0 ( 0.39 )
1361 ( 3000 )	15.0 ( 0.59 )
1814 ( 4000 )	20.0 ( 0.79 )
2268 ( 5000 )	25.0 ( 0.98 )
2721 ( 6000 )	29.9 ( 1.18 )
3175 ( 7000 )	34.9 ( 1.37 )
3628 ( 8000 )	39.9 ( 1.57 )
4082 ( 9000 )	44.9 ( 1.77 )
4535 ( 10000 )	49.9 ( 1.96 )
4989 ( 11000 )	54.9 ( 2.16 )
5442 ( 12000 )	59.9 ( 2.36 )
5896 ( 13000 )	64.8 ( 2.55 )
6349 ( 14000 )	69.8 ( 2.75 )

**MODEL : NF, NV AND NH (OPT, WITH HELPER SPRING)**

**K : 90.9kgf/mm (5.090lb/in.)**

**CAPACITY : 21000lbs**



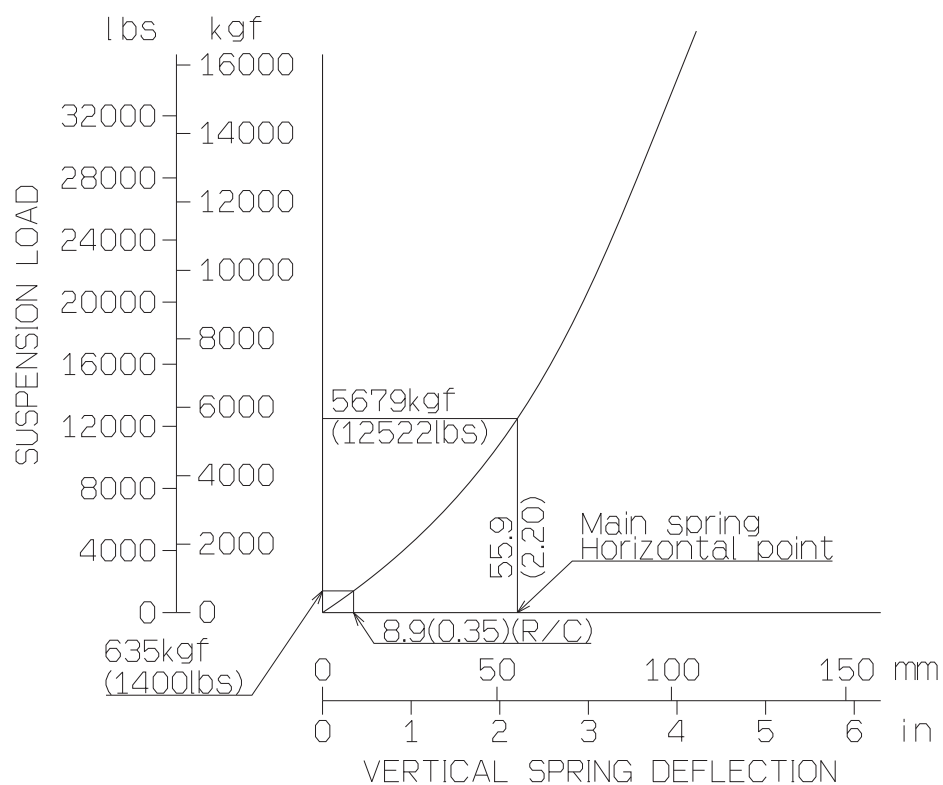
Unit : kgf ( lb ), mm ( in )

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	5.0 ( 0.20 )
907 ( 2000 )	10.0 ( 0.39 )
1361 ( 3000 )	15.0 ( 0.59 )
1814 ( 4000 )	20.0 ( 0.79 )
2268 ( 5000 )	25.0 ( 0.98 )
2721 ( 6000 )	29.9 ( 1.18 )
3175 ( 7000 )	34.9 ( 1.37 )
3628 ( 8000 )	39.9 ( 1.57 )
4082 ( 9000 )	44.9 ( 1.77 )
4535 ( 10000 )	49.9 ( 1.96 )
4989 ( 11000 )	54.9 ( 2.16 )
5442 ( 12000 )	59.9 ( 2.36 )
5896 ( 13000 )	64.8 ( 2.55 )
6349 ( 14000 )	69.8 ( 2.75 )

**MODEL : NV AND NH (OPT, WITH HELPER RUBBER)**

**K : 90.9kgf/mm (5.090lb/in.)**

**CAPACITY : 21000lbs**



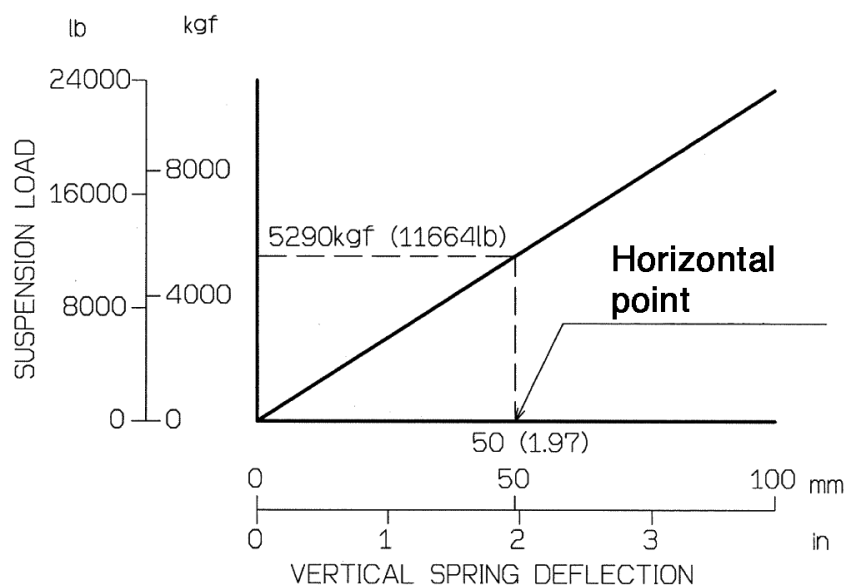
Unit : kgf ( lbs ), mm ( in )

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	6.5 ( 0.25 )
907 ( 2000 )	12.4 ( 0.49 )
1361 ( 3000 )	18.0 ( 0.71 )
1814 ( 4000 )	23.2 ( 0.91 )
2268 ( 5000 )	28.0 ( 1.10 )
2721 ( 6000 )	32.5 ( 1.28 )
3175 ( 7000 )	36.7 ( 1.45 )
3628 ( 8000 )	40.7 ( 1.60 )
4082 ( 9000 )	44.4 ( 1.75 )
4535 ( 10000 )	47.9 ( 1.89 )
4989 ( 11000 )	51.2 ( 2.02 )
5442 ( 12000 )	54.4 ( 2.14 )
5896 ( 13000 )	57.3 ( 2.26 )
6349 ( 14000 )	60.1 ( 2.37 )

**MODEL : NV AND NH (OPT, WITHOUT HELPER SPRING)**

**K : 105.7kgf/mm (5.920lb/in.)**

**CAPACITY : 23000lbs (OPT)**



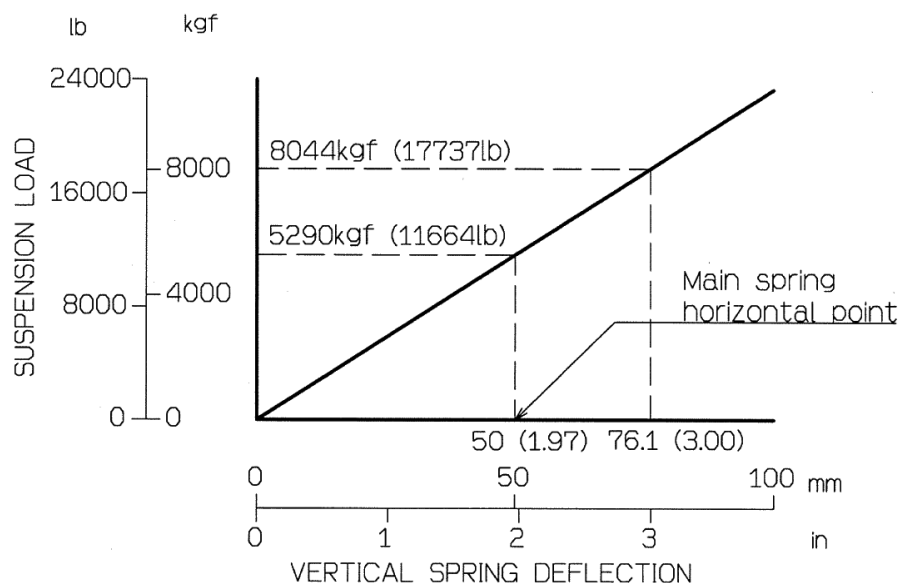
Unit : kgf ( lb ), mm ( in )

SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	4.3 ( 0.17 )
907 ( 2000 )	8.6 ( 0.34 )
1361 ( 3000 )	12.9 ( 0.51 )
1814 ( 4000 )	17.2 ( 0.68 )
2268 ( 5000 )	21.5 ( 0.84 )
2721 ( 6000 )	25.8 ( 1.01 )
3175 ( 7000 )	30.0 ( 1.18 )
3628 ( 8000 )	34.3 ( 1.35 )
4082 ( 9000 )	38.6 ( 1.52 )
4535 ( 10000 )	42.9 ( 1.69 )
4989 ( 11000 )	47.2 ( 1.86 )
5442 ( 12000 )	51.5 ( 2.03 )
5896 ( 13000 )	55.8 ( 2.20 )
6349 ( 14000 )	60.1 ( 2.36 )

**MODEL : NV AND NH (OPT, WITH HELPER SPRING)**

**K : 105.7kgf/mm (5.920lb/in.)**

**CAPACITY : 23000lbs (OPT)**

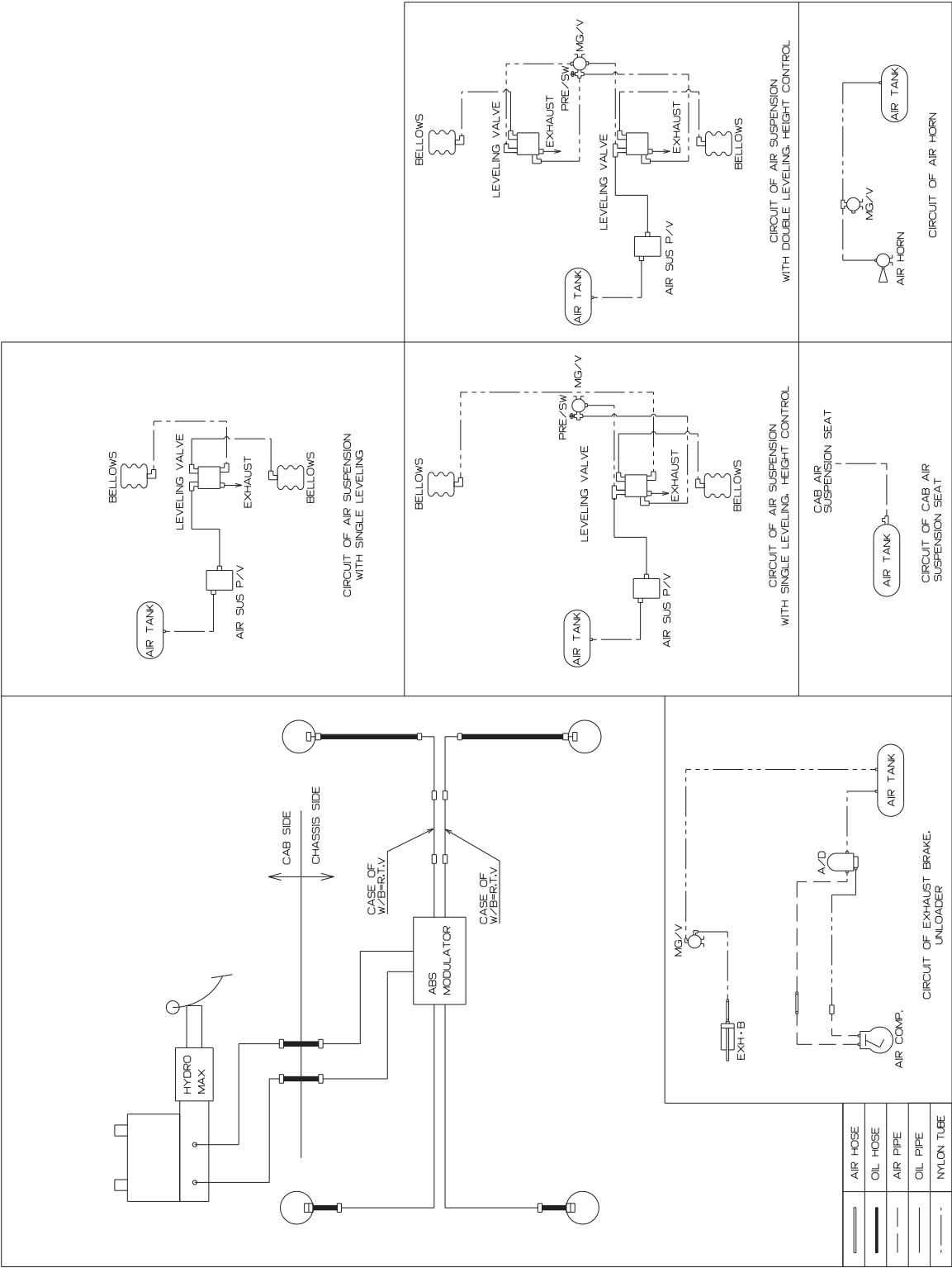


Unit : kgf ( lb ), mm ( in )

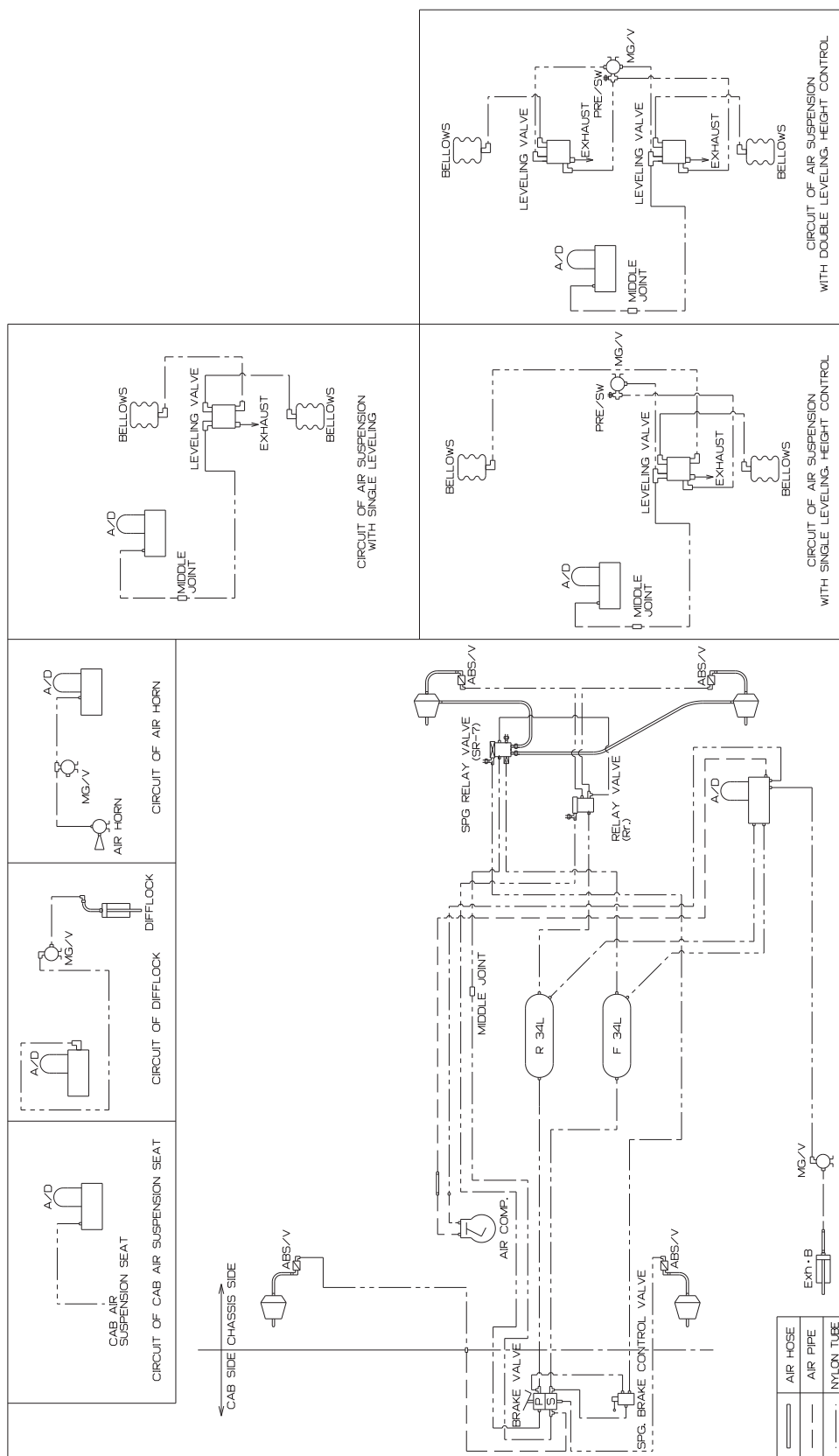
SUSPENSION LOAD	VERTICAL SPRING DEFLECTION
454 ( 1000 )	4.3 ( 0.17 )
907 ( 2000 )	8.6 ( 0.34 )
1361 ( 3000 )	12.9 ( 0.51 )
1814 ( 4000 )	17.2 ( 0.68 )
2268 ( 5000 )	21.5 ( 0.84 )
2721 ( 6000 )	25.8 ( 1.01 )
3175 ( 7000 )	30.0 ( 1.18 )
3628 ( 8000 )	34.3 ( 1.35 )
4082 ( 9000 )	38.6 ( 1.52 )
4535 ( 10000 )	42.9 ( 1.69 )
4989 ( 11000 )	47.2 ( 1.86 )
5442 ( 12000 )	51.5 ( 2.03 )
5896 ( 13000 )	55.8 ( 2.20 )
6349 ( 14000 )	60.1 ( 2.36 )

3. BRAKE PIPING DIAGRAM

• MODEL : NE AND NF



• MODEL : NJ, NV AND NH



## 4. ELECTRIC WIRING DIAGRAM

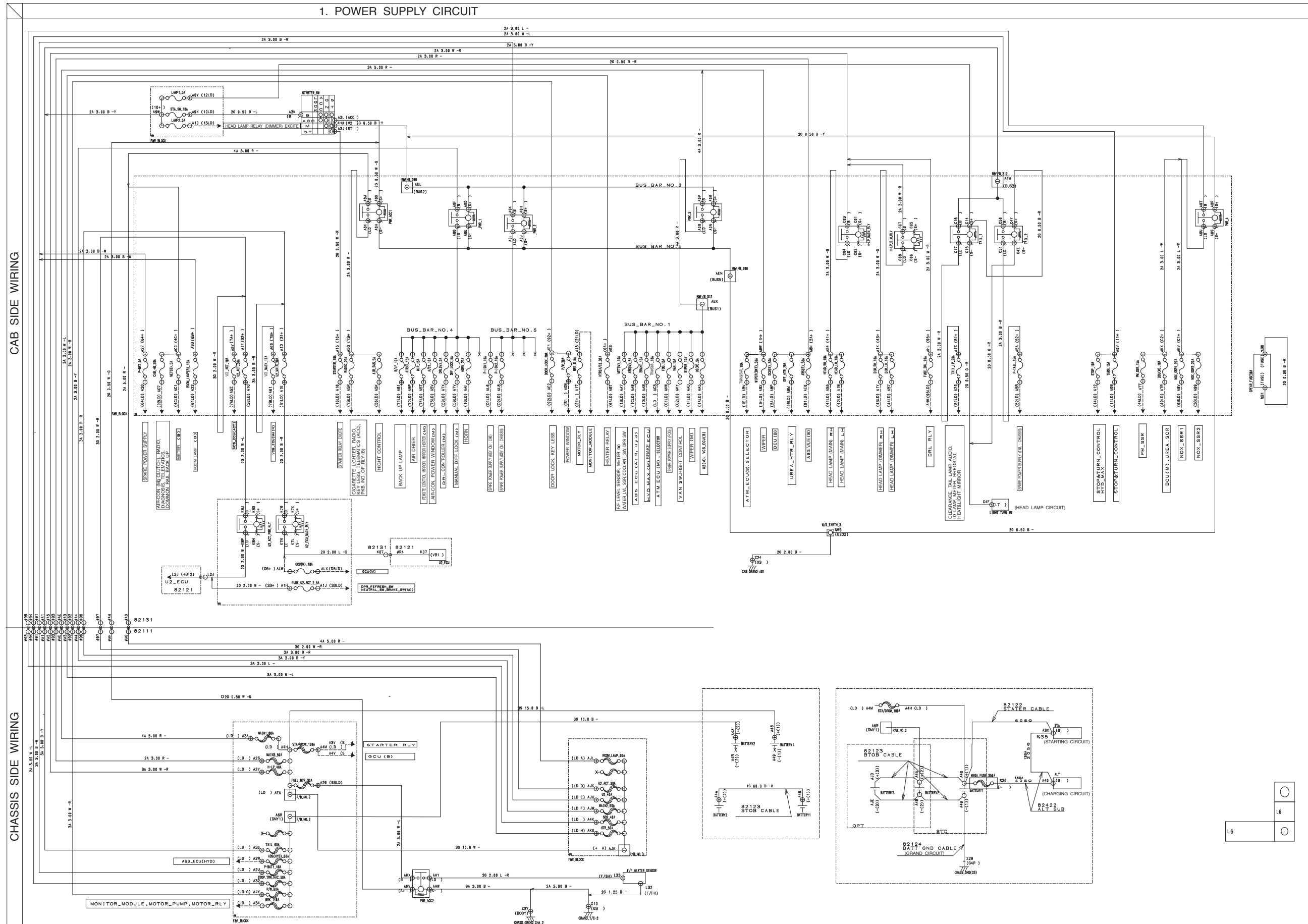
The Table of Circuit Name

NO.	CIRCUIT NAME
1	POWER SUPPLY CIRCUIT
2	STARTING CIRCUIT
3	PRE-HEAT CIRCUIT
4	CHARGING CIRCUIT
5	SPARE POWER SUPPLY CIRCUIT & FOG LAMP CIRCUIT
6	GRAND CIRCUIT_1
7	GRAND CIRCUIT_2
8	METER CIRCUIT
9	HEAD LAMP CIRCUIT_DAY TIME RUNNING LAMP
10	STOP LAMP & TURN SIGNAL LAMP CIRCUIT
11	STOP LAMP & TURN SIGNAL LAMP CIRCUIT_OPT FLASHER CUT W/H
12	ROOM LAMP CIRCUIT
13	WIPER & WASHER CIRCUIT
14	HEATING MIRROR CIRCUIT & REMOTE CONTROL MIRROR CIRCUIT
15	ELECTRICAL HORN CIRCUIT
16	AIR HORN CIRCUIT
17	CIGARETTE LIGHTER & ACC. SOCKET CIRCUIT
18	POWER WINDOW CIRCUIT
19	POWER DOOR LOCK & KEY LESS ENTRY CIRCUIT
20	AUDIO CIRCUIT
21	MANUAL AIR-CON CIRCUIT
22	COMMON RAIL CIRCUIT_6 CYLINDER ENGINE
23	COMMON RAIL CIRCUIT_MTM EXHAUST BRAKE
24	COMMON RAIL CIRCUIT_ATM EXHAUST BRAKE
25	COMMON RAIL CIRCUIT_PTO
26	COMMON RAIL CIRCUIT_EGR, VGT & D-THROTTLE
27	COMMON RAIL CIRCUIT_DPR
28	COMMON RAIL CIRCUIT_FS CURSE
29	VEHICLE CONTROL ECU CIRCUIT_1
30	VEHICLE CONTROL ECU CIRCUIT_2
31	VEHICLE CONTROL ECU CIRCUIT_3
32	VEHICLE CONTROL ECU CIRCUIT_4 (EXHAUST BRAKE)
33	DEF SCR CIRCUIT
33-1	DEF SCR CIRCUIT - UREA_SYSTEM
34	ABS CIRCUIT_FULL AIR BRAKE
35	ABS CIRCUIT_HYDRAULIC BRAKE Ver. E
36	HYDRAULIC BRAKE SYSTEM CIRCUIT
37	ALLISON 2200/2500 TRANS BASIC CIRCUIT
38	ALLISON 3000RDS TRANS BASIC CIRCUIT
39	DIAGNOSIS CIRCUIT
40	DIAG' CONNECTOR CIRCUIT
41	MANUAL DIFF LOCK CIRCUIT
42	AIR DRIER CIRCUIT
43	AIR SUS DUMP CIRCUIT
44	VEHICLE CAN CIRCUIT
45	E/G CONTROL & DIAG' CAN CIRCUIT
46	E/G RELATED & AFTER-TREATMENT CAN CIRCUIT
47	TELEMATICS CIRCUIT

[NOTE] 1) There are all the specifications included options.

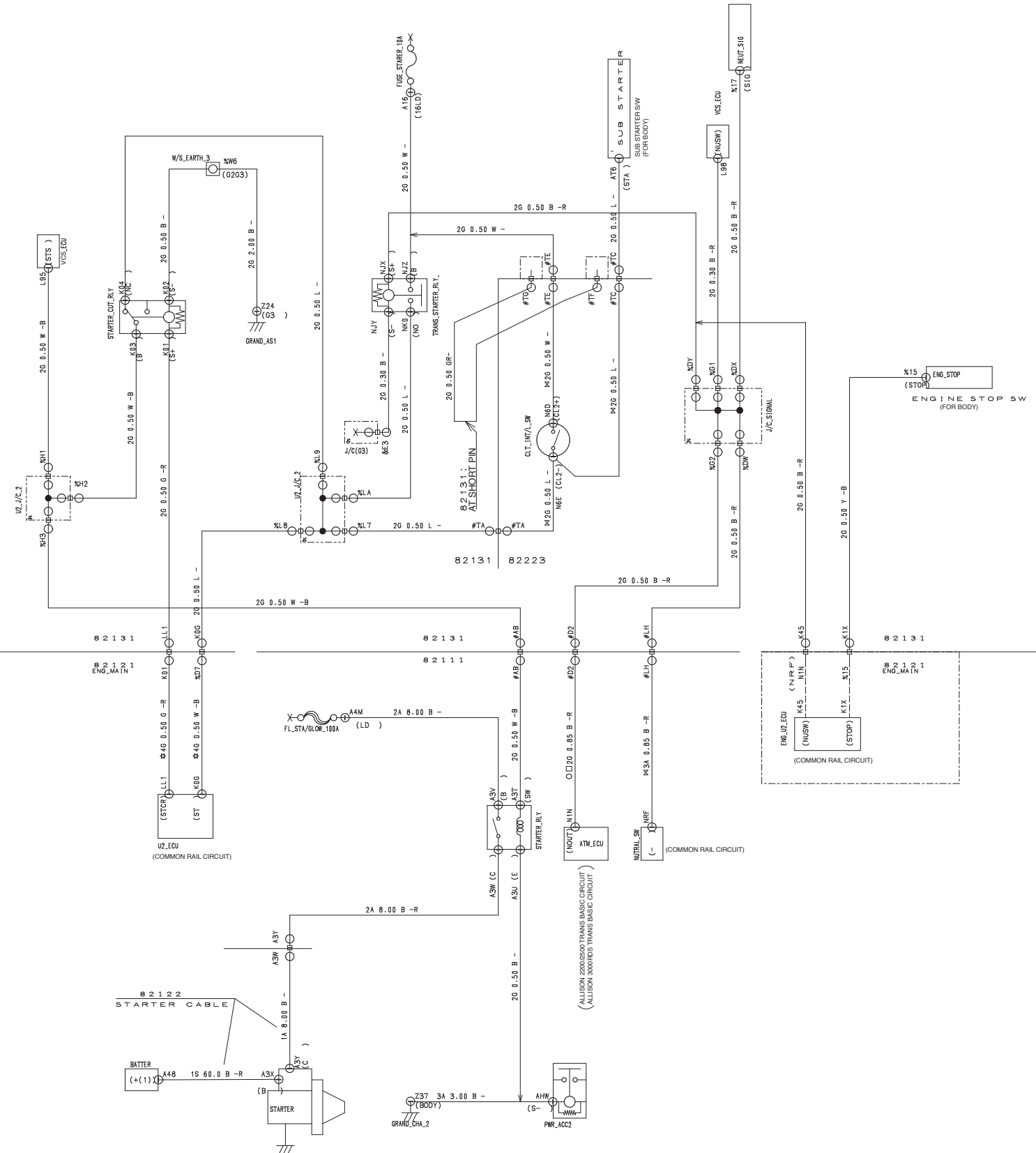
2) When you use these electrical diagrams, please understand the vehicle specifications.

























## CAB SIDE WIRING

## CHASSIS SIDE WIRING



				
	3000	220/250	MT	ENG_MAIN
3000				
220/250				
MT				
ENG_MAIN				

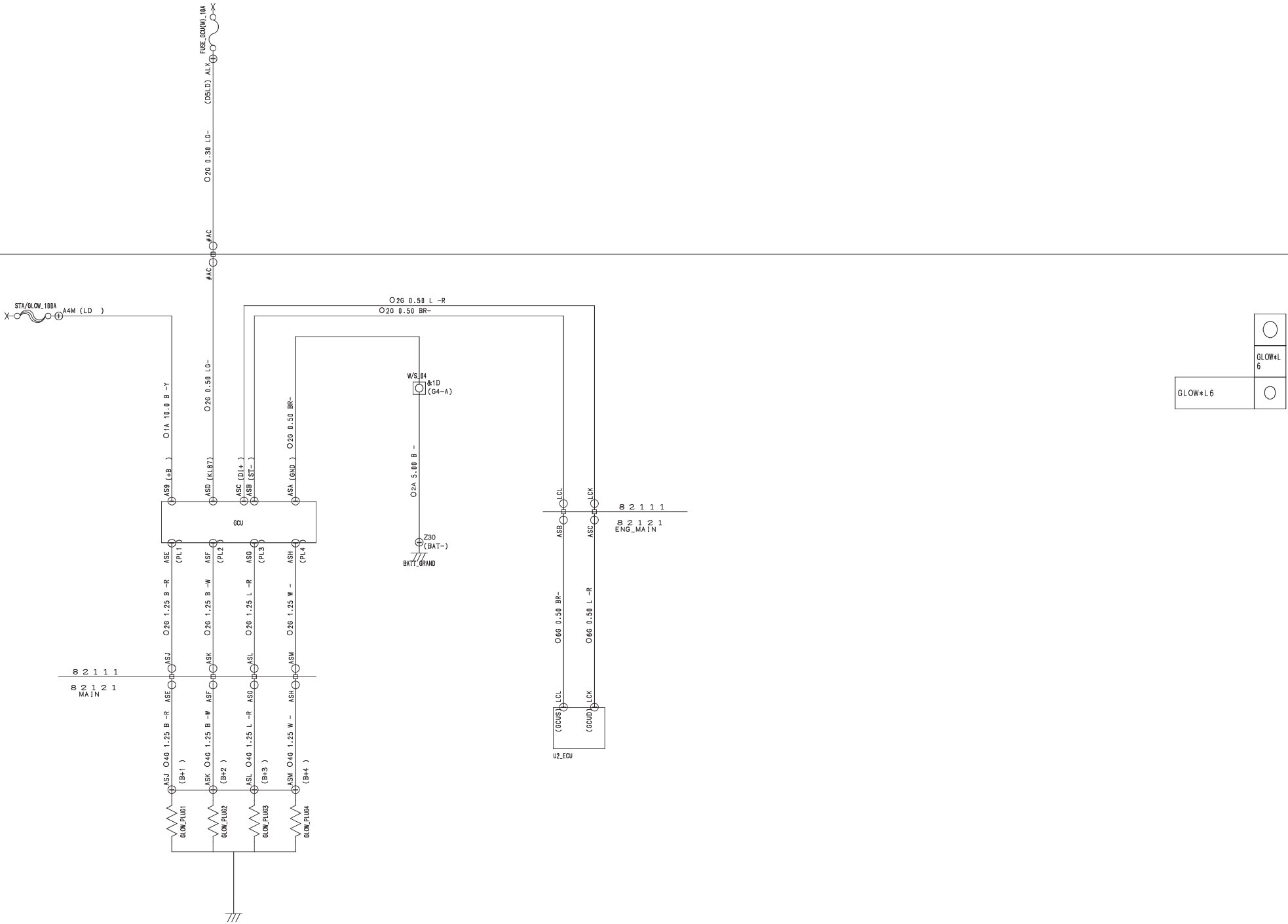
CAB SIDE WIRING

CHASSIS SIDE WIRING

3. PRE-HEAT CIRCUIT

8 2 1 3 1

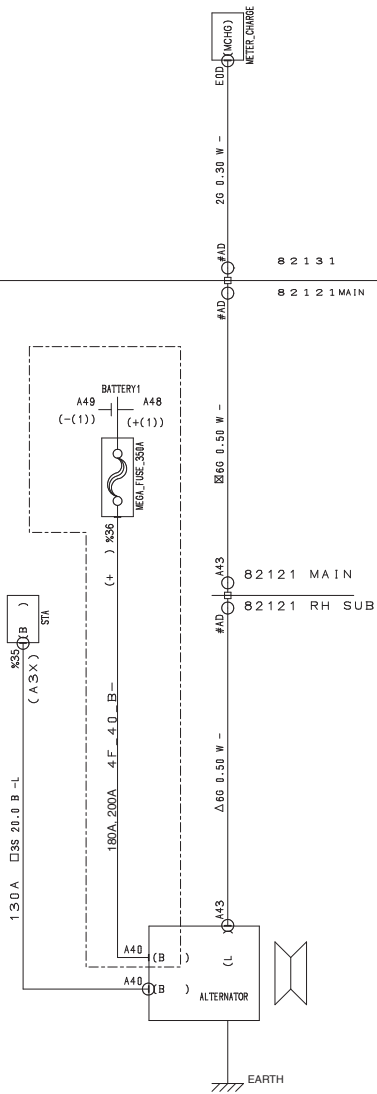
8 2 1 1 1



CAB SIDE WIRING

4. CHARGING CIRCUIT

CHASSIS SIDE WIRING



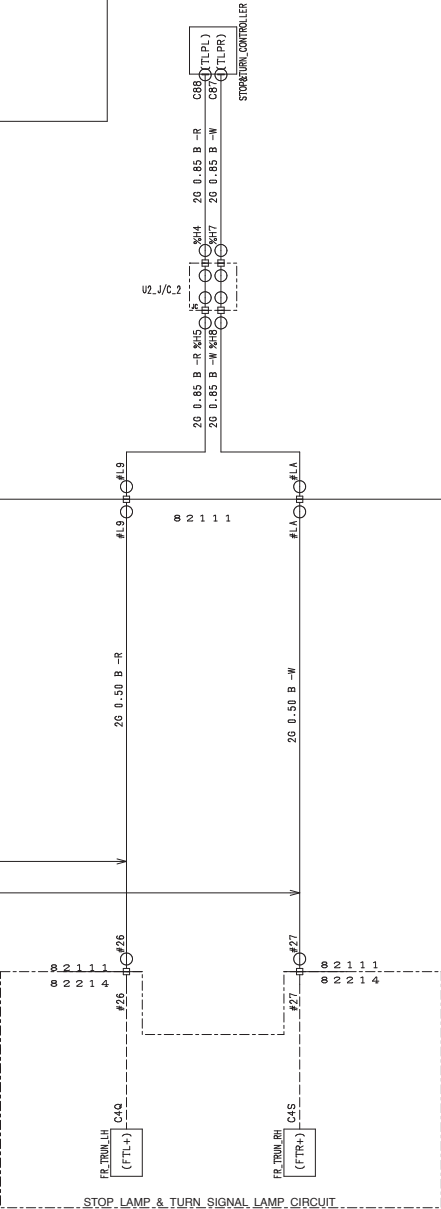
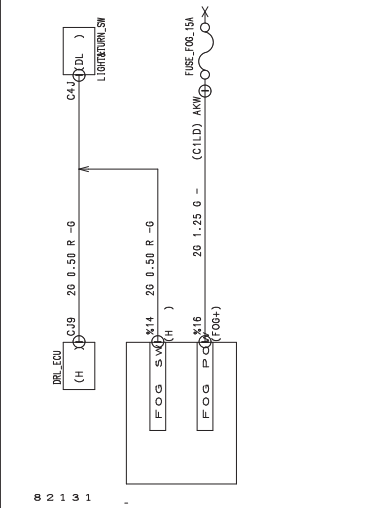
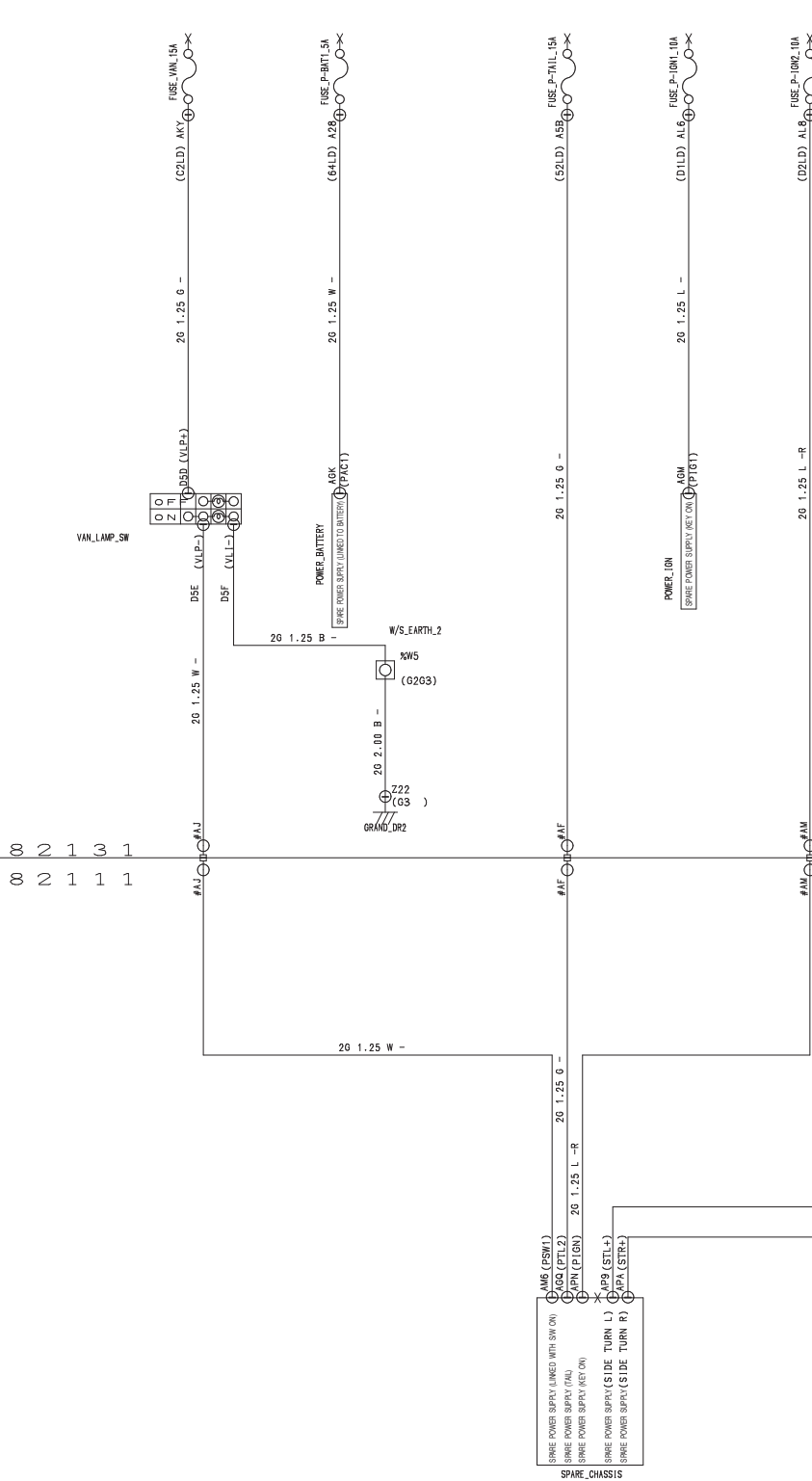
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	L6	ENG_MAIN	ENG_RH_SUB
L6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ENG_MAIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ENG_RH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

CAB SIDE WIRING

CHASSIS SIDE WIRING

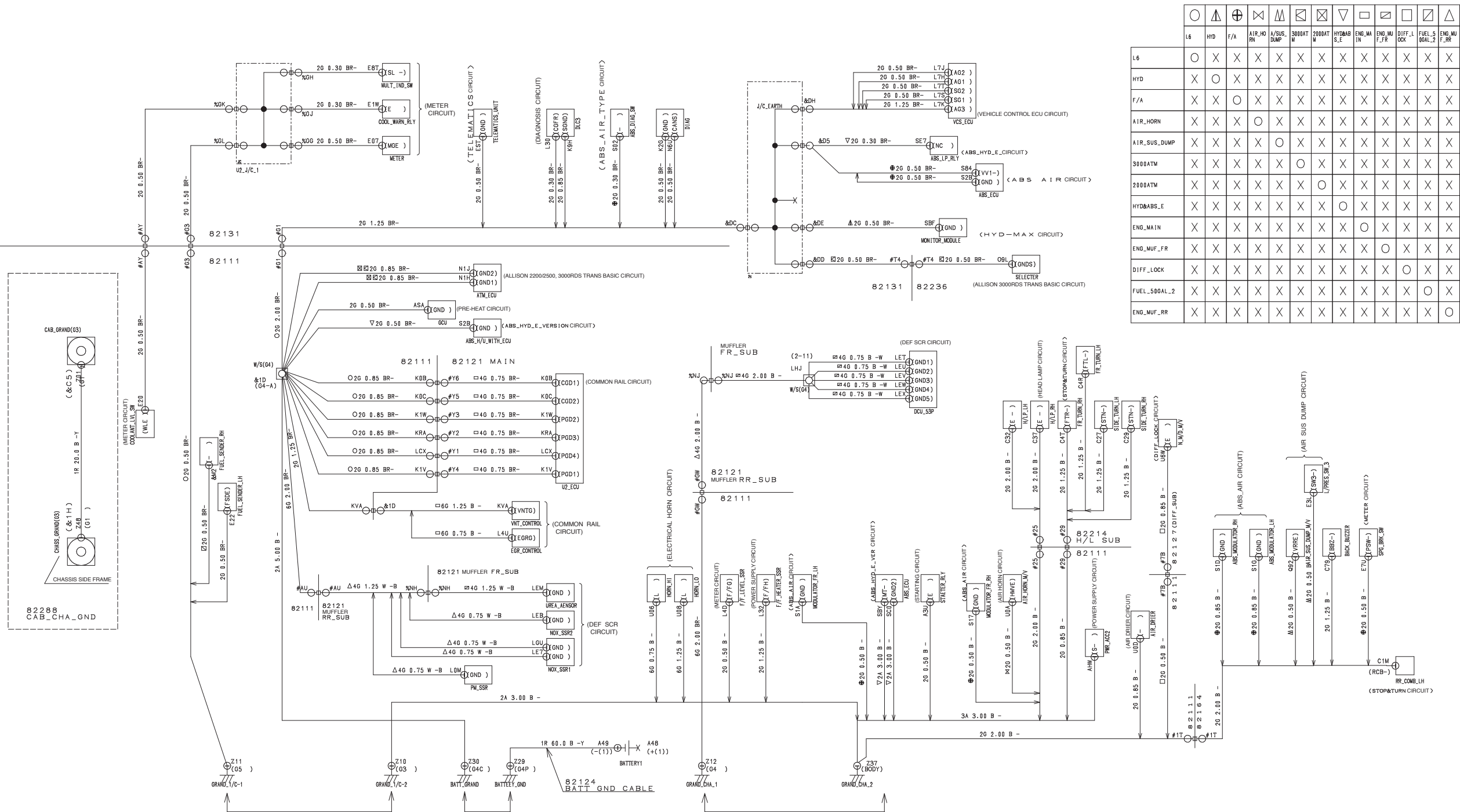
5. SPARE POWER SUPPLY CIRCUIT

FOG LAMP CIRCUIT

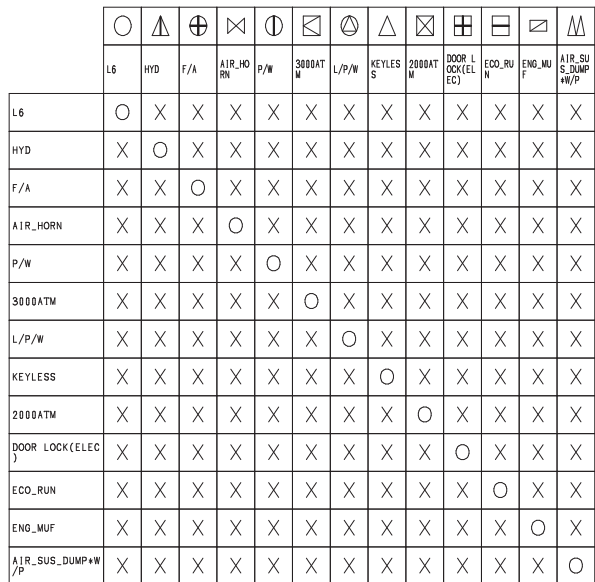


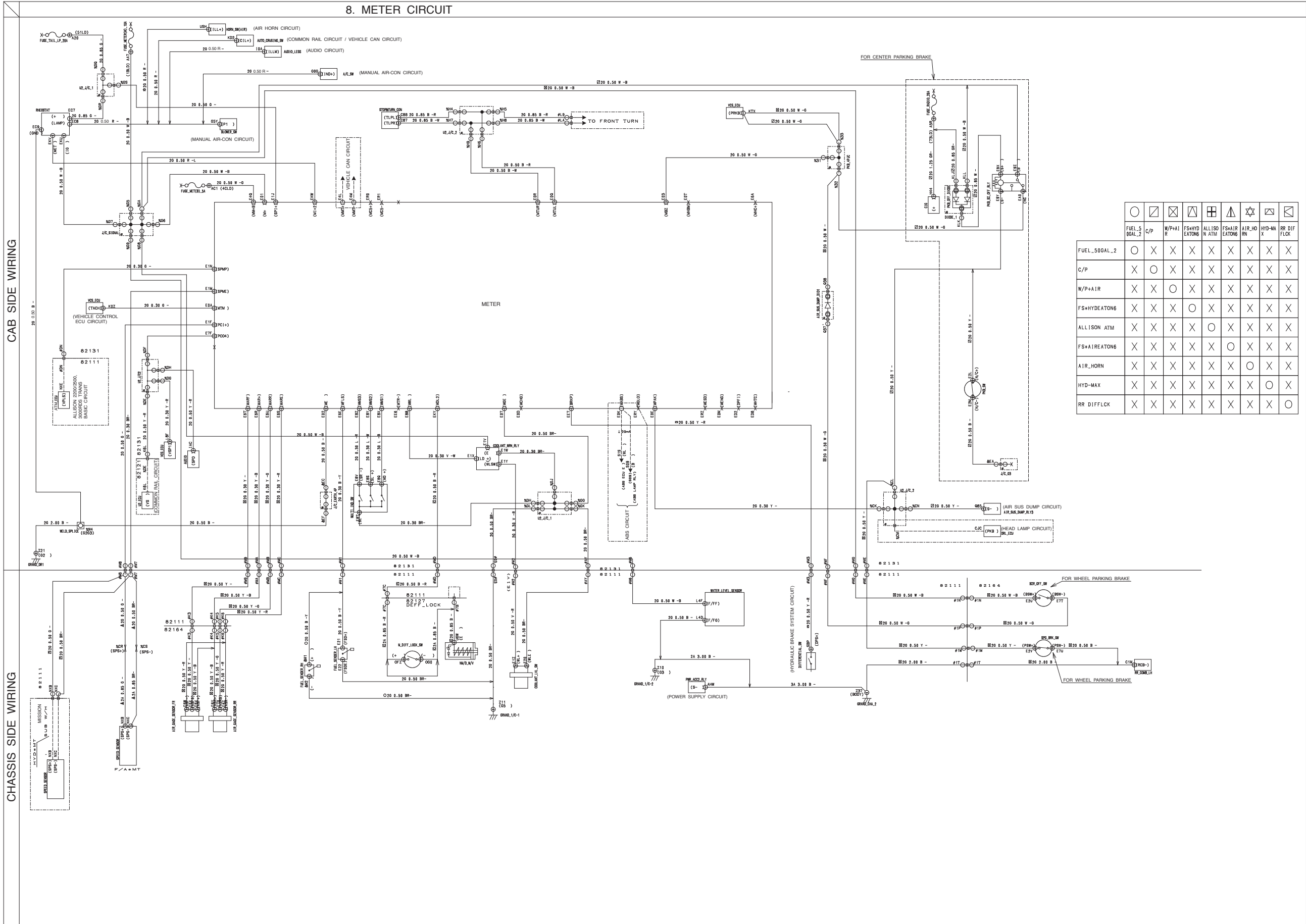
## CAB SIDE WIRING

## CHASSIS SIDE WIRING

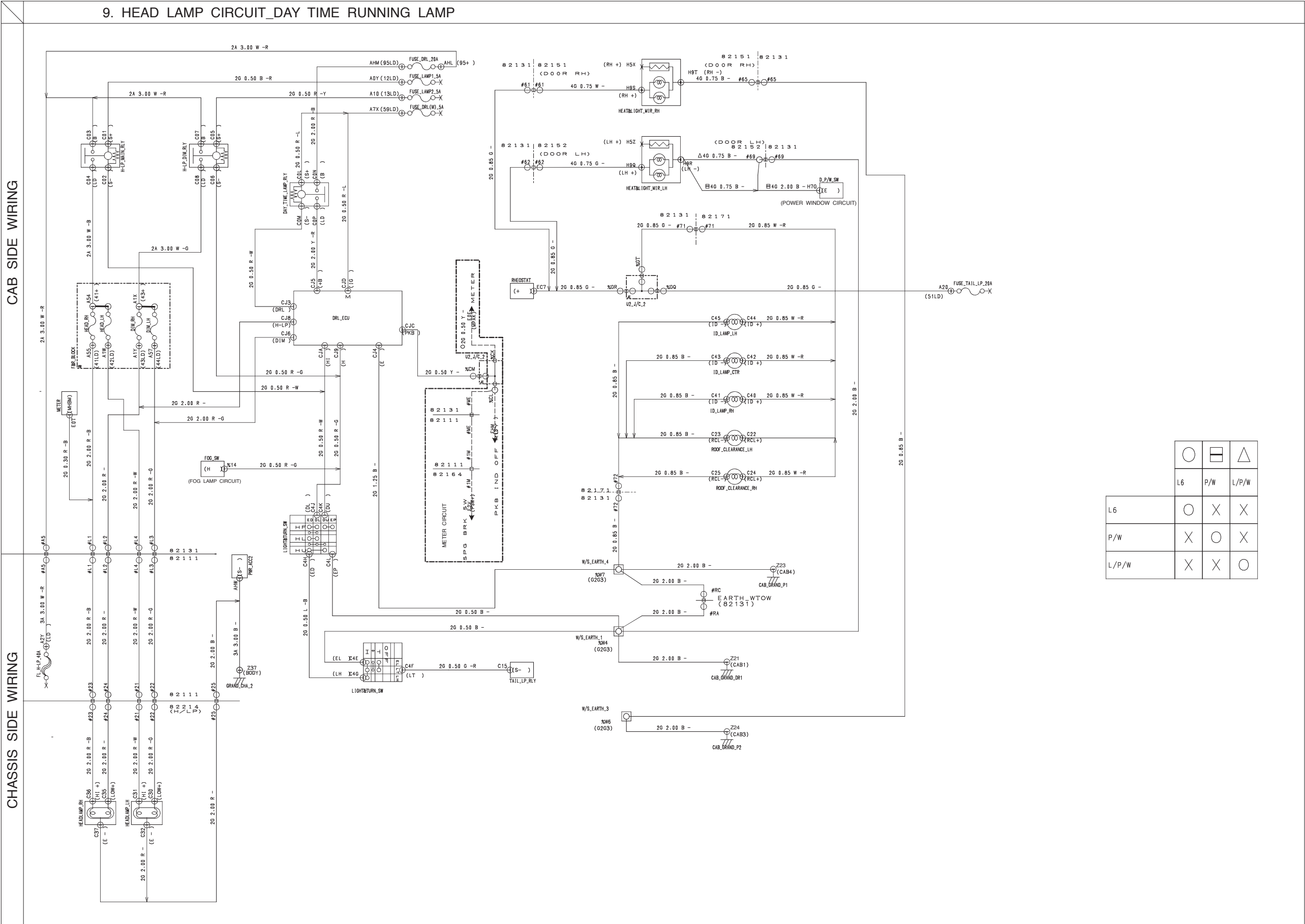


## CAB SIDE WIRING



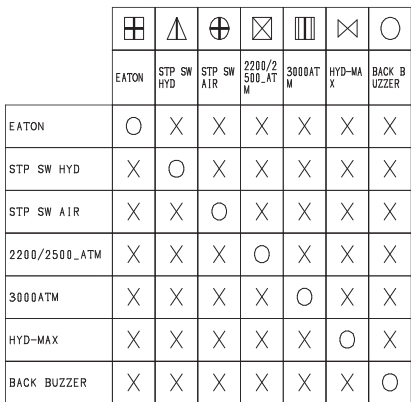






## CAB SIDE WIRING

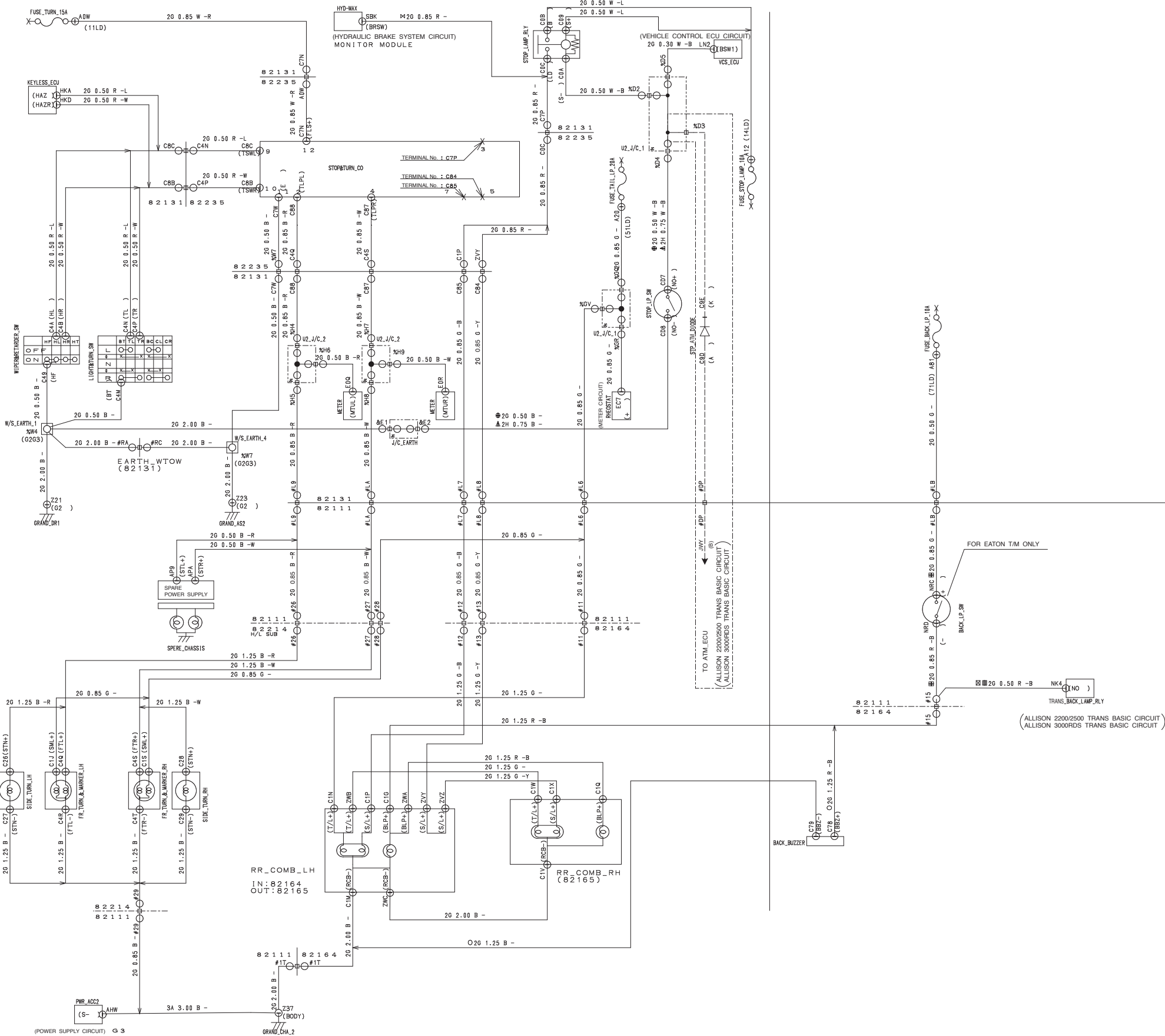
## CHASSIS SIDE WIRING



CAB SIDE WIRING

CHASSIS SIDE WIRING

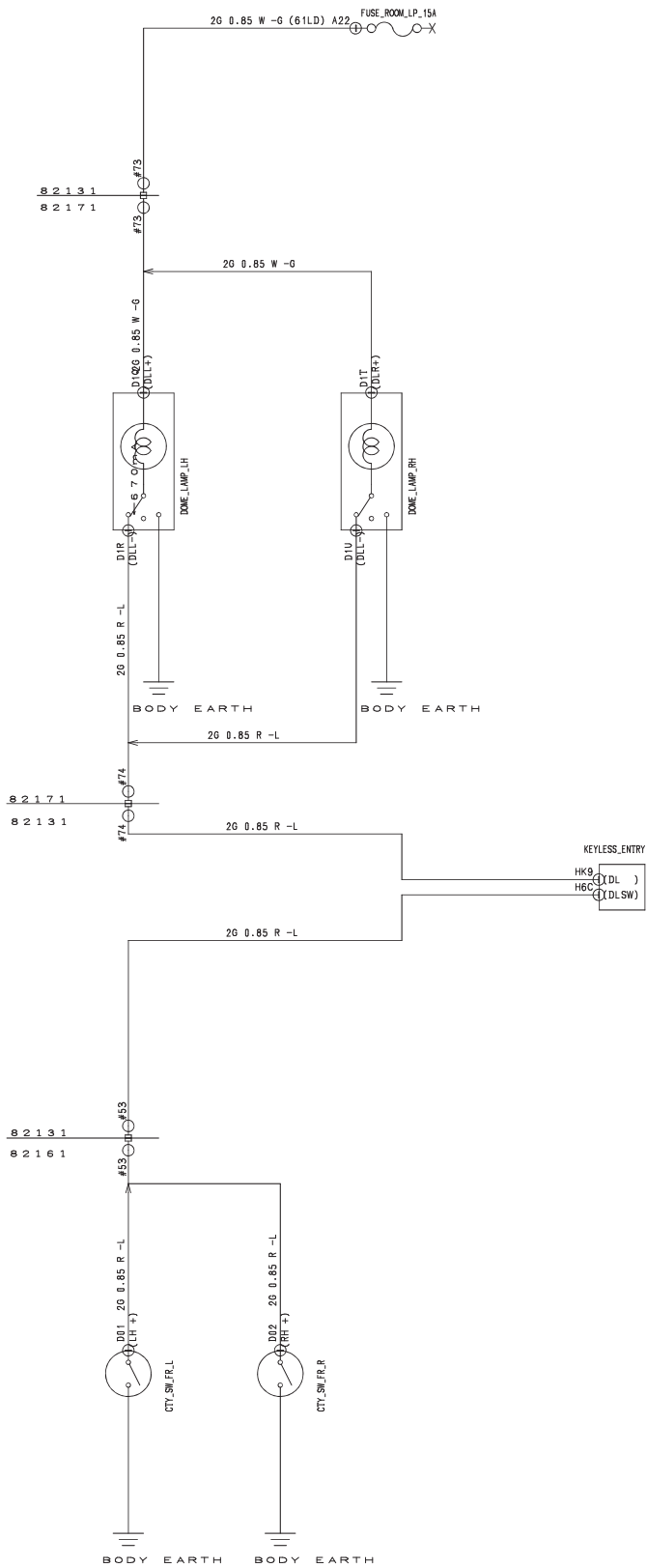
11. STOP LAMP & TURN SIGNAL LAMP CIRCUIT\_OPT FLASHER CUT W/H



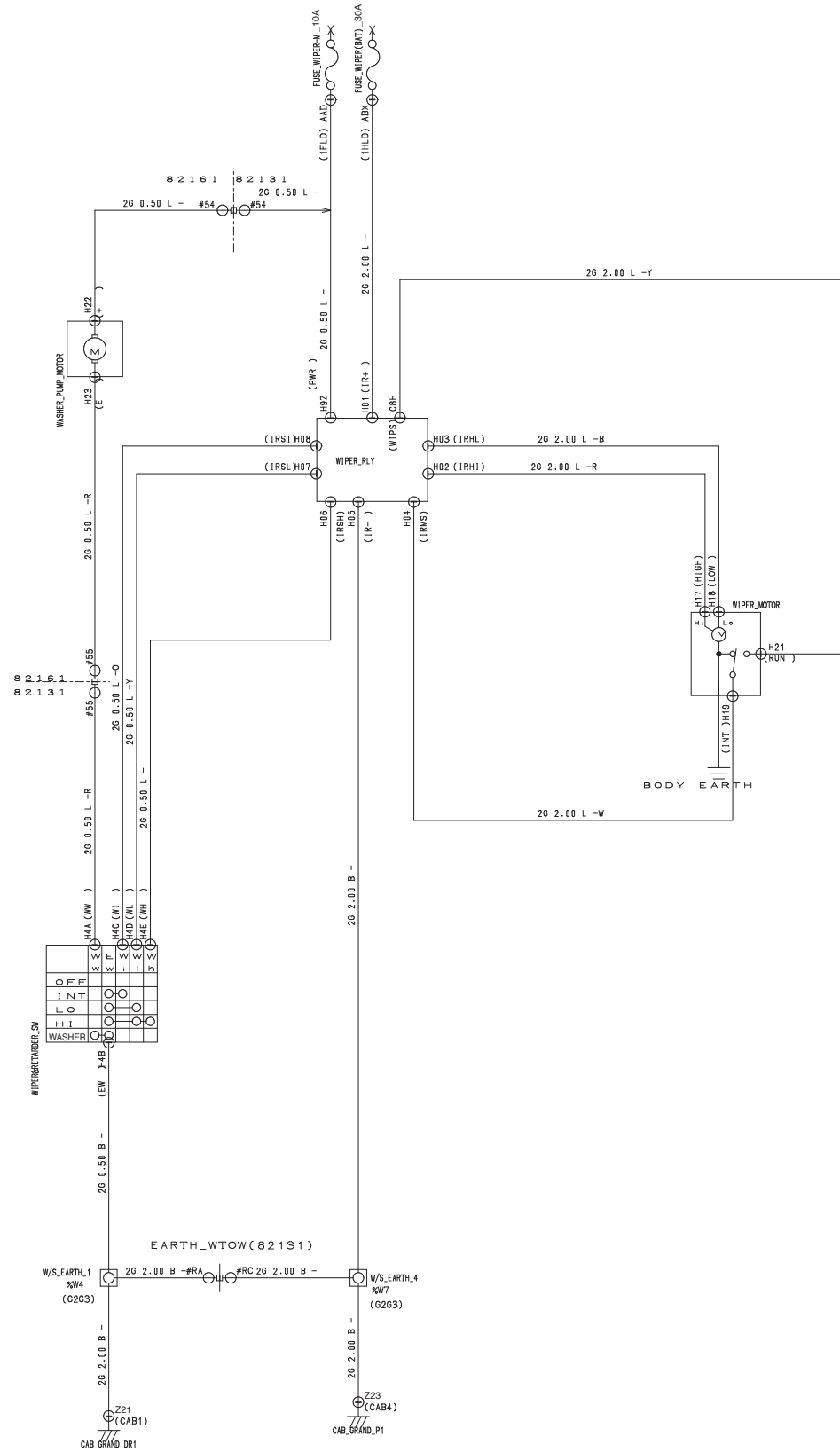
EATON		X	X	X	X	X	X
STP SW HYD	X		X	X	X	X	X
STP SW AIR	X	X		X	X	X	X
2200/2500_ATM	X	X	X		X	X	X
3000ATM	X	X	X	X		X	X
HYD-MAX	X	X	X	X	X		X
BACK BUZZER	X	X	X	X	X	X	

CAB SIDE WIRING

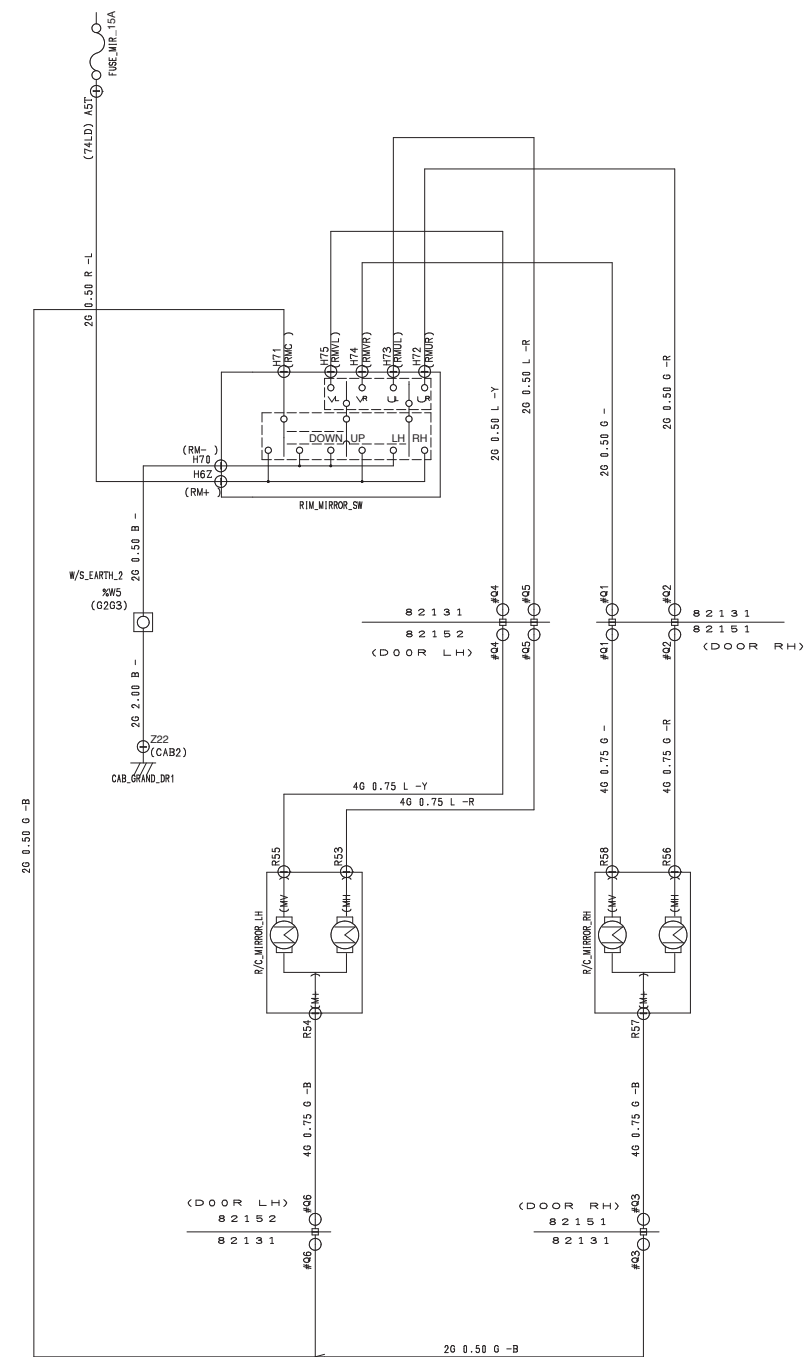
12. ROOM LAMP CIRCUIT



### 13. WIPER & WASHER CIRCUIT

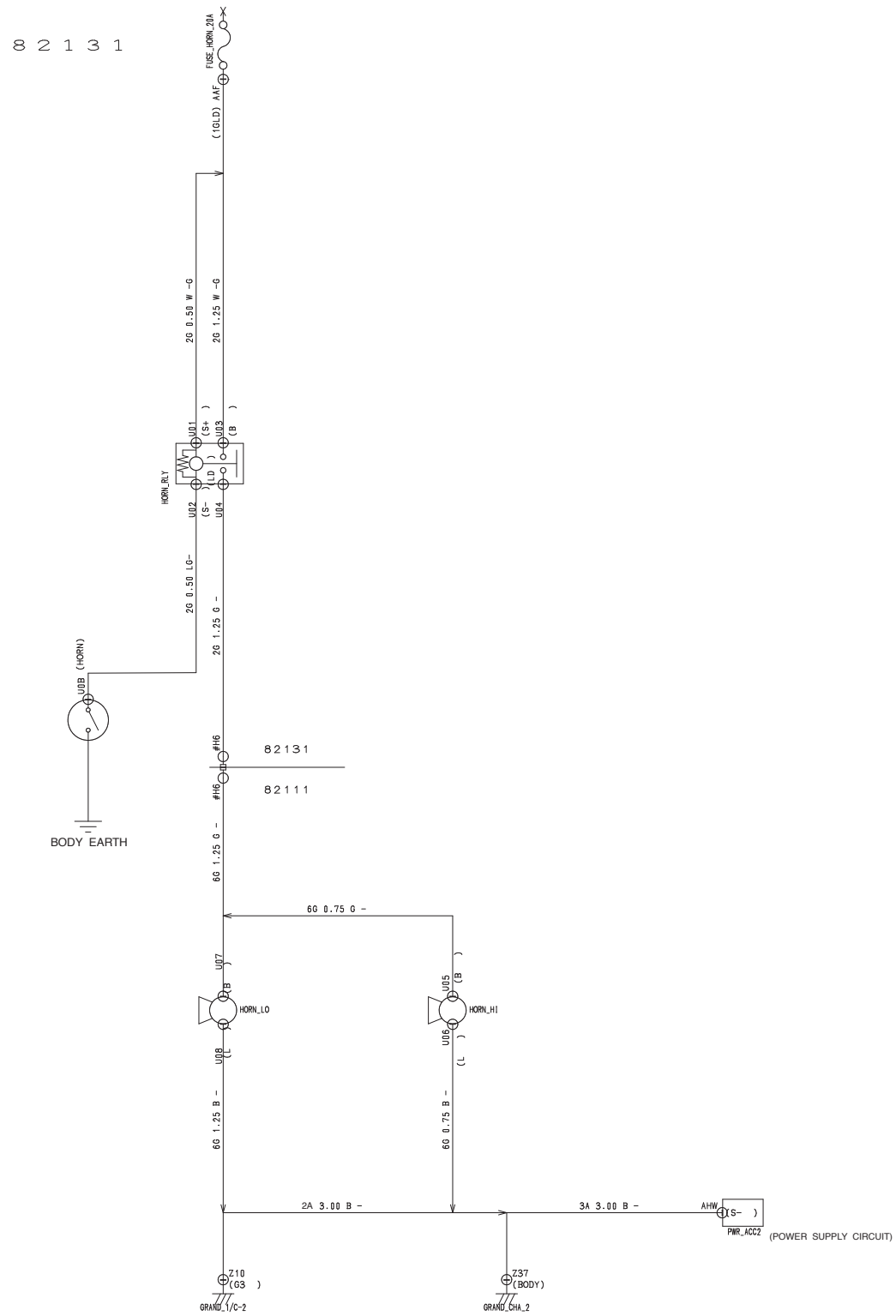


## REMOTE CONTROL MIRROR CIRCUIT



## 15. ELECTRICAL HORN CIRCUIT

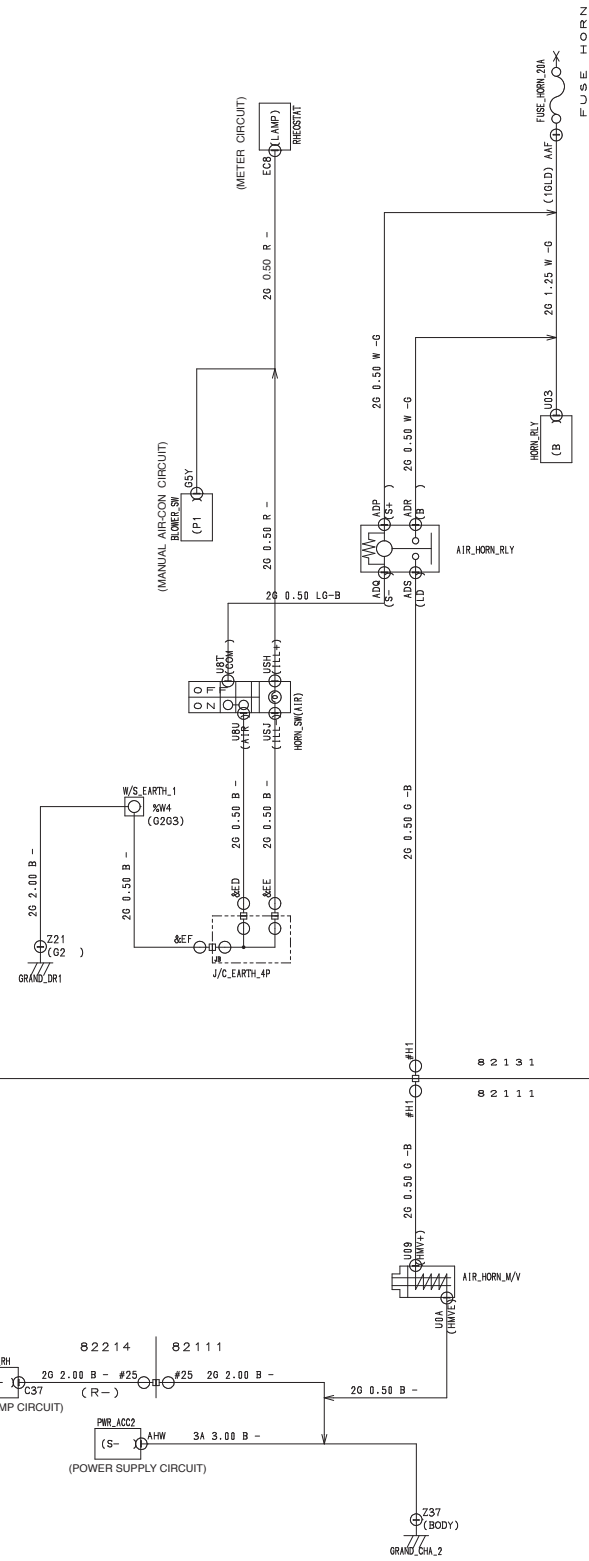
CAB SIDE WIRING



## 16. AIR HORN CIRCUIT

## CAB SIDE WIRING

## CHASSIS SIDE WIRING

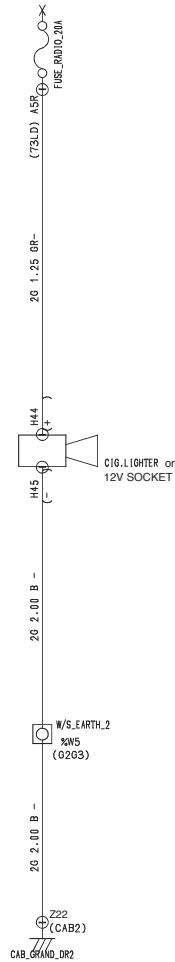




CAB SIDE WIRING

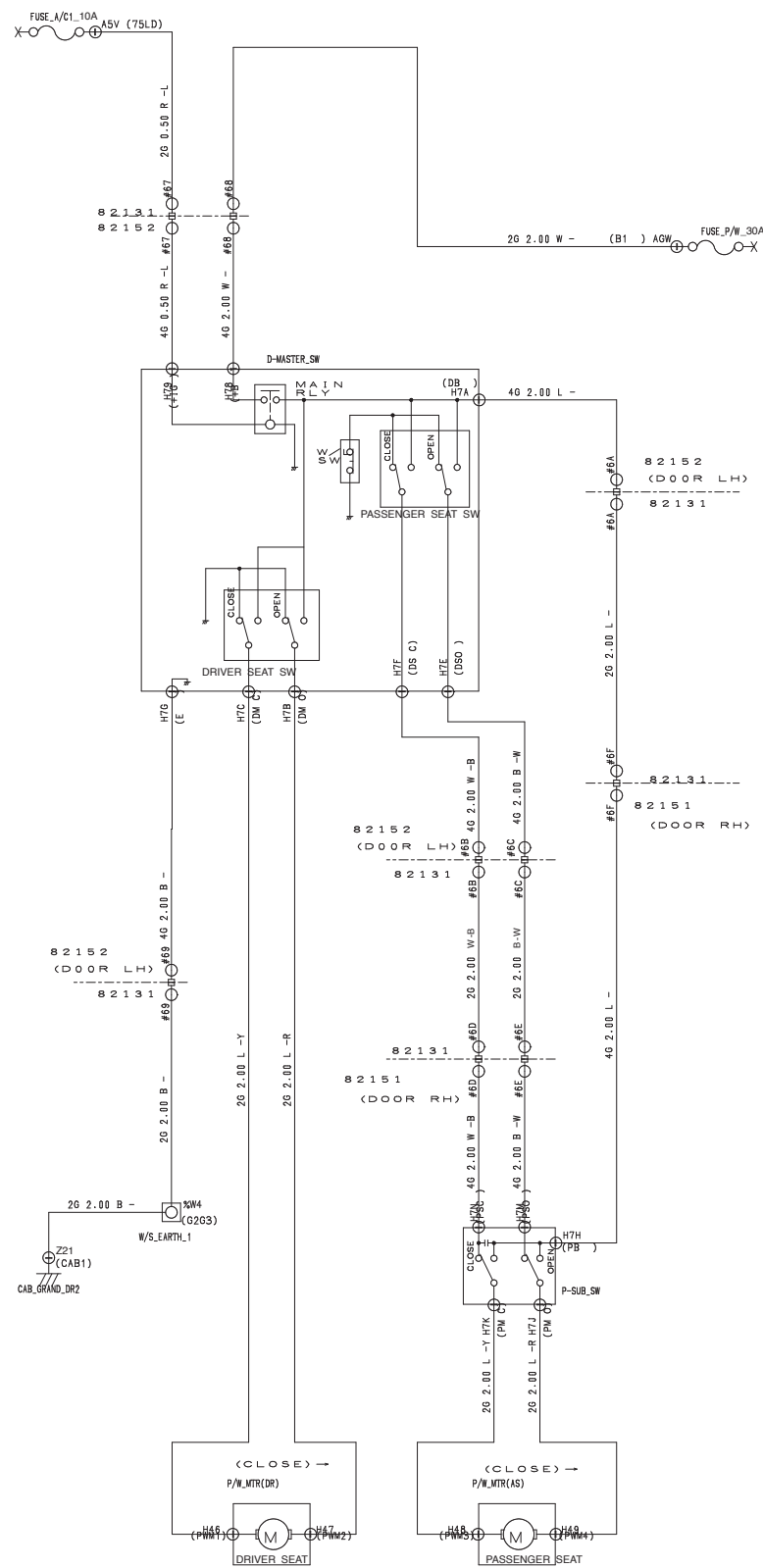
17. CIGARETTE LIGHTER & ACC. SOCKET CIRCUIT

8 2 1 3 1

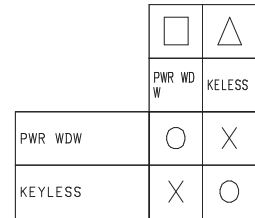


CAB SIDE WIRING

18. POWER WINDOW CIRCUIT

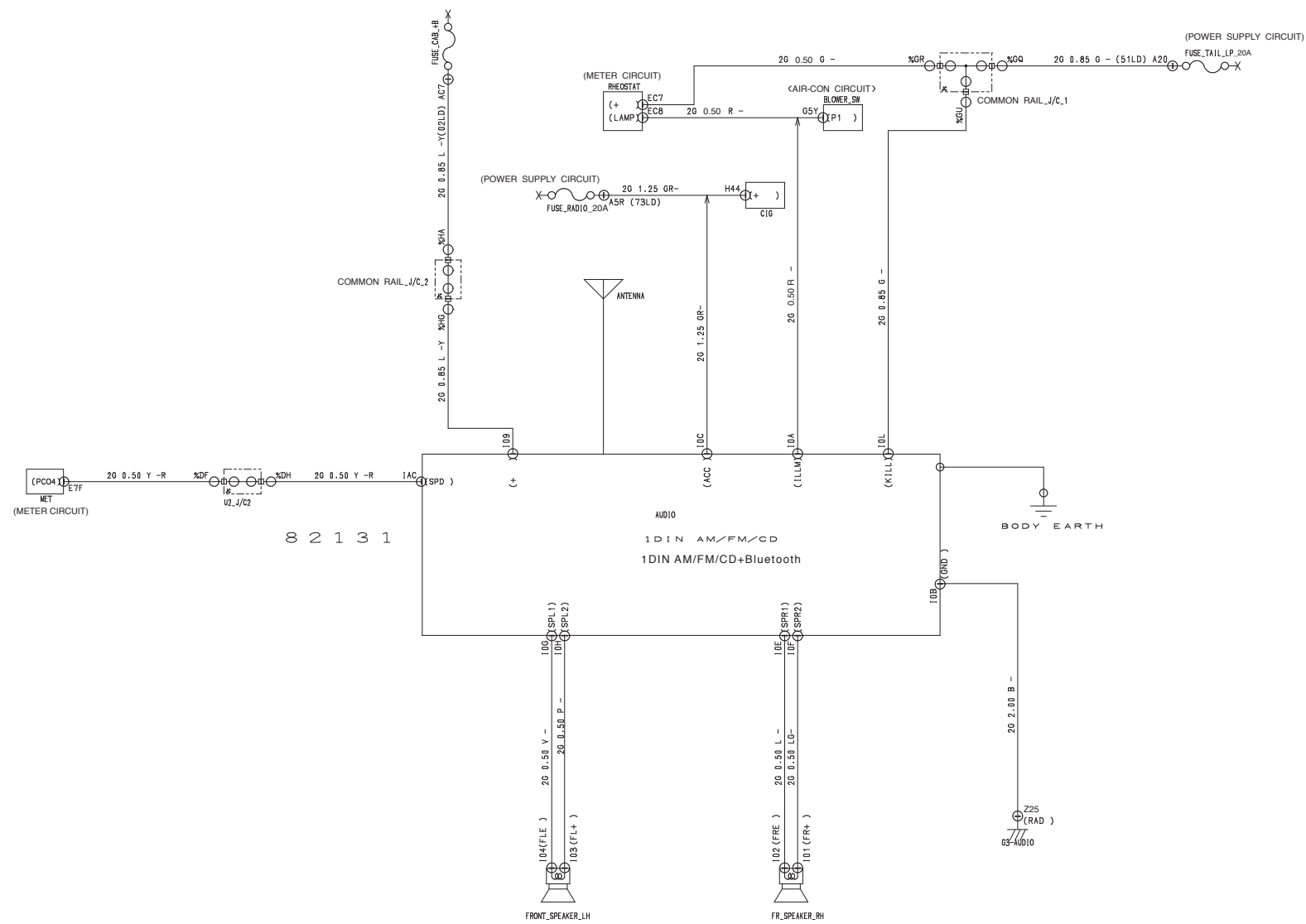


## CAB SIDE WIRING

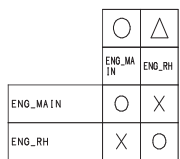


20. AUDIO CIRCUIT

CAB SIDE WIRING



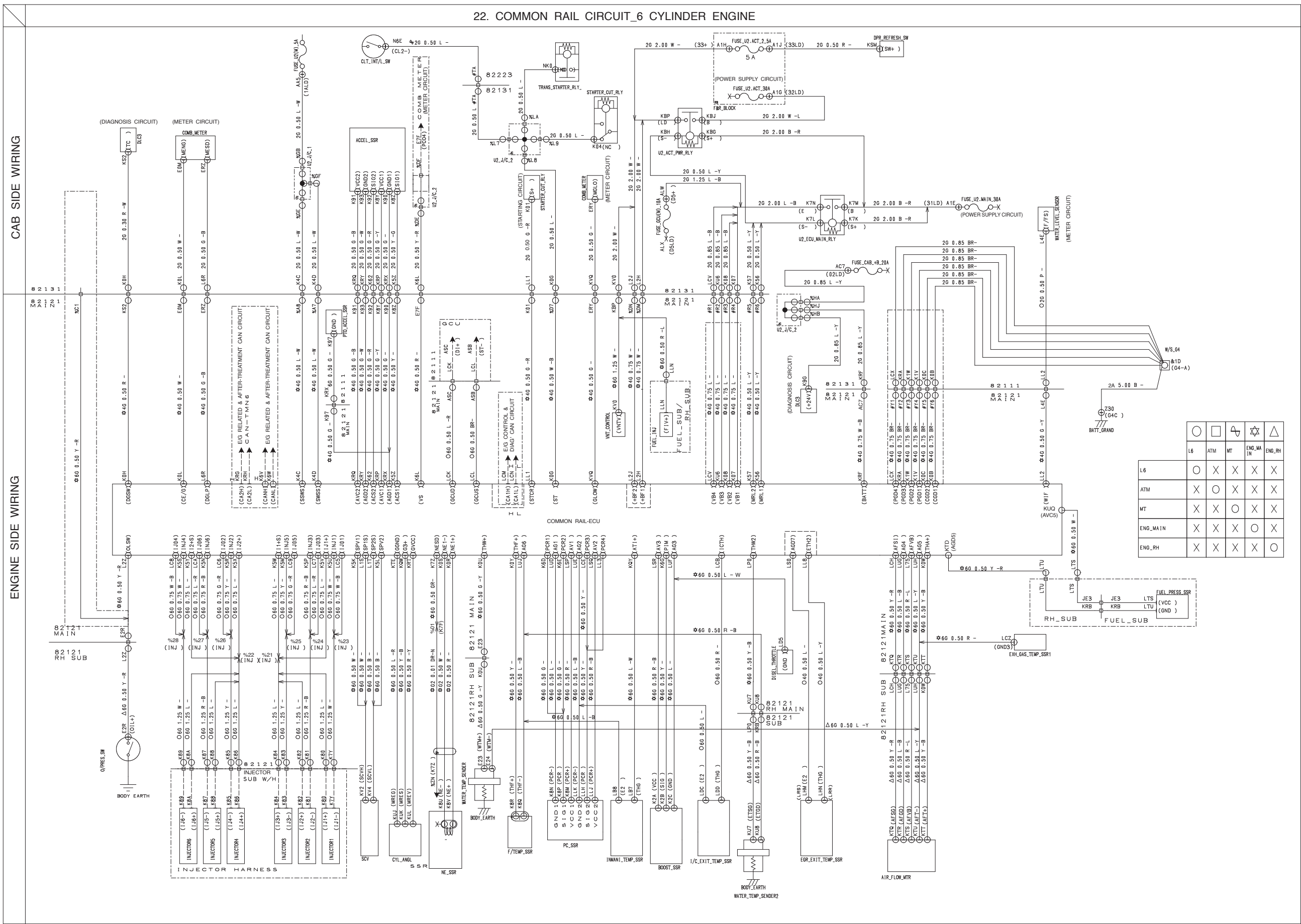
## CAB SIDE WIRING

































## 22. COMMON RAIL CIRCUIT\_6 CYLINDER ENGINE

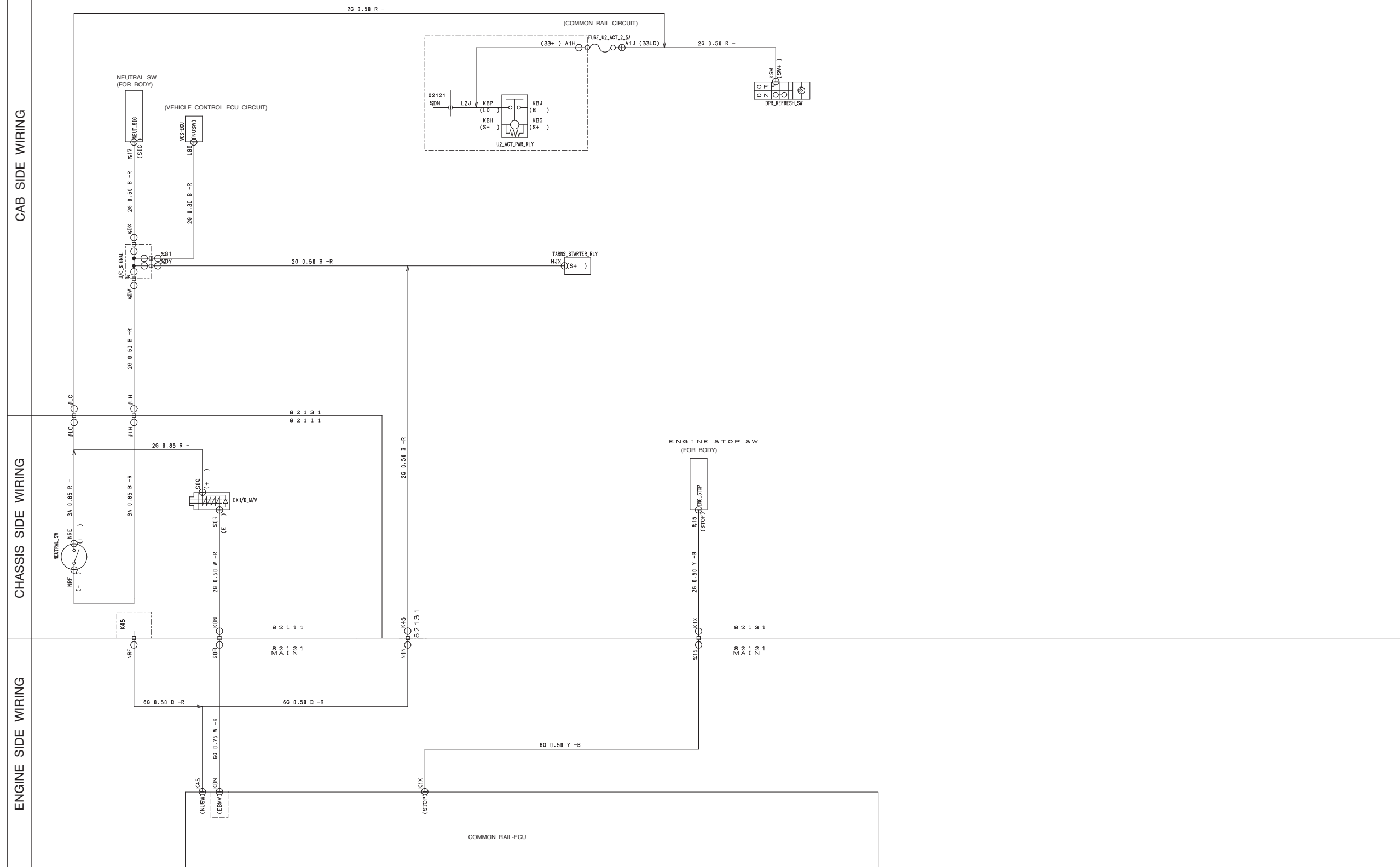
CAB SIDE WIRING

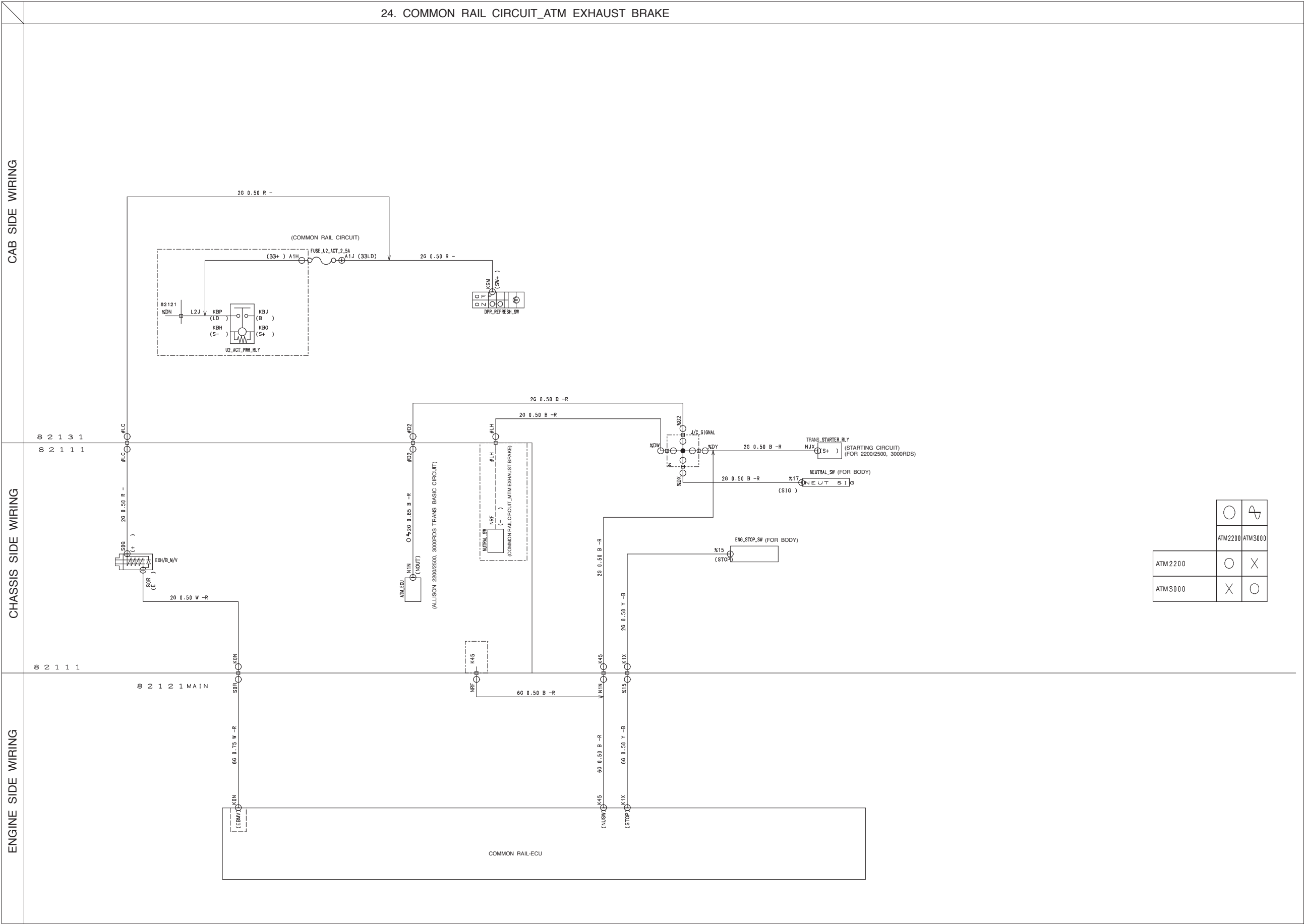
## ENGINE SIDE WIRING



					
	L6	ATM	MT	ENG_MAIN	ENG_RH
L6					
ATM					
MT					
ENG_MAIN					
ENG_RH					

### 23. COMMON RAIL CIRCUIT\_MTM EXHAUST BRAKE



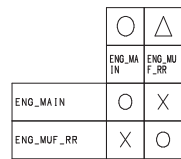




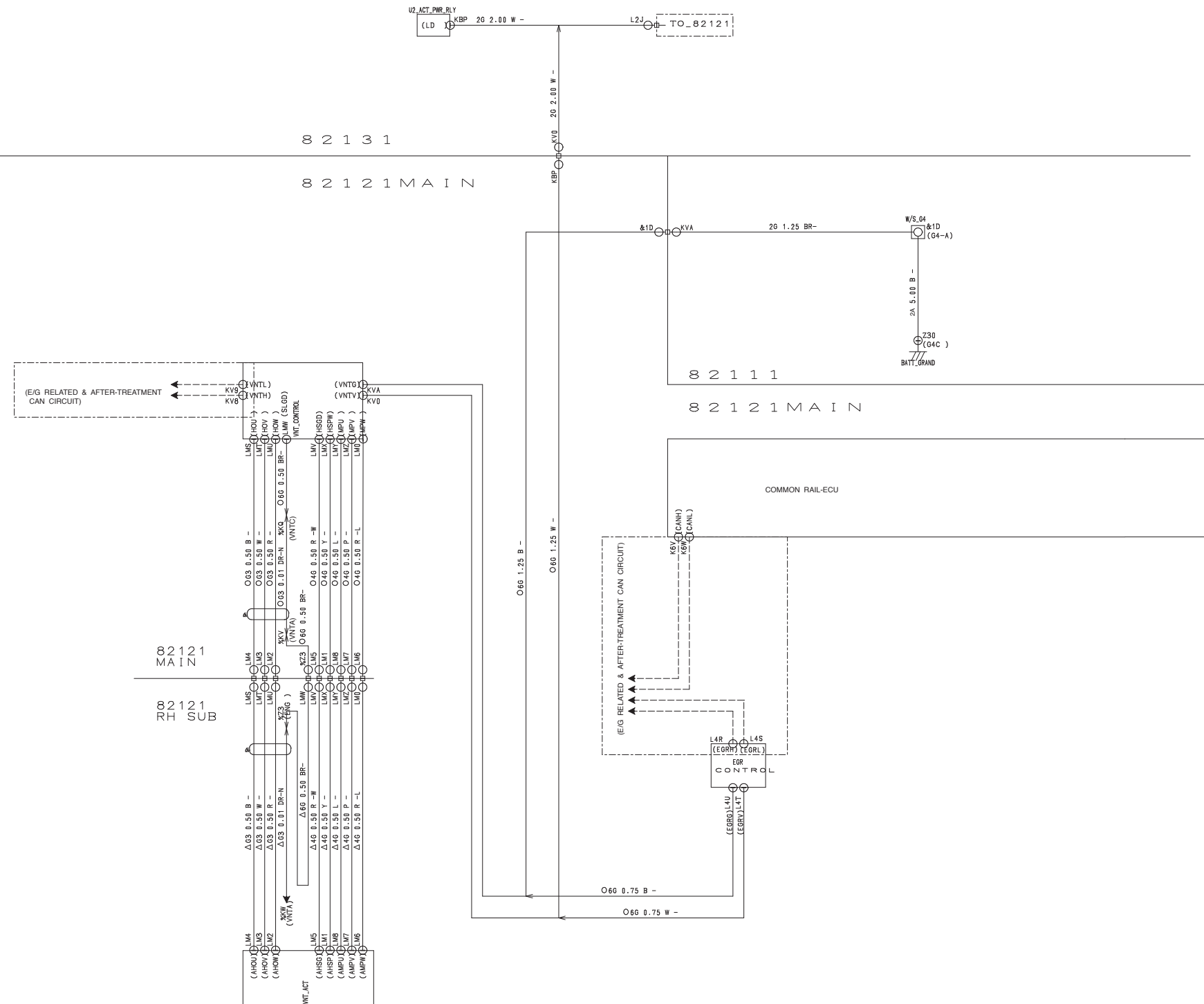
## CAB SIDE WIRING







## CHASSIS SIDE WIRING

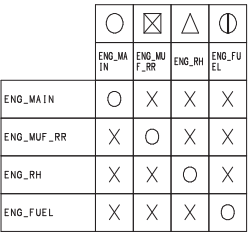
## ENGINE SIDE WIRING



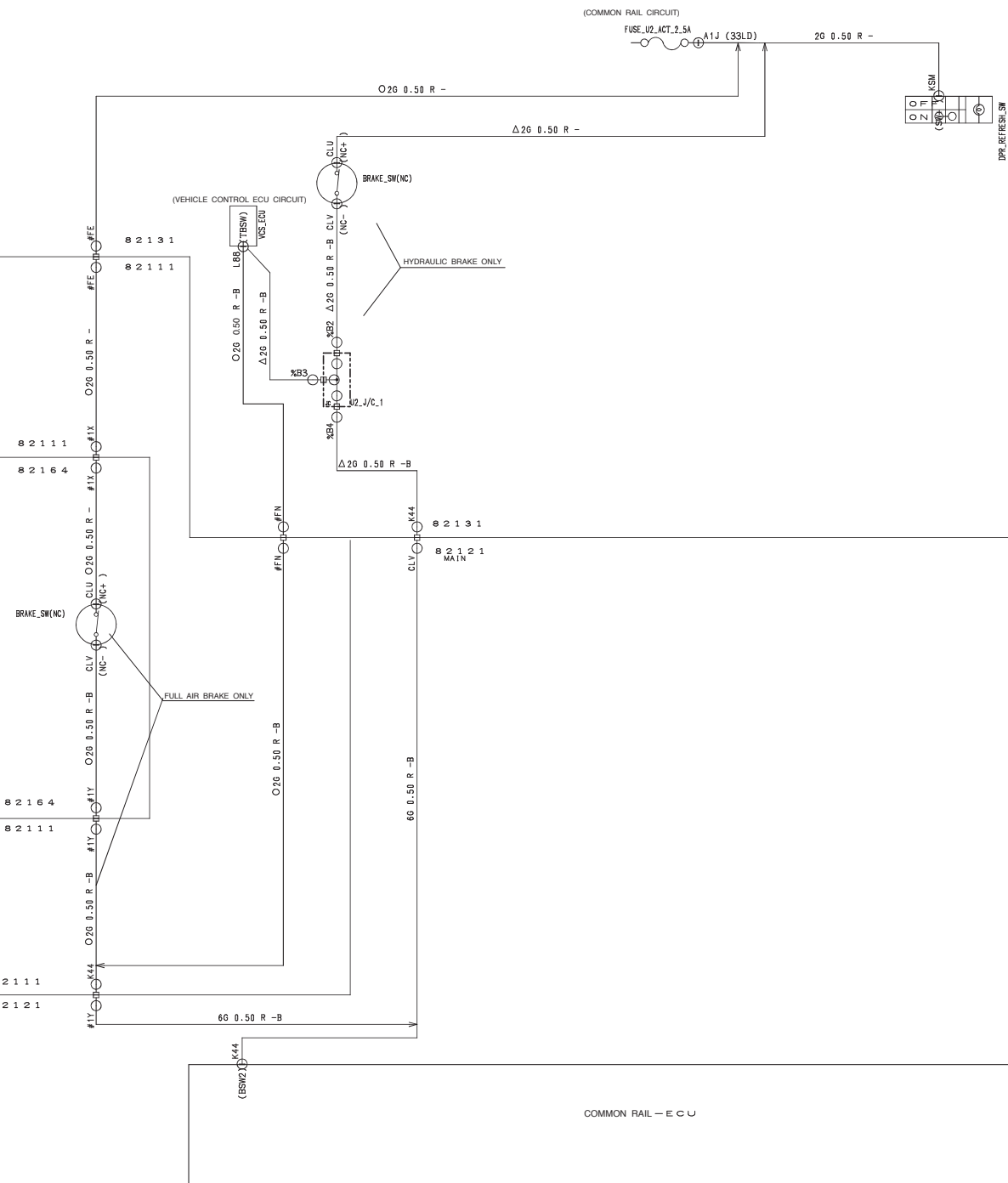
## 26. COMMON RAIL CIRCUIT\_EGR, VGT & D-THROTTEL







		
	ENG_MAIN	ENG_RH
ENG_MAIN		
ENG_RH		



## 28. COMMON RAIL CIRCUIT\_FS CURSE



			
	F/A		HYD
F/A			X
HYD		X	

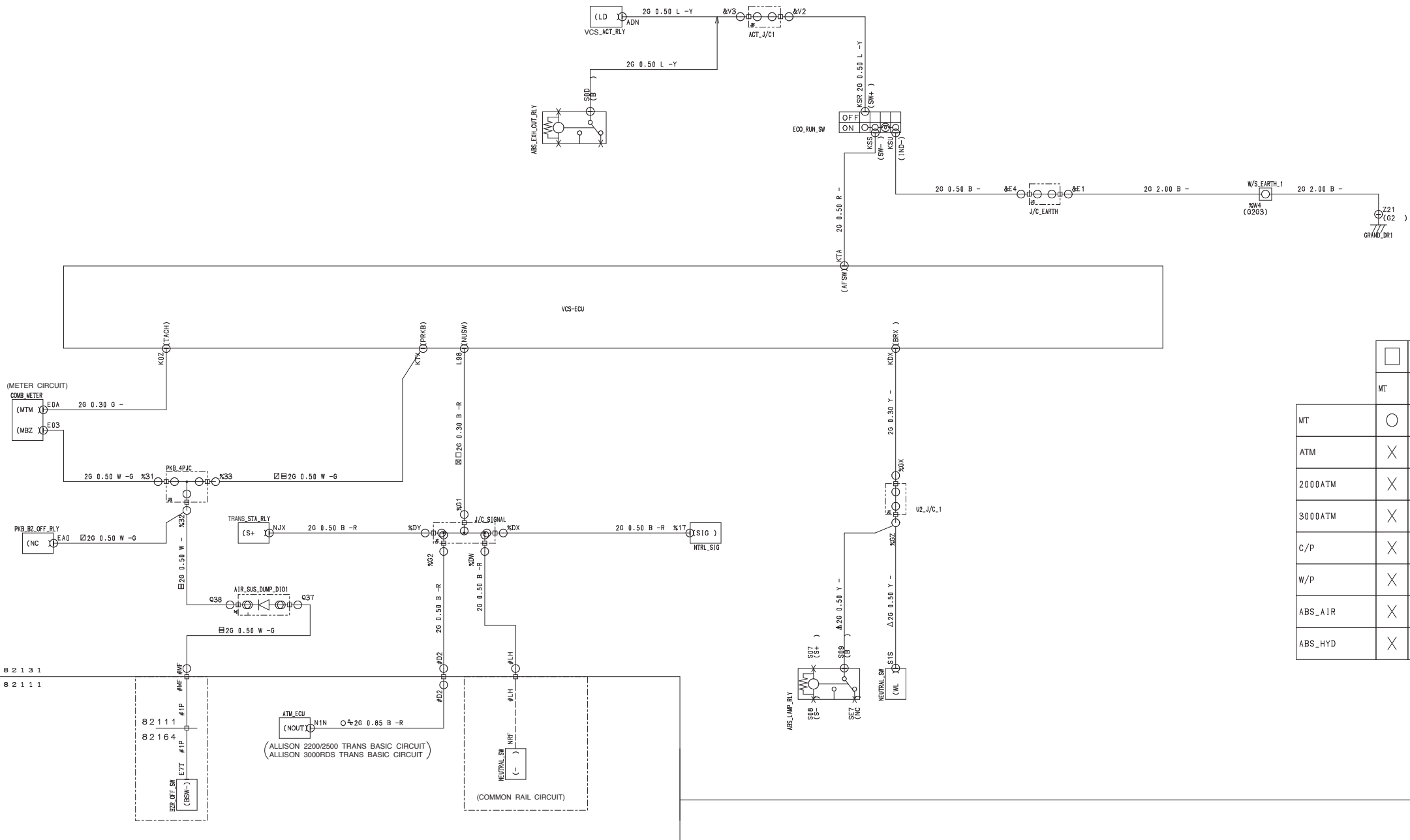


CAB SIDE WIRING

CHASSIS SIDE WIRING

ENGINE SIDE WIRING

30. VEHICLE CONTROL ECU CIRCUIT\_2

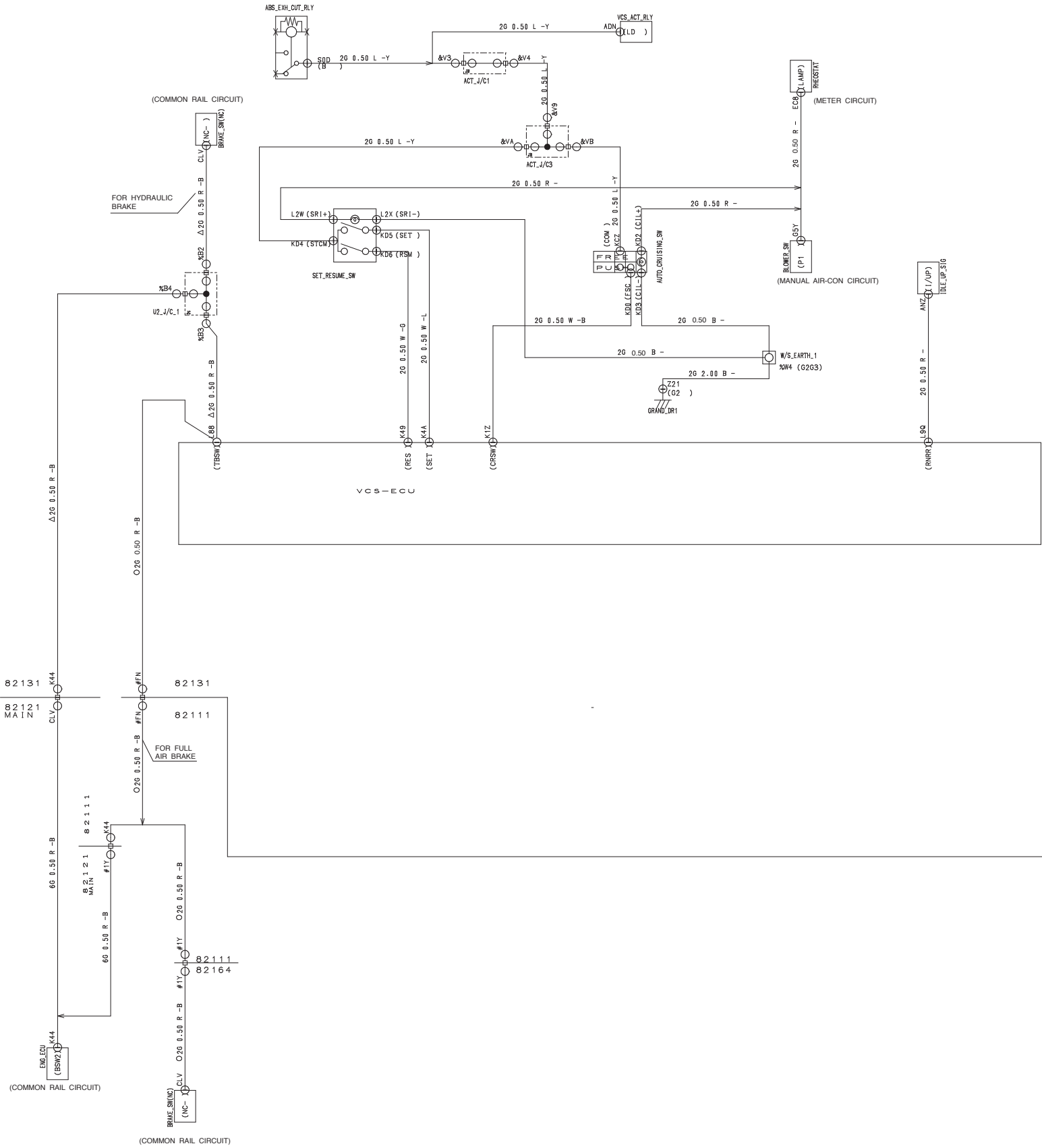








	MT	ATM	2000ATM	3000ATM	C/P	W/P	ABS_AIR	ABS_HYD
MT		X	X	X	X	X	X	X
ATM	X		X	X	X	X	X	X
2000ATM	X	X		X	X	X	X	X
3000ATM	X	X	X		X	X	X	X
C/P	X	X	X	X		X	X	X
W/P	X	X	X	X	X		X	X
ABS_AIR	X	X	X	X	X	X		X
ABS_HYD	X	X	X	X	X	X	X	

CAB SIDE WIRING

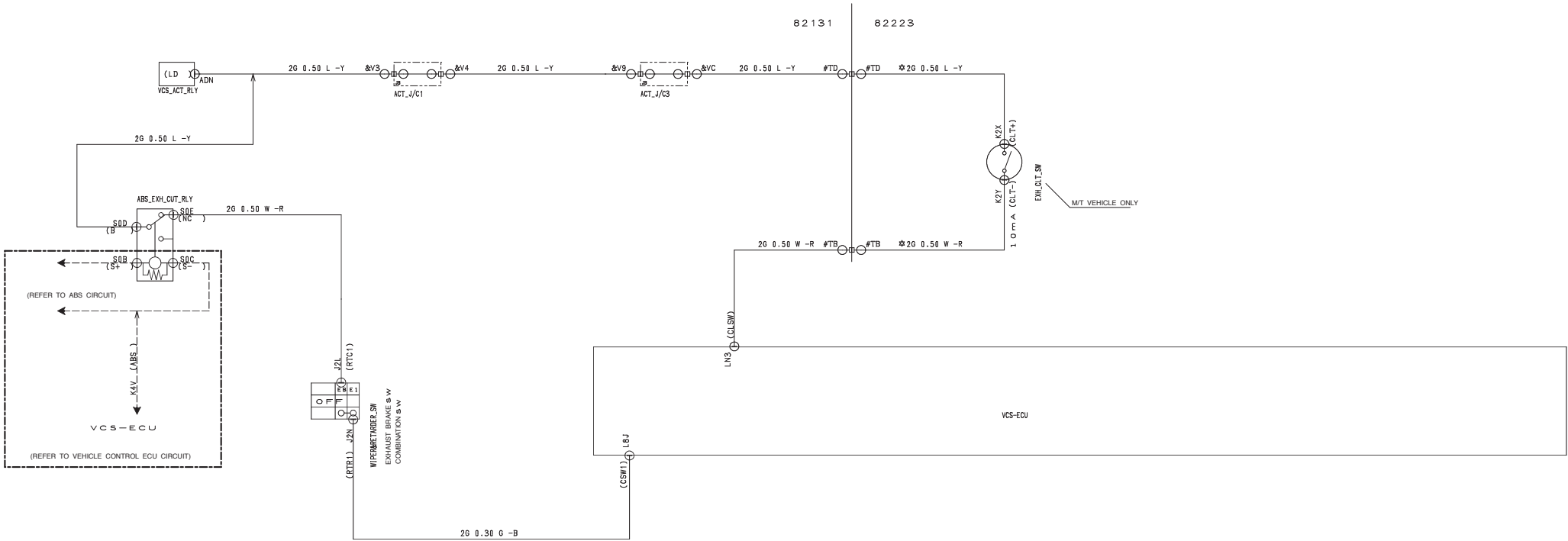
CHASSIS SIDE WIRING

31. VEHICLE CONTROL ECU CIRCUIT\_3





		
	AIR	HYD
AIR		
HYD		

### 32. VEHICLE CONTROL ECU CIRCUIT\_4 (EXHAUST BRAKE)

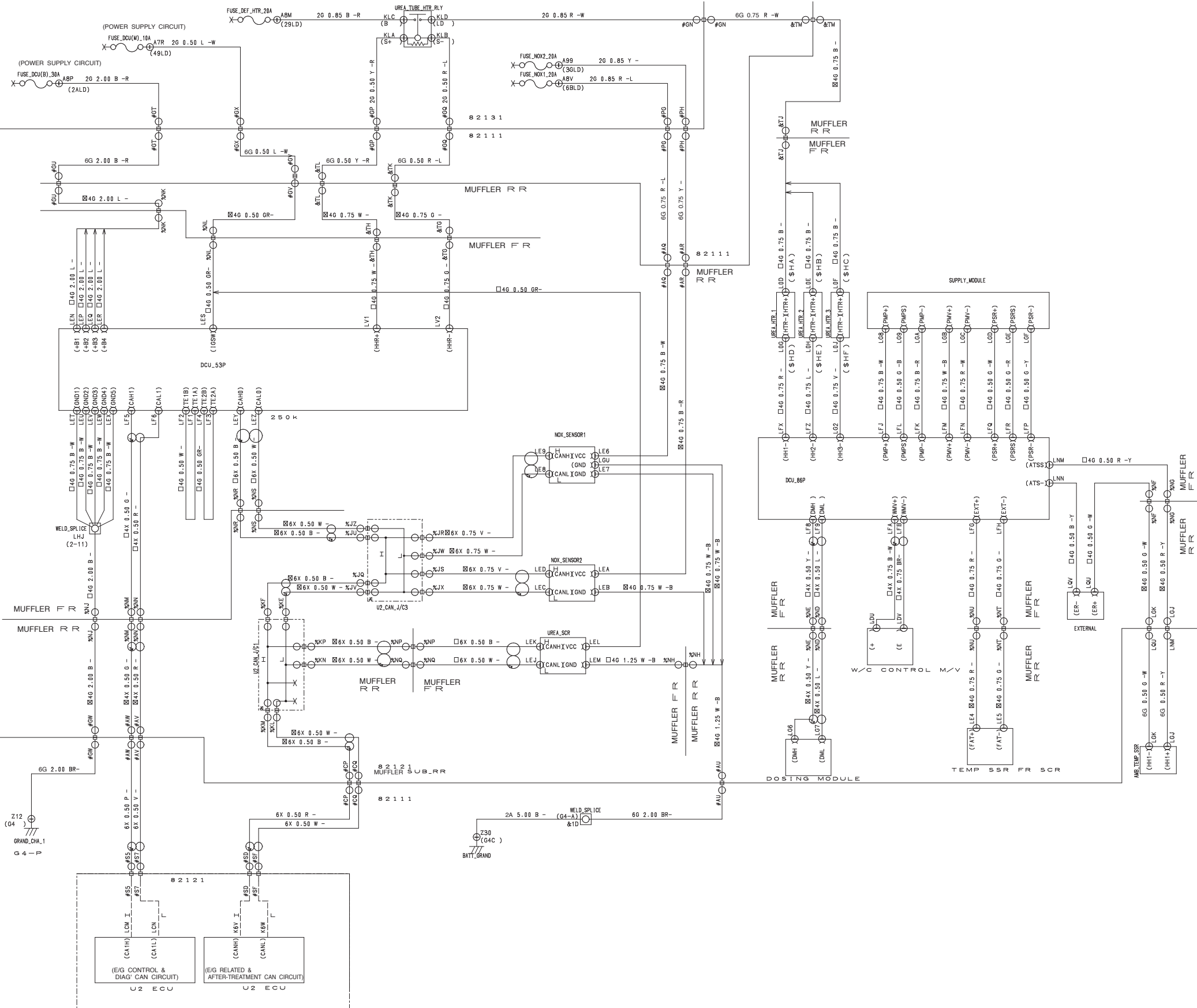








8 2 1 3 1

	 MT
MT	

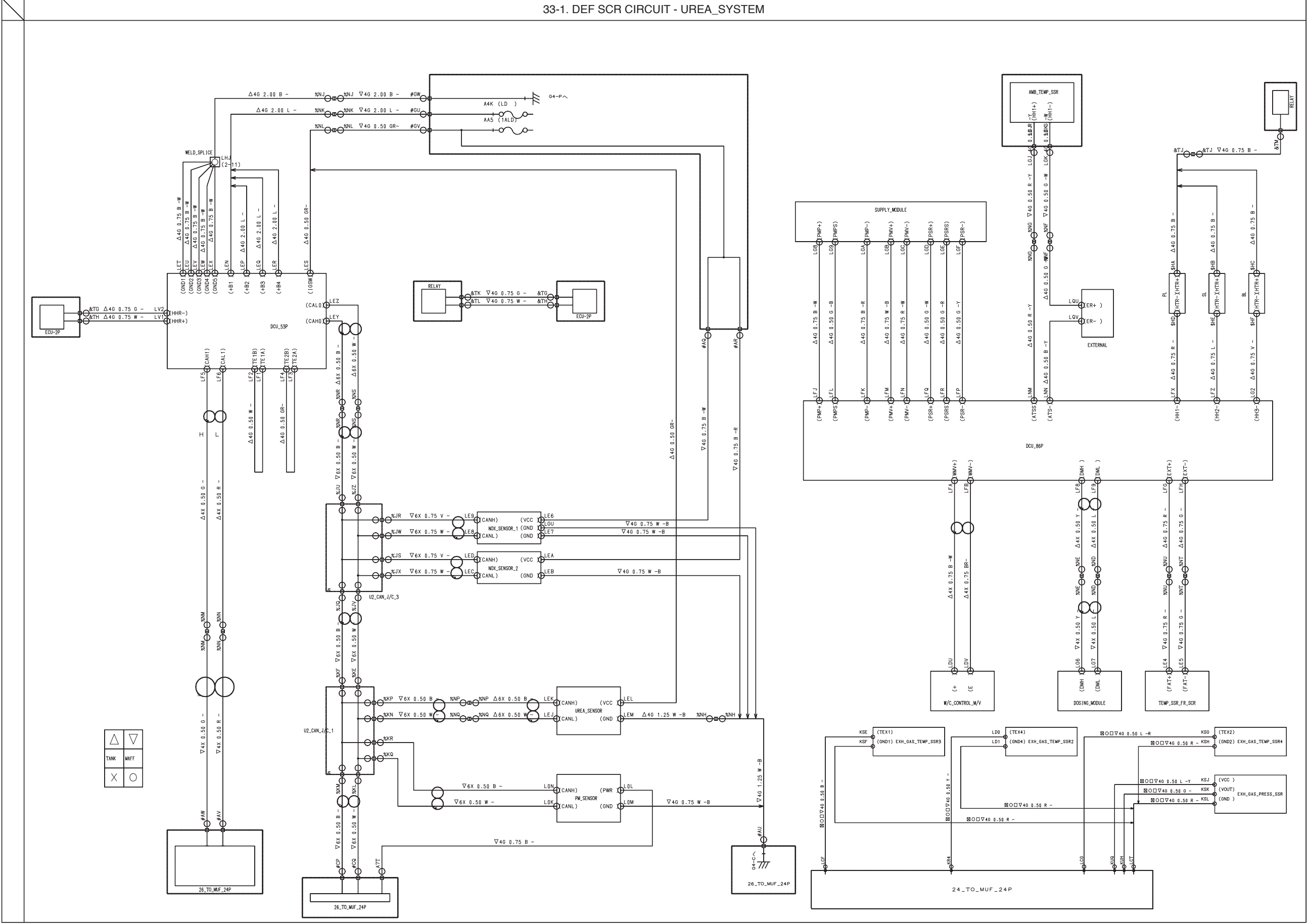


### 33. DEF SCR CIRCUIT



		
	ENG_MU F_FR	ENG_MU F_RR
ENG_MUF_FR		
ENG_MUF_RR		

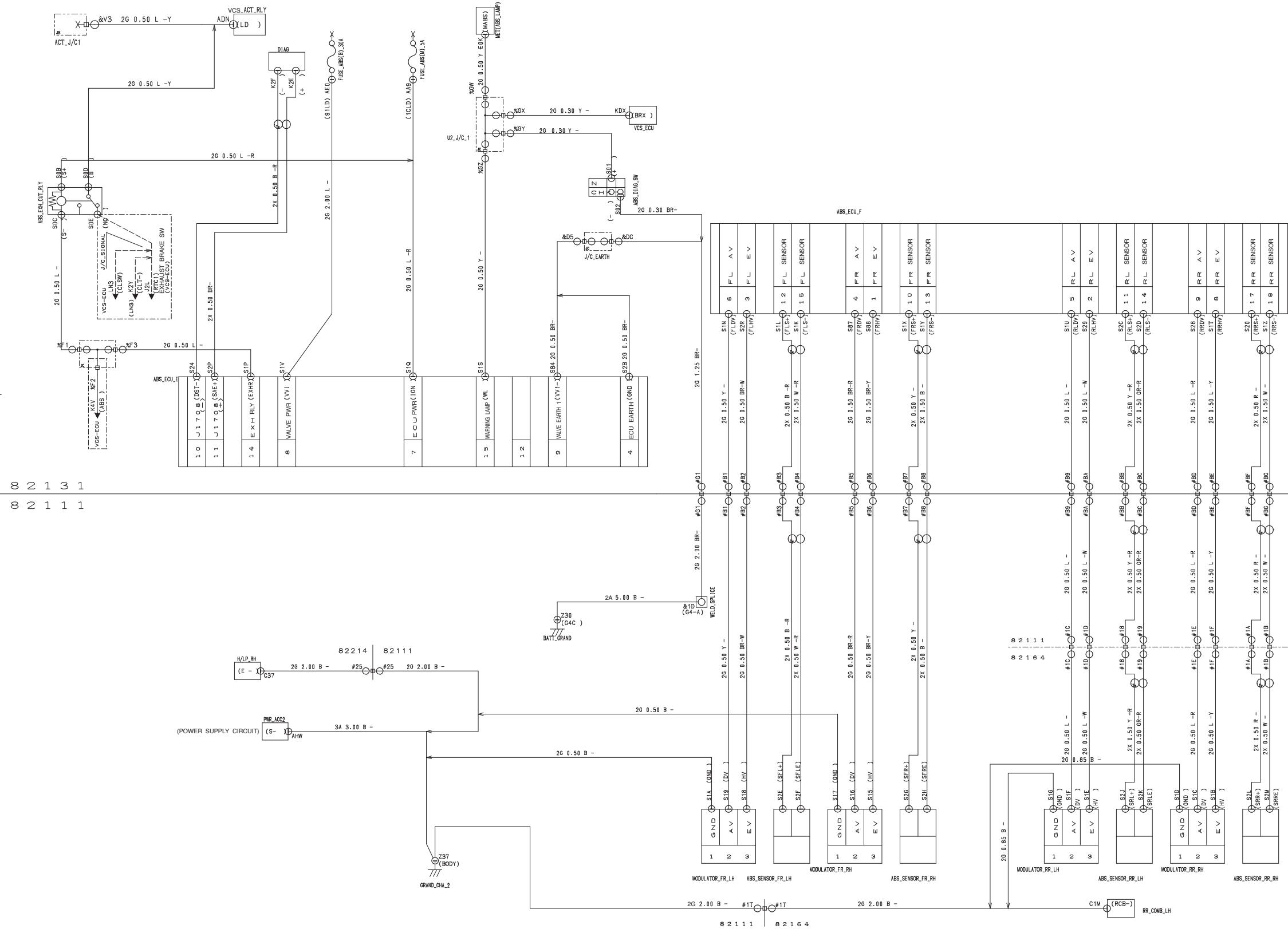
33-1. DEF SCR CIRCUIT - UREA\_SYSTEM



## CAB SIDE WIRING

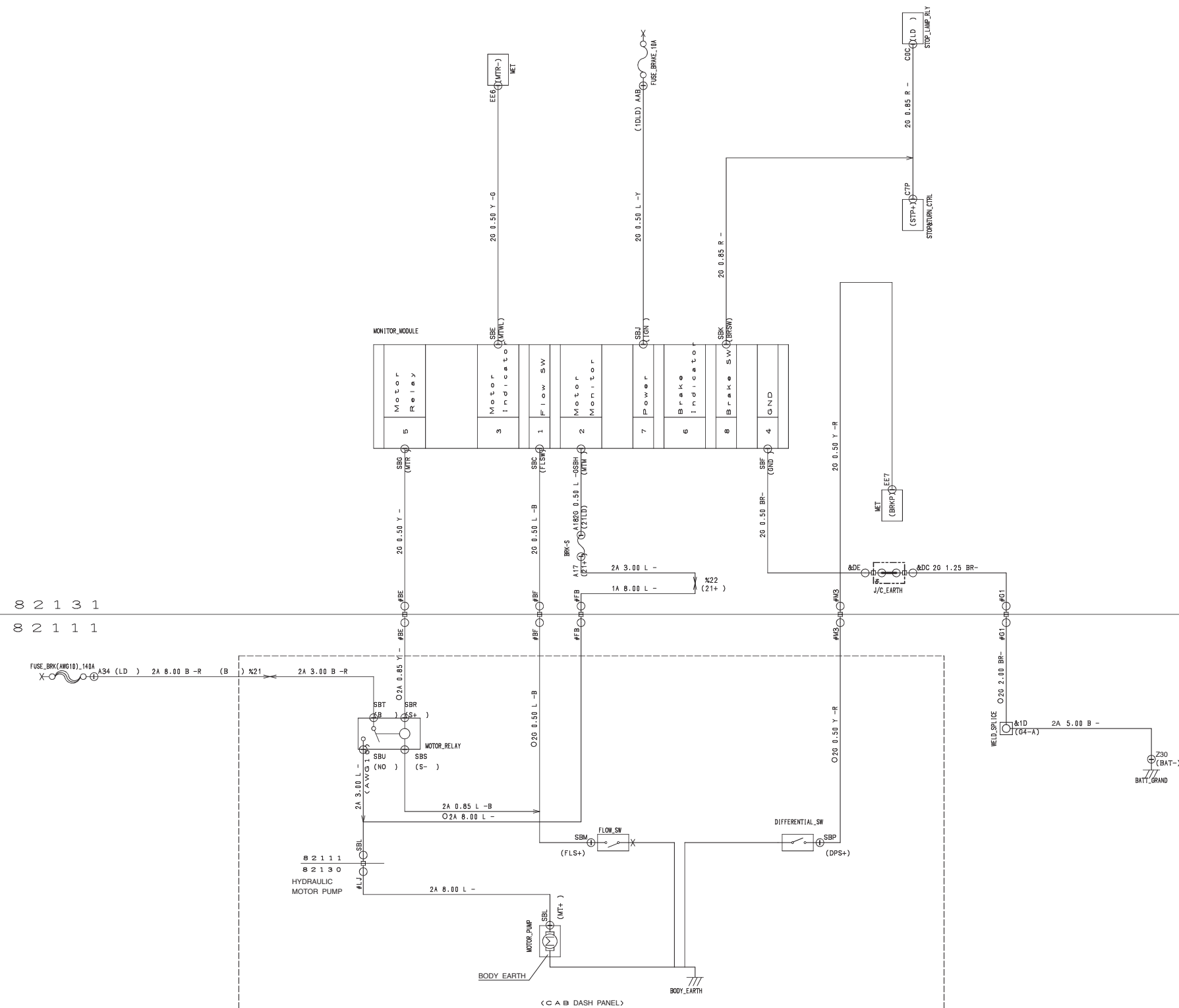
## CHASSIS SIDE WIRING



### 34. ABS CIRCUIT\_FULL AIR BRAKE





### 36. HYDRAULIC BRAKE SYSTEM CIRCUIT

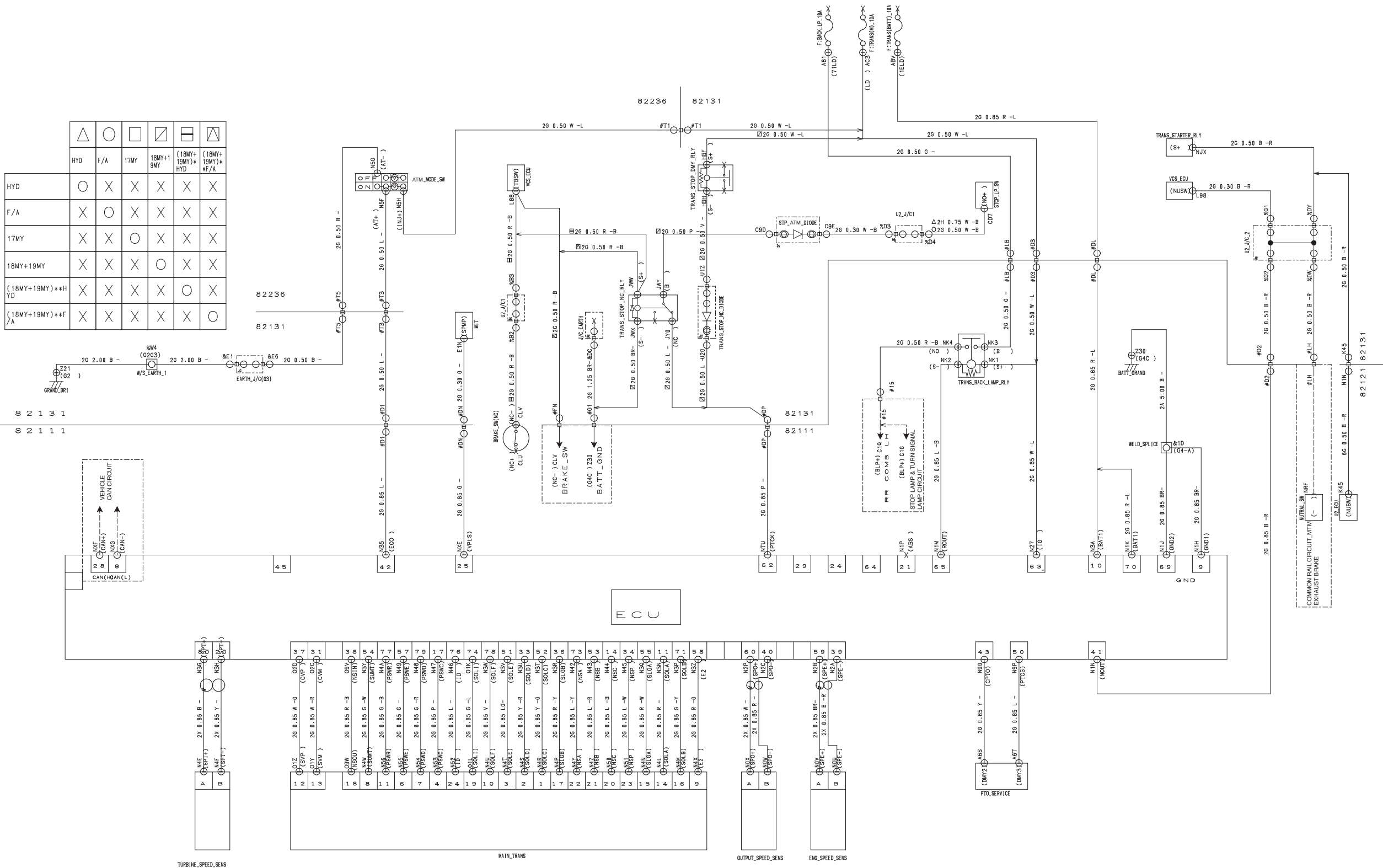


	
	HYD-MAX X*L6
HYD-MAX*L6	

CAB SIDE WIRING

CHASSIS SIDE WIRING

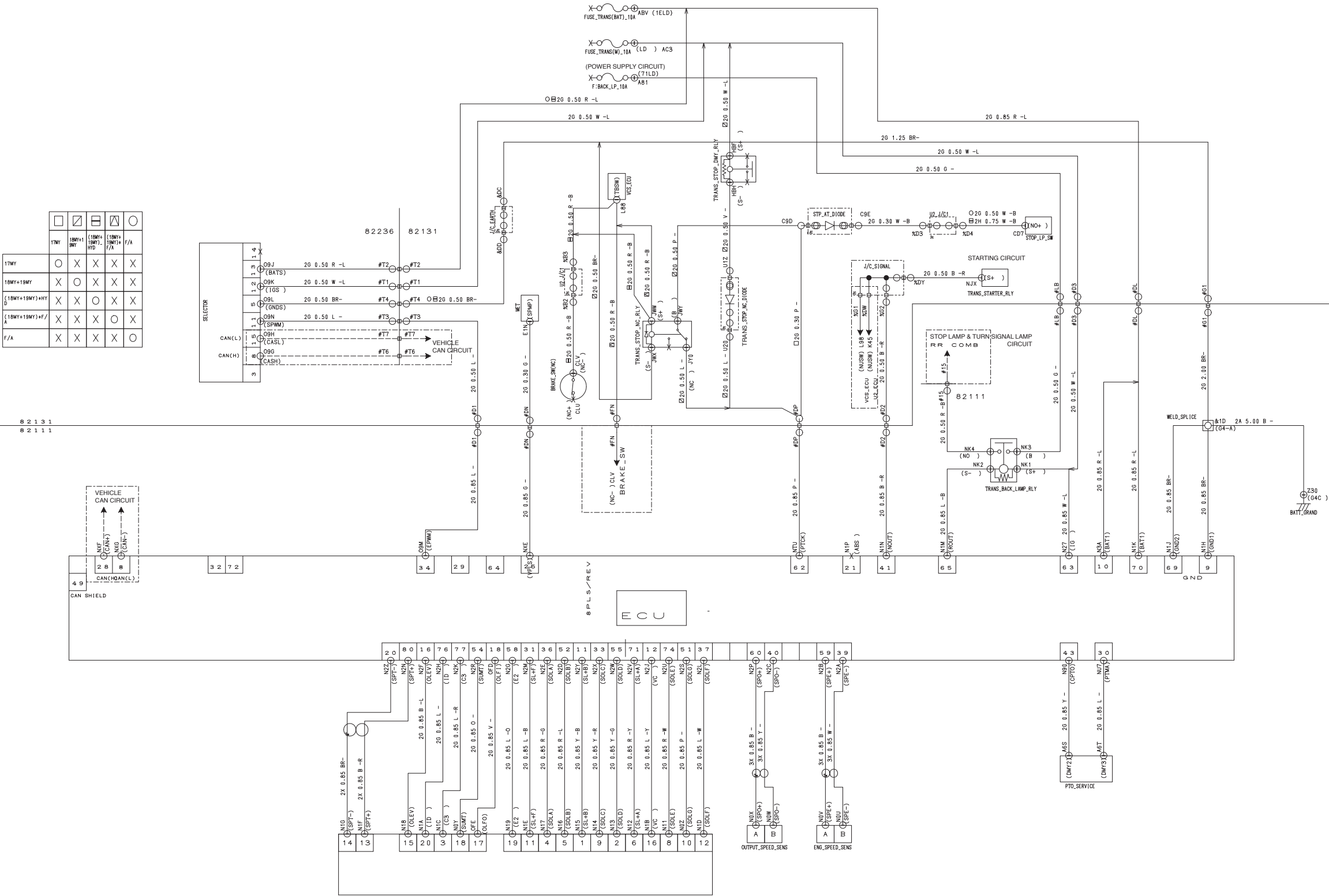
37. ALLISON 2200/2500 TRANS BASIC CIRCUIT



38. ALLISON 3000RDS TRANS BASIC CIRCUIT

CAB SIDE WIRING

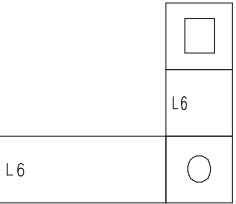
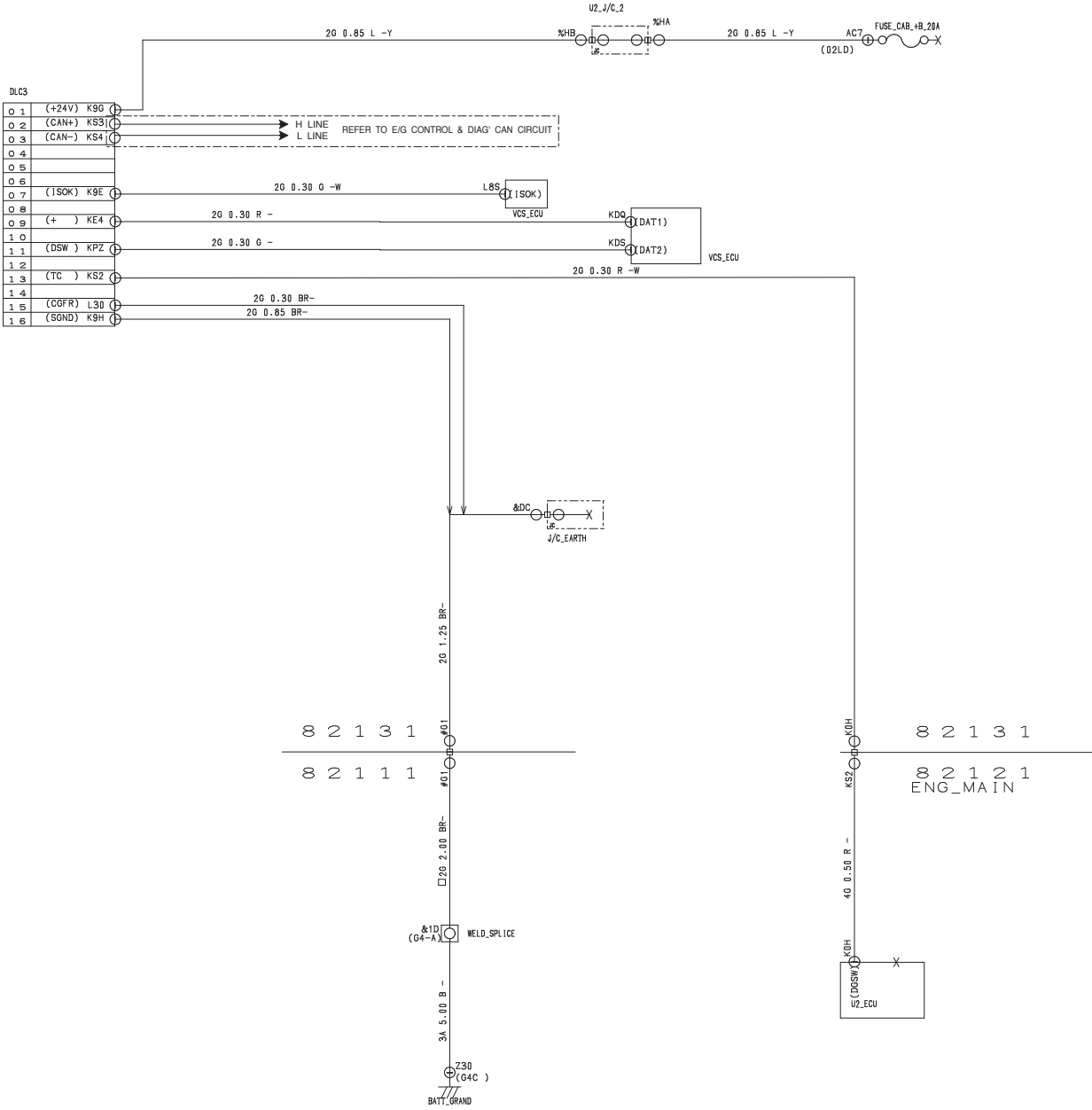
CHASSIS SIDE WIRING



CAB SIDE WIRING

CHASSIS SIDE WIRING

39. DIAGNOSIS CIRCUIT

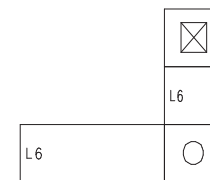
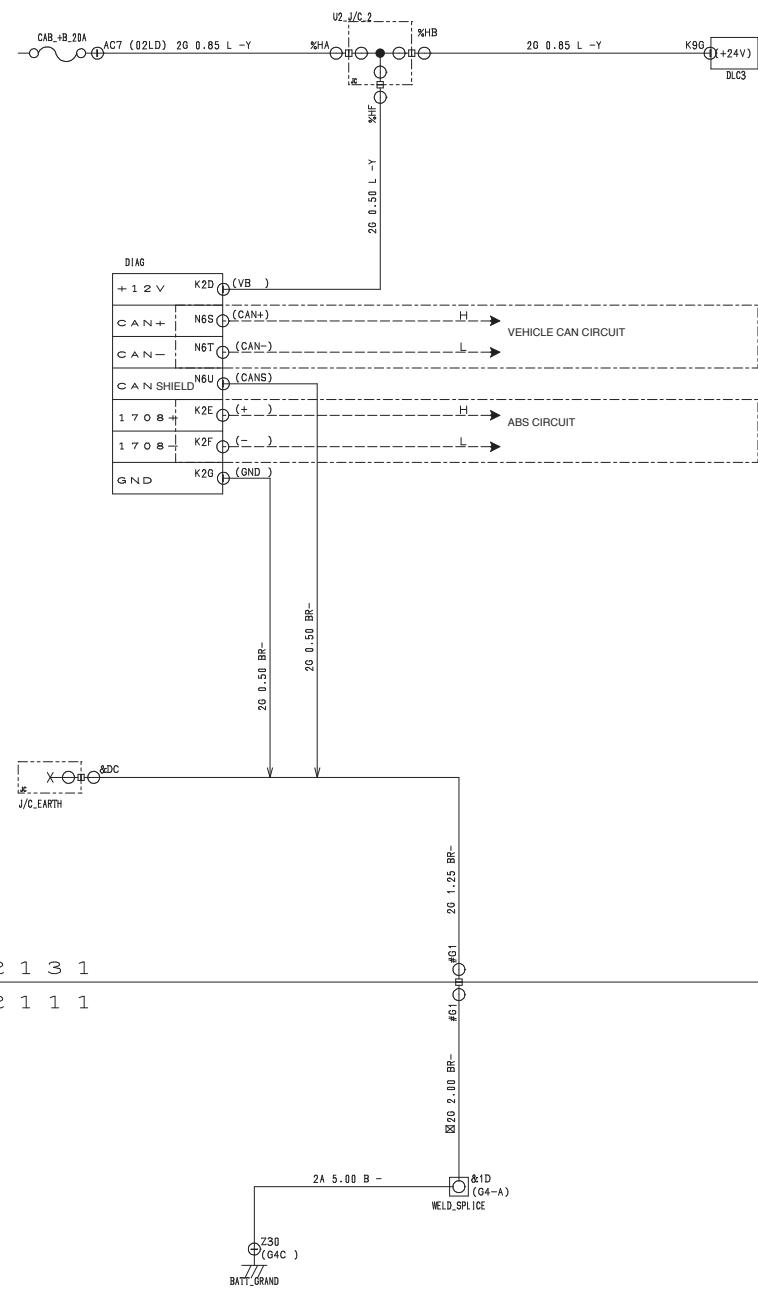




#### 40. DIAG' CONNECTOR CIRCUIT

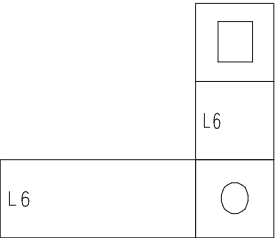
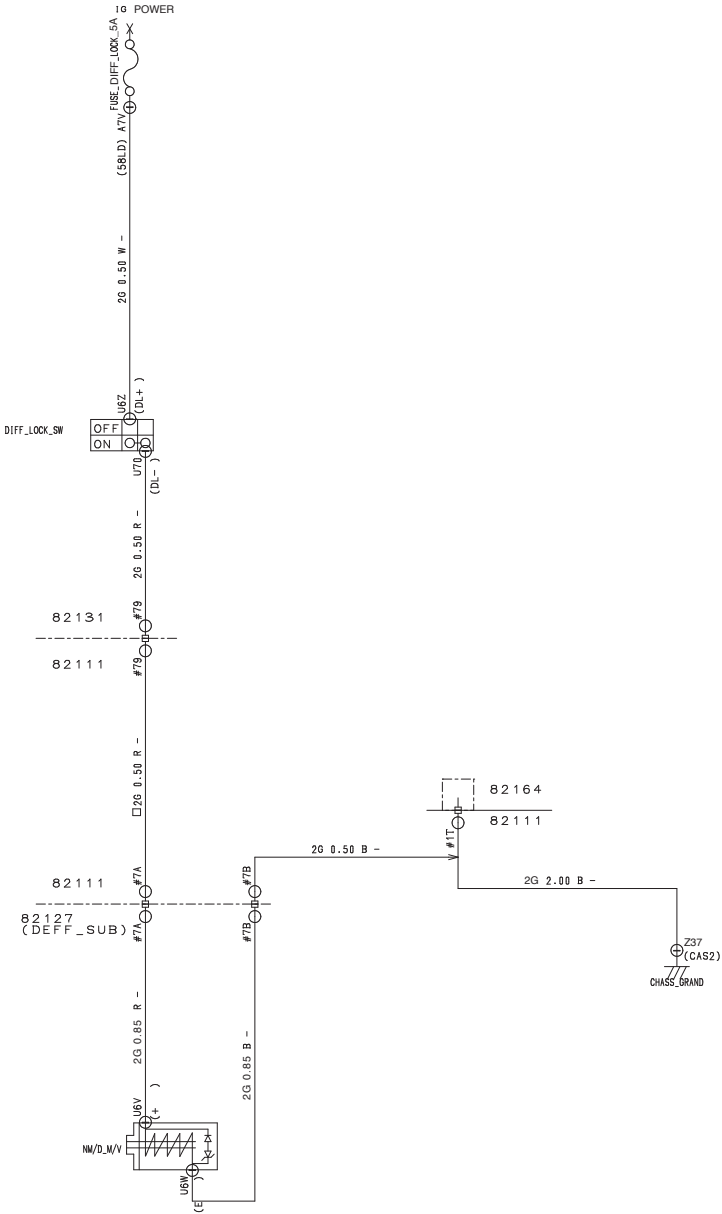
CAB SIDE WIRING

## CHASSIS SIDE WIRING

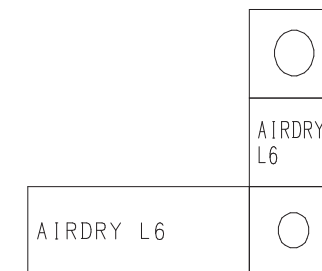
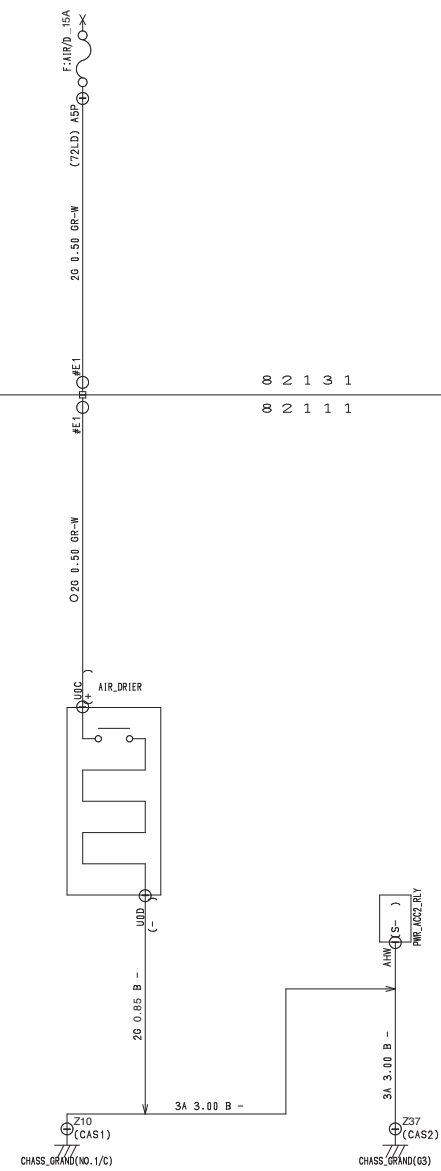


CAB SIDE WIRING

41. MANUAL DIFF LOCK CIRCUIT



## 42. AIR DRIER CIRCUIT

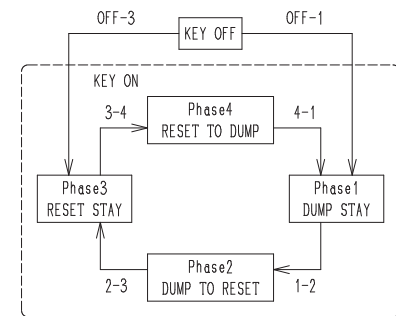
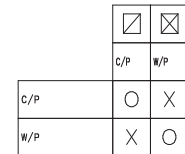


## CAB SIDE WIRING

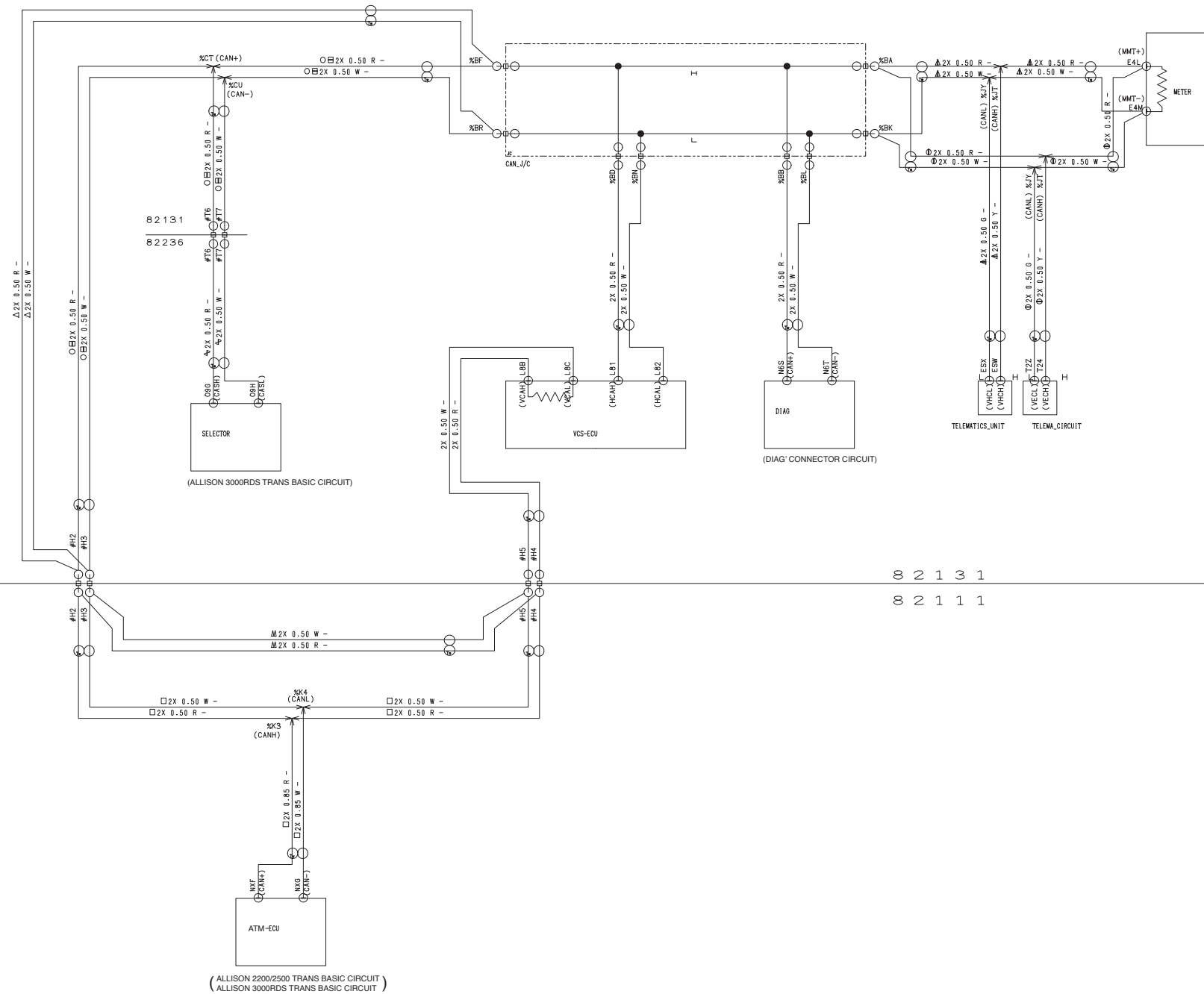
## CHASSIS SIDE WIRING



















PHASE	OPERATION		CONDITION			
	VALVE	INDICATOR	PKB SW	DUMP SW	RESET SW	STARTER KEY SW
KEY-OFF	OFF	OFF	ON/OFF	ON/OFF	ON/OFF	OFF
Phase1	OFF	ON	ON	OFF	OFF	ON
Phase2	ON (DISCHARGE)	-	OFF	ON/OFF	ON/OFF	ON
Phase2	ON (DISCHARGE)	-	ON	OFF	ON	ON
Phase3	OFF	OFF	ON/OFF	OFF	OFF	ON
Phase4	ON (CHARGE)	-	ON	ON	OFF	ON



#### 44. VEHICLE CAN CIRCUIT



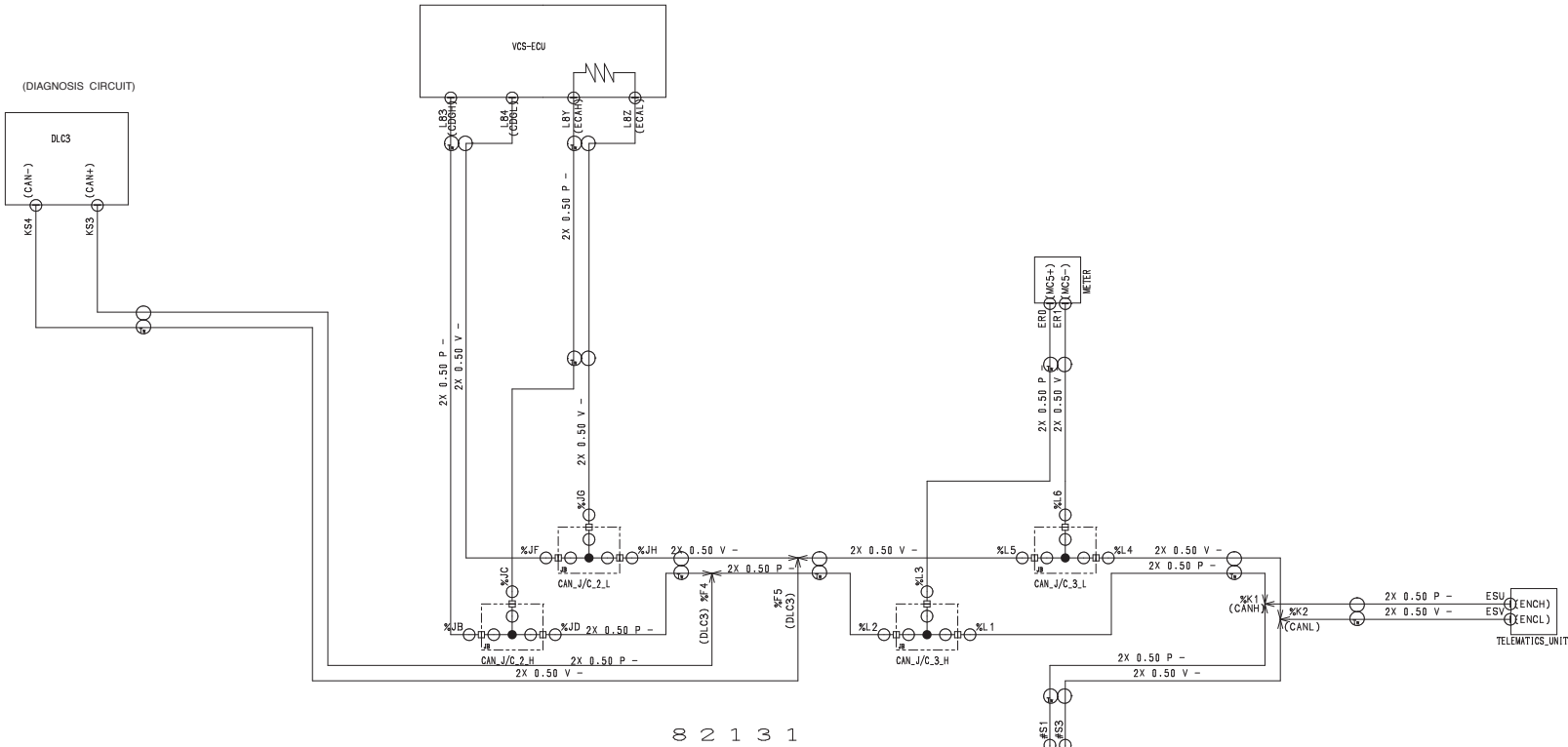
								
MT		ATM 3000	ALL ISO 10200/3000	F/A	17MY_HYD	(18MY+18MY)*HYD	TELEMATICS_8P	TELEMATICS_10P
MT		X	X	X	X	X	X	X
ATM3000	X		X	X	X	X	X	X
ALL ISO 10200/3000	X	X		X	X	X	X	X
F/A	X	X	X		X	X	X	X
17MY_HYD	X	X	X	X		X	X	X
(18MY+18MY)*HYD	X	X	X	X	X		X	X
TELEMATICS_8P	X	X	X	X	X	X		X
TELEMATICS_10P	X	X	X	X	X	X	X	

8 2 1 3 1

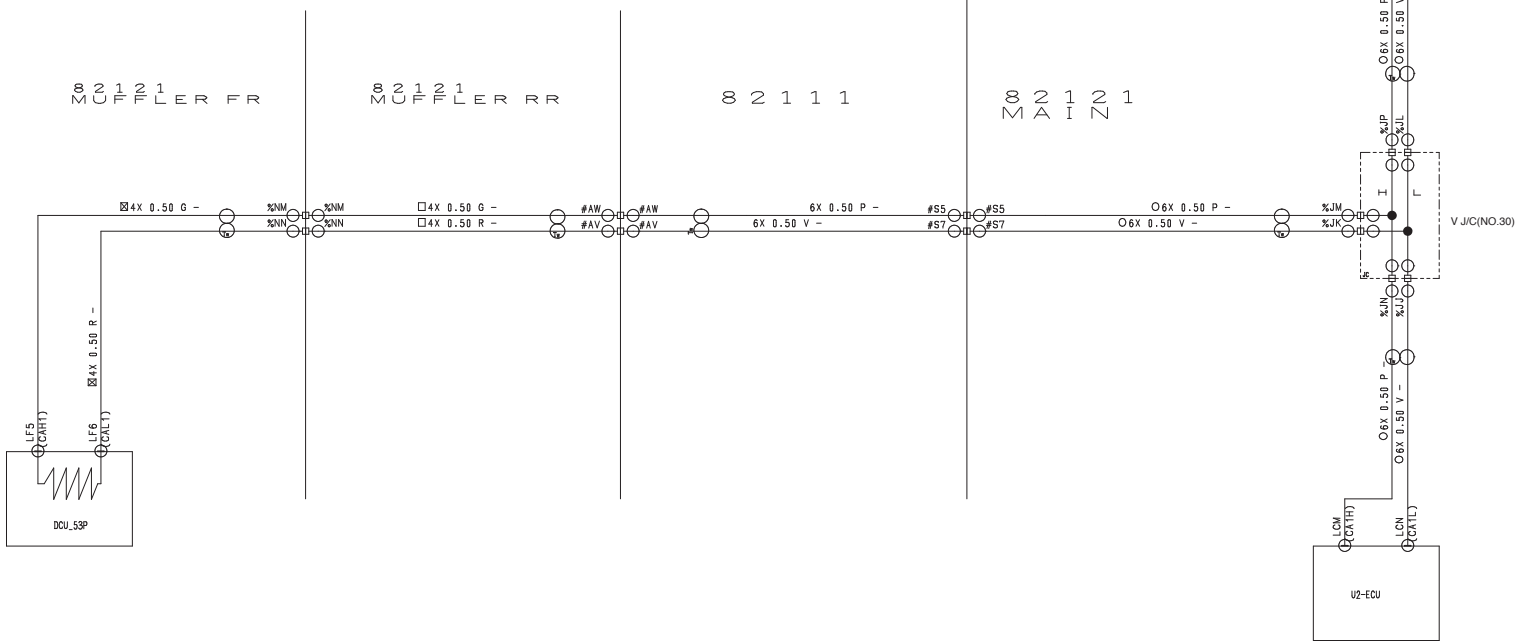
8 2 1 1 1

CAB SIDE WIRING

45. E/G CONTROL & DIAG<sup>1</sup> CAN CIRCUIT

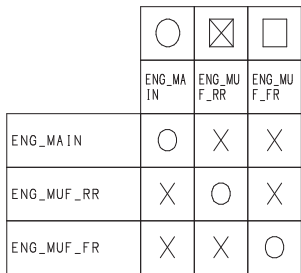


CHASSIS SIDE WIRING



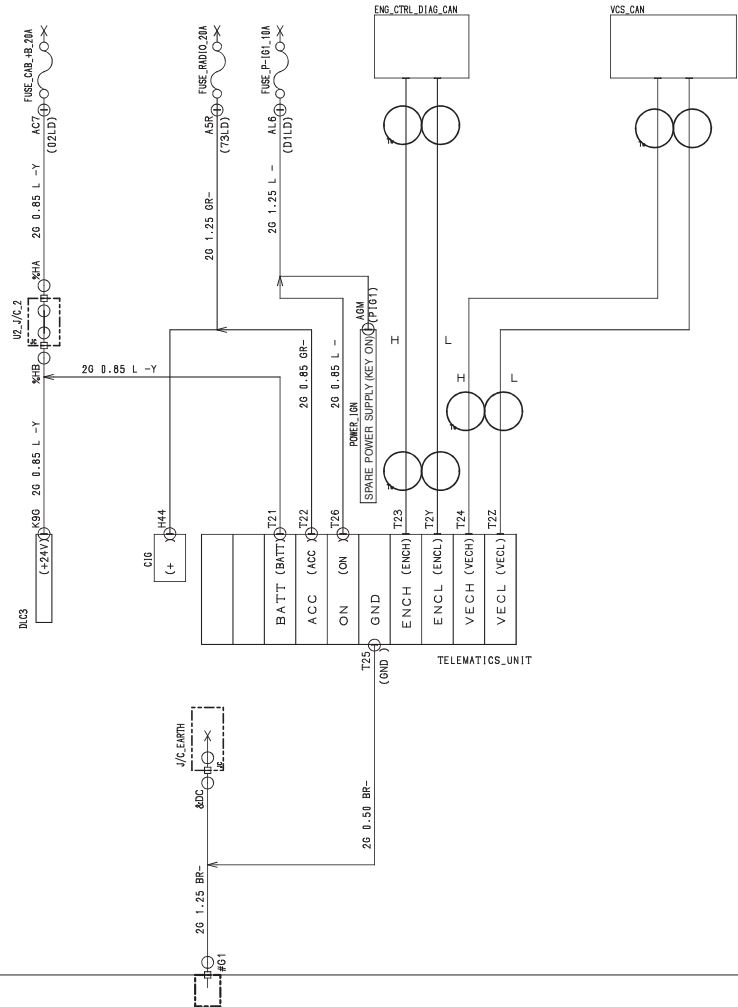
	ENG_MA IN	ENG_MU F_FR	ENG_MU F_RR
ENG_MA IN		X	X
ENG_MUF_FR	X		X
ENG_MUF_RR	X	X	

## CHASSIS SIDE WIRING



## CAB SIDE WIRING

## CHASSIS SIDE WIRING

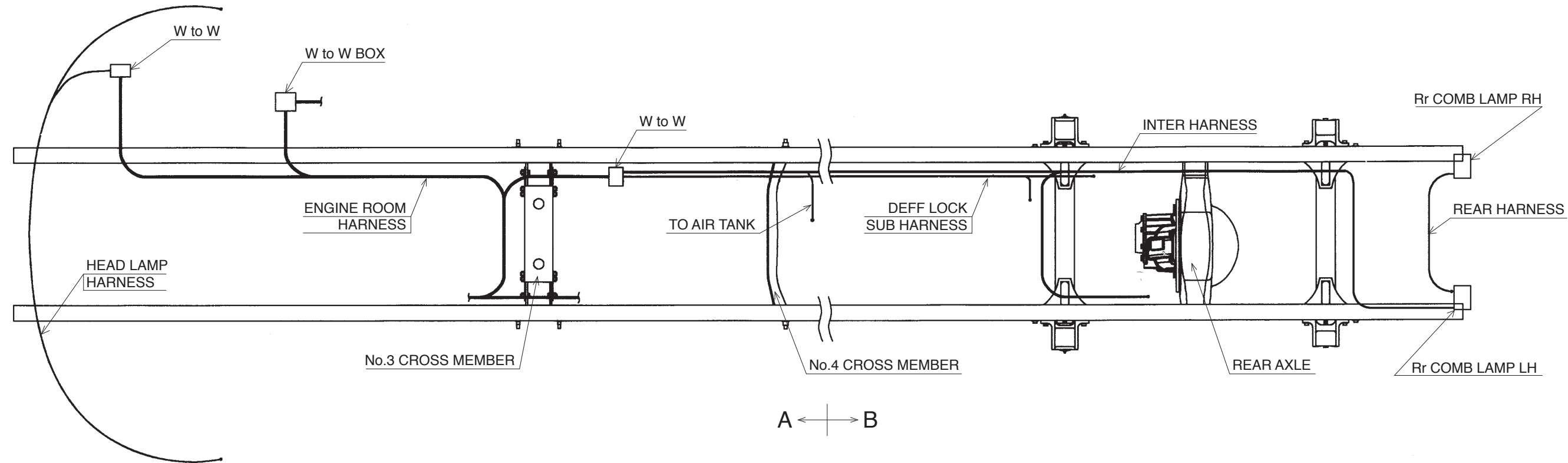




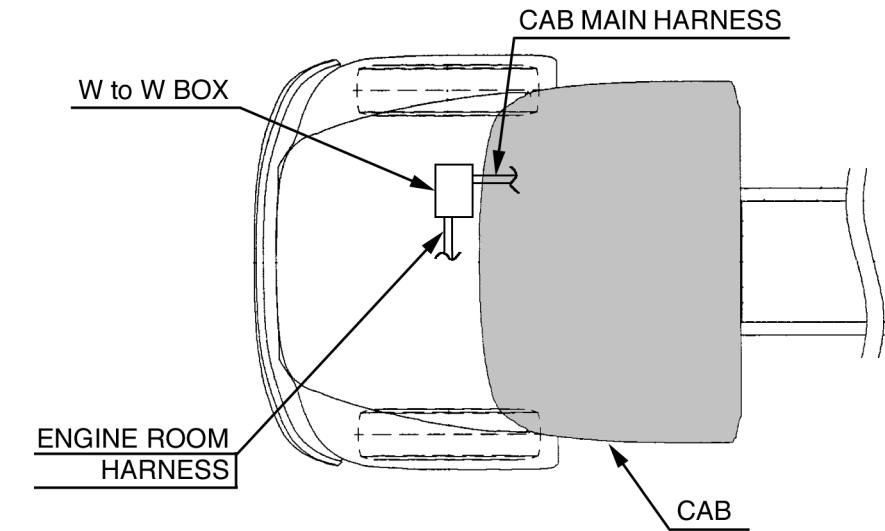
5. CONNECTORS

The following figure shows the location of each connectors.

CHASSIS SIDE

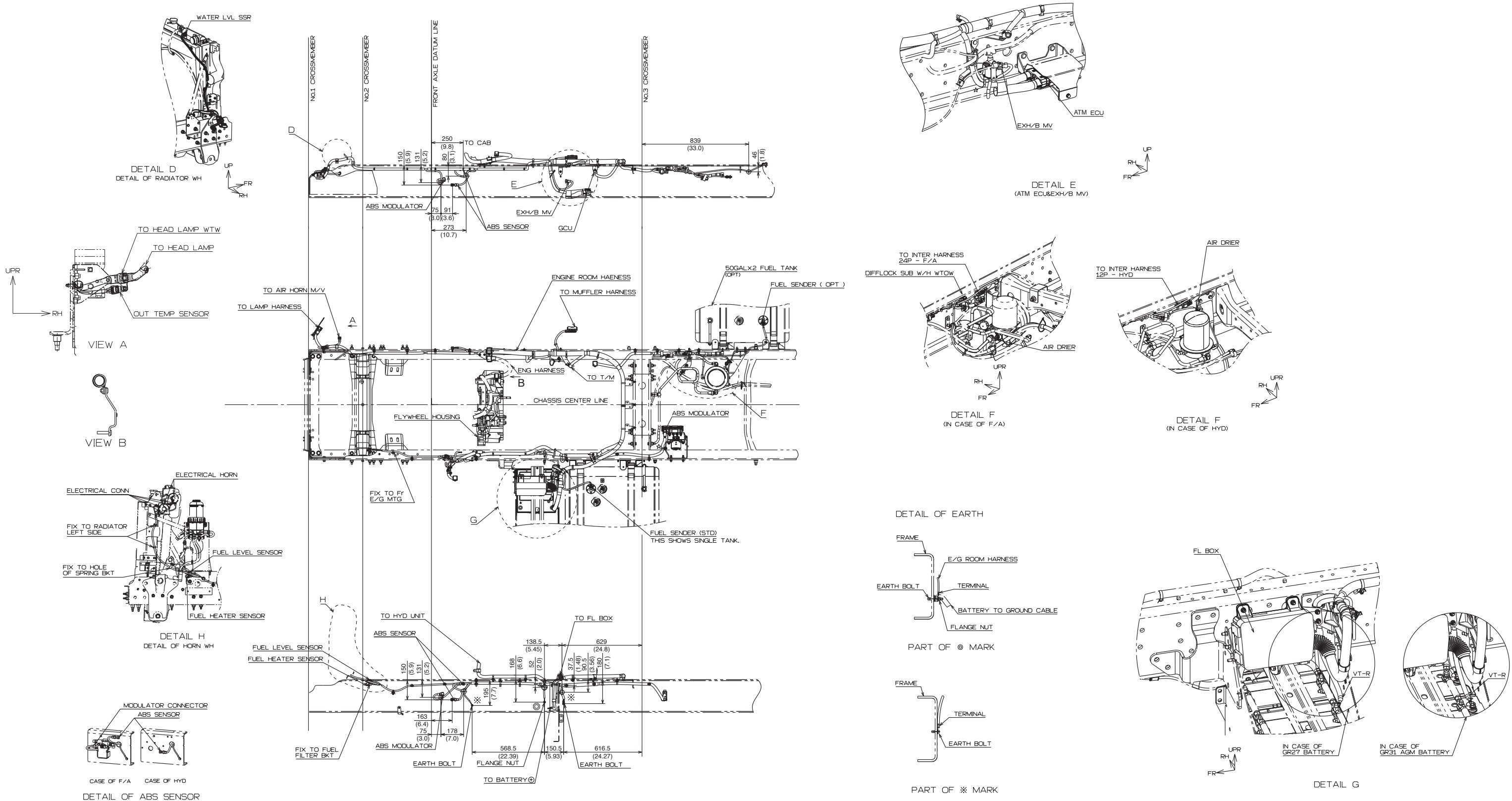


CAB SIDE

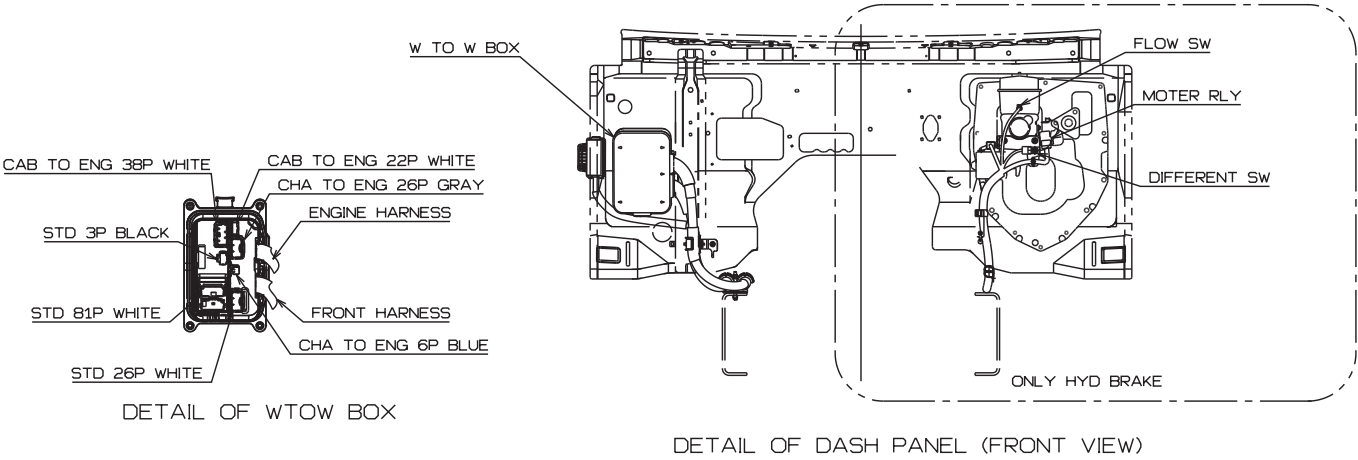


DETAIL OF A PART  
No.1 CROSSMEMBER ~ No.3 CROSSMEMBER  
ENGINE ROOM HARNESS

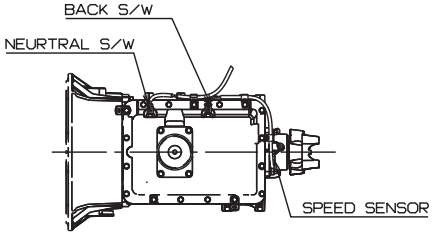
Unit : mm (in.)



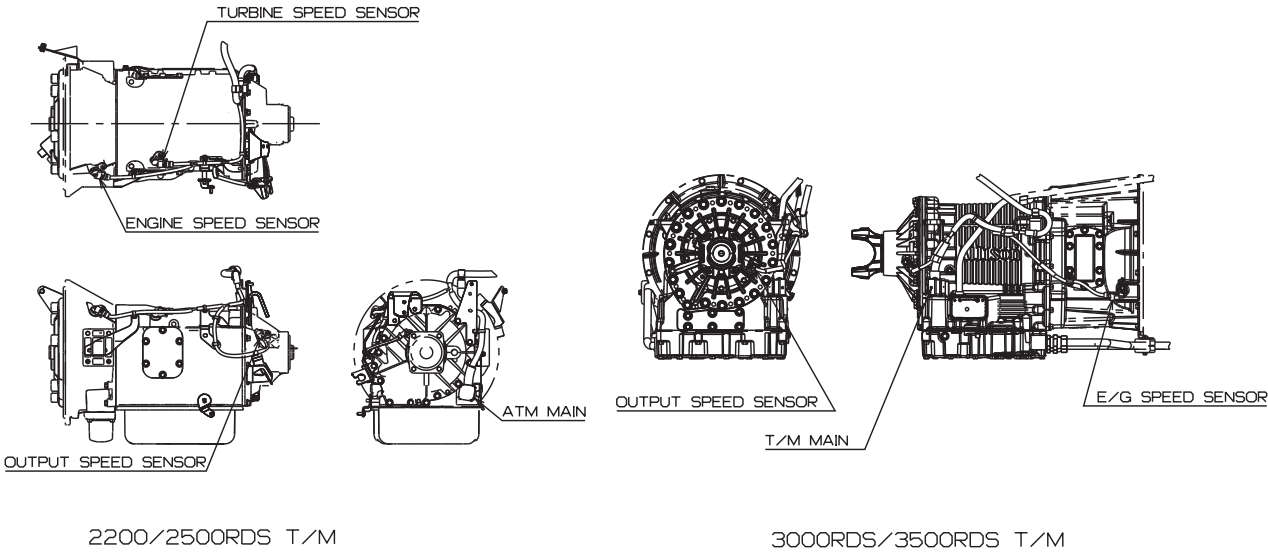
DASH PANEL



EATON T / M

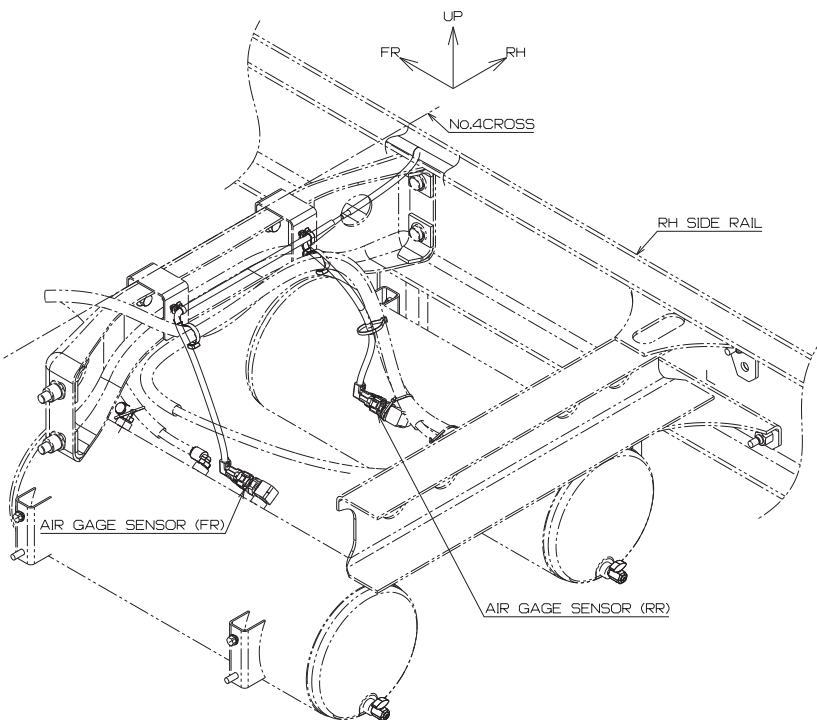
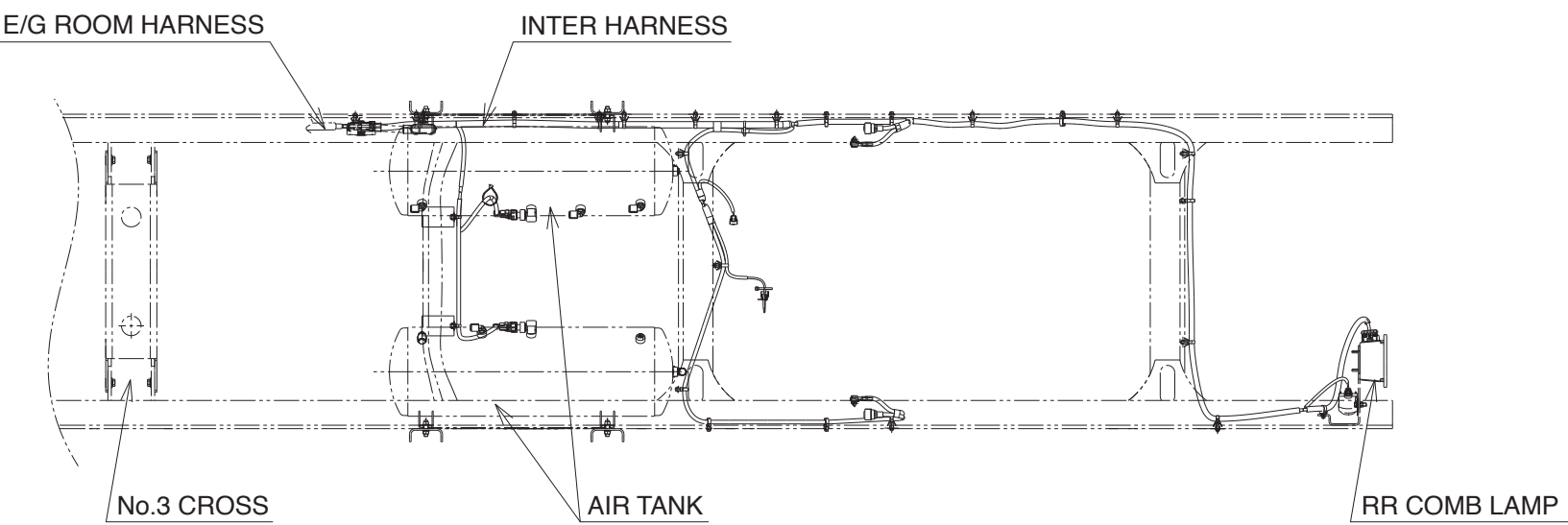


ALLISON ATM

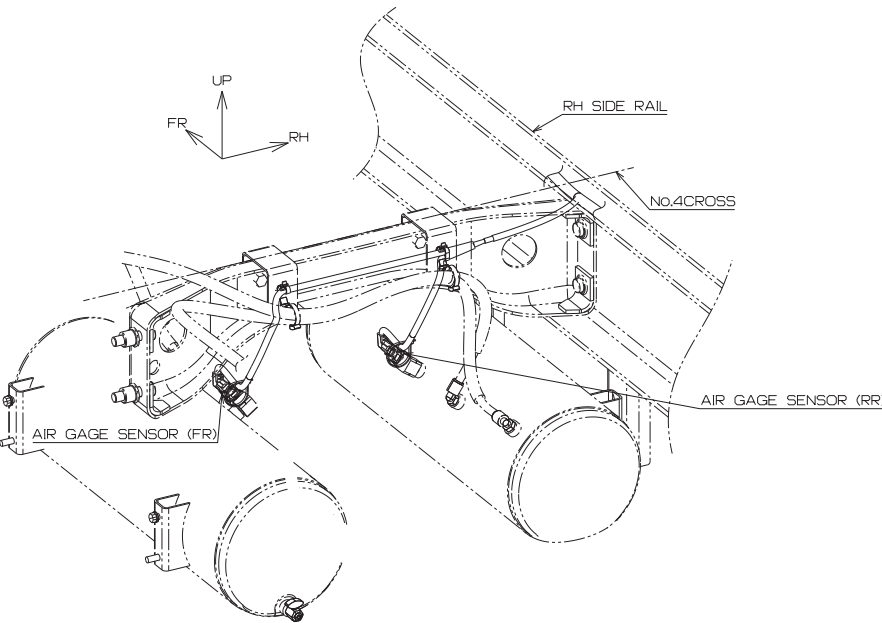


No.4 CROSSMEMBER

AIR TANK



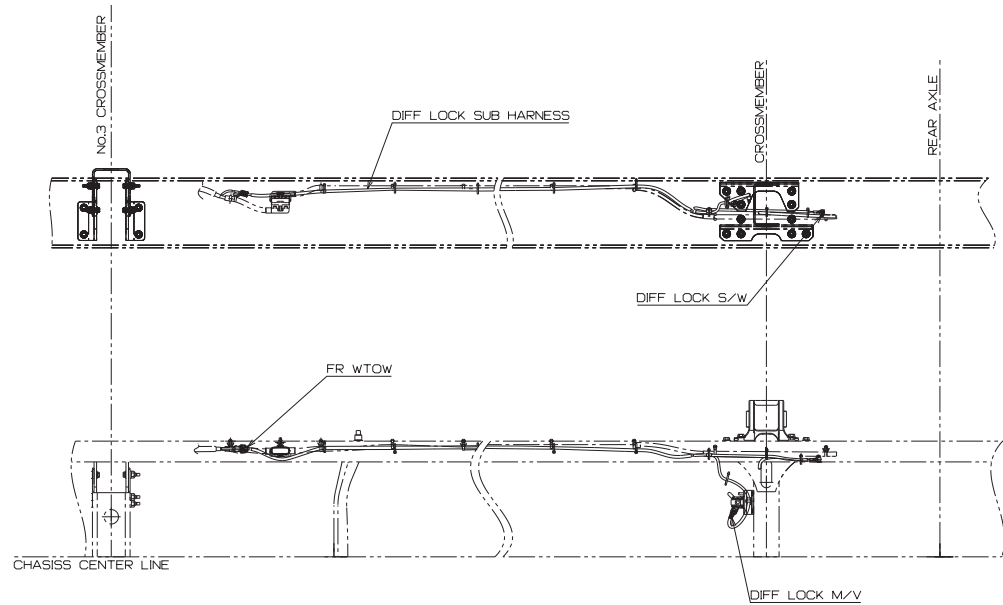
DETAIL HARNESS POSITION ON AIRTANK(W/B=G,J,M,N,P,R,V)



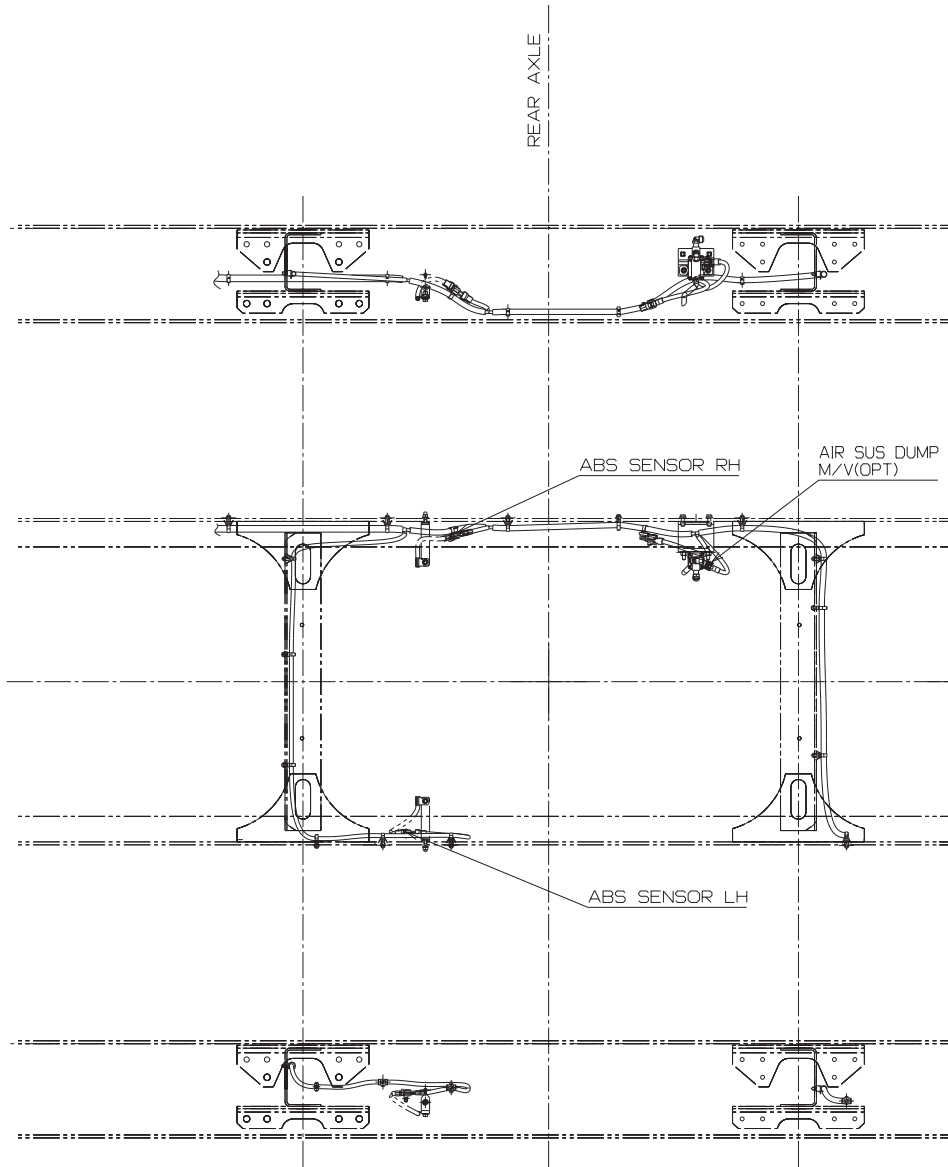
DETAIL HARNESS POSITION ON AIRTANK(W/B=L,T)

DETAIL OF B PART  
AROUND REAR AXILE

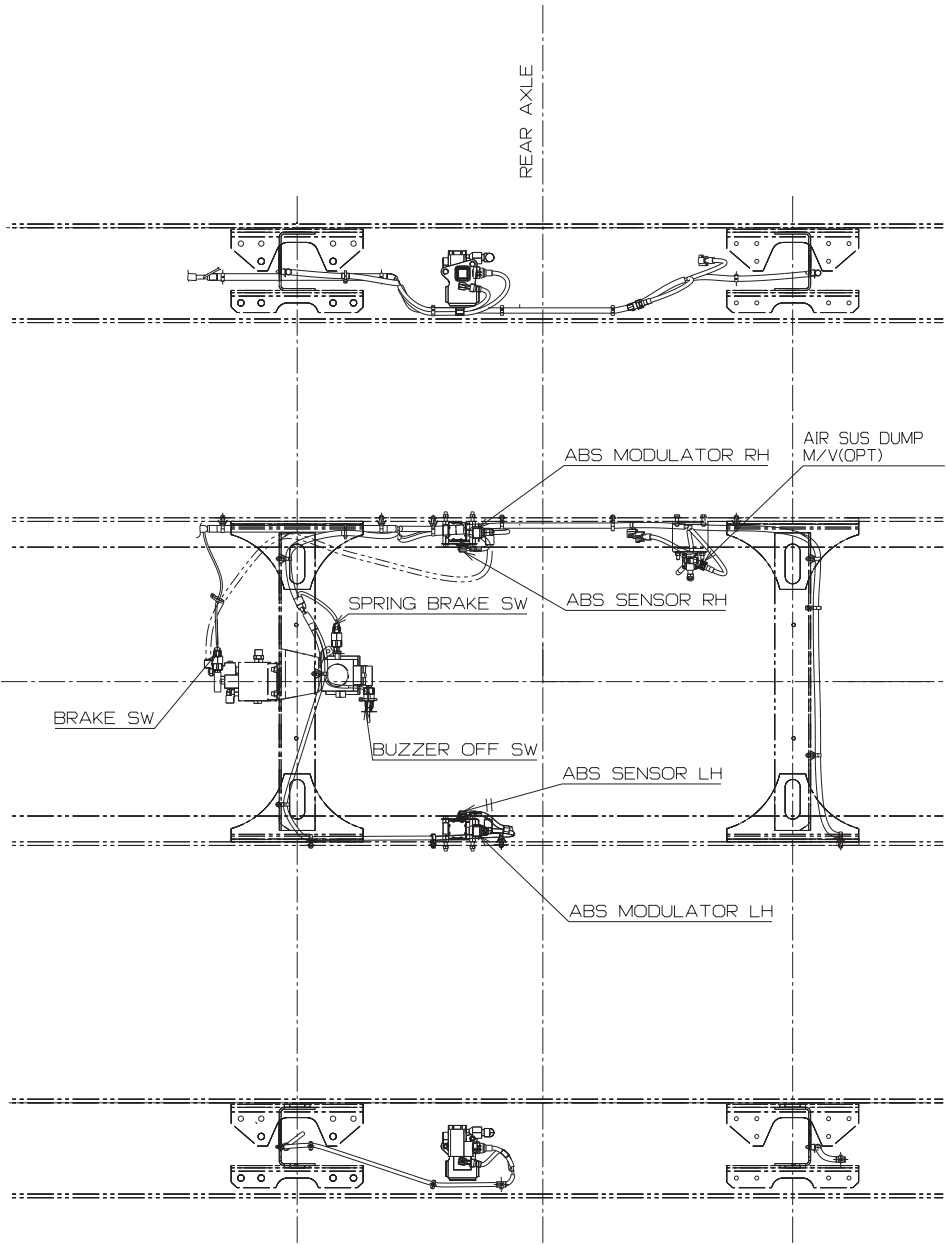
DEFF LOCK SUB HARNESS



INTER HARNESS



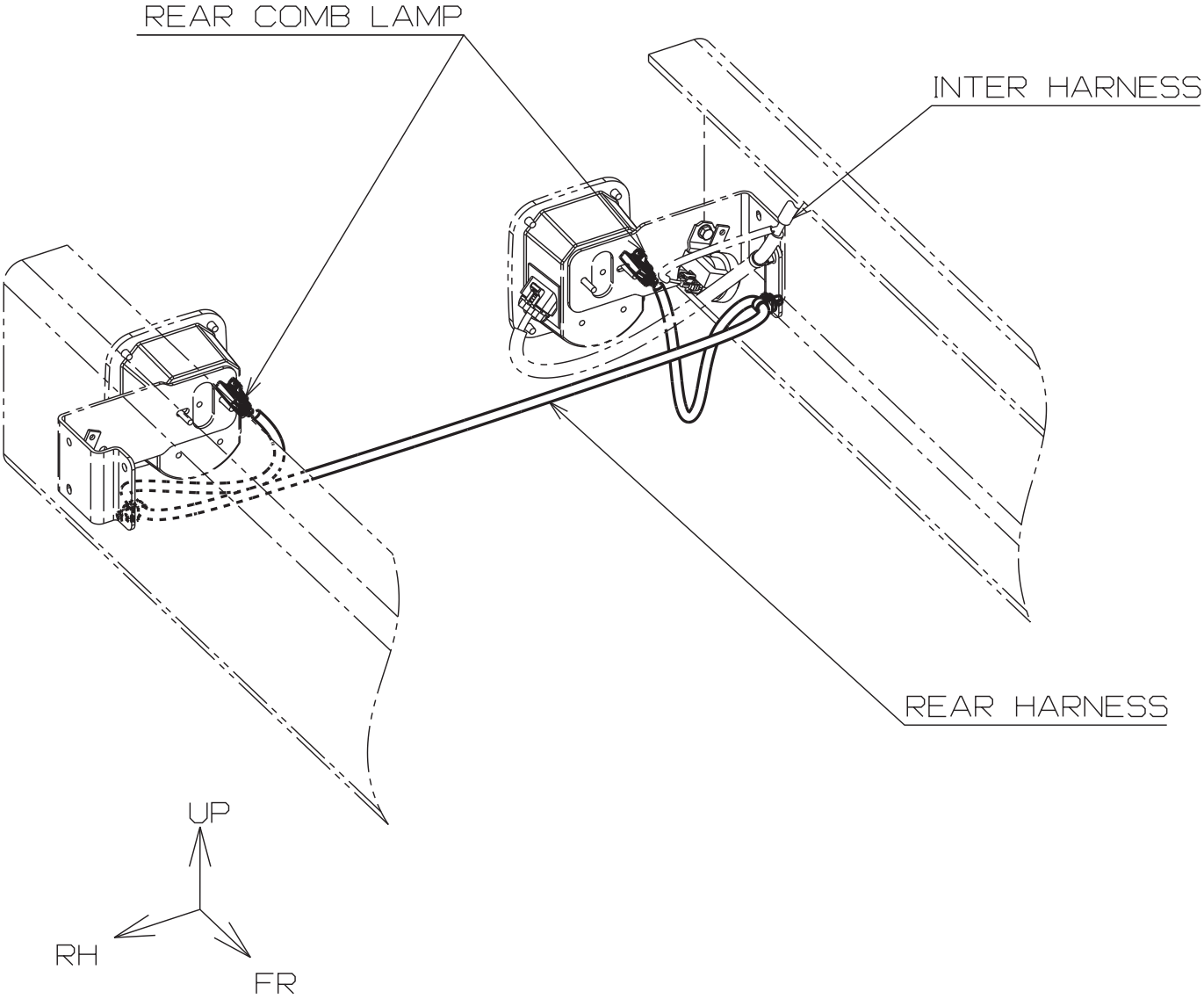
HYDRAULIC BRAKE



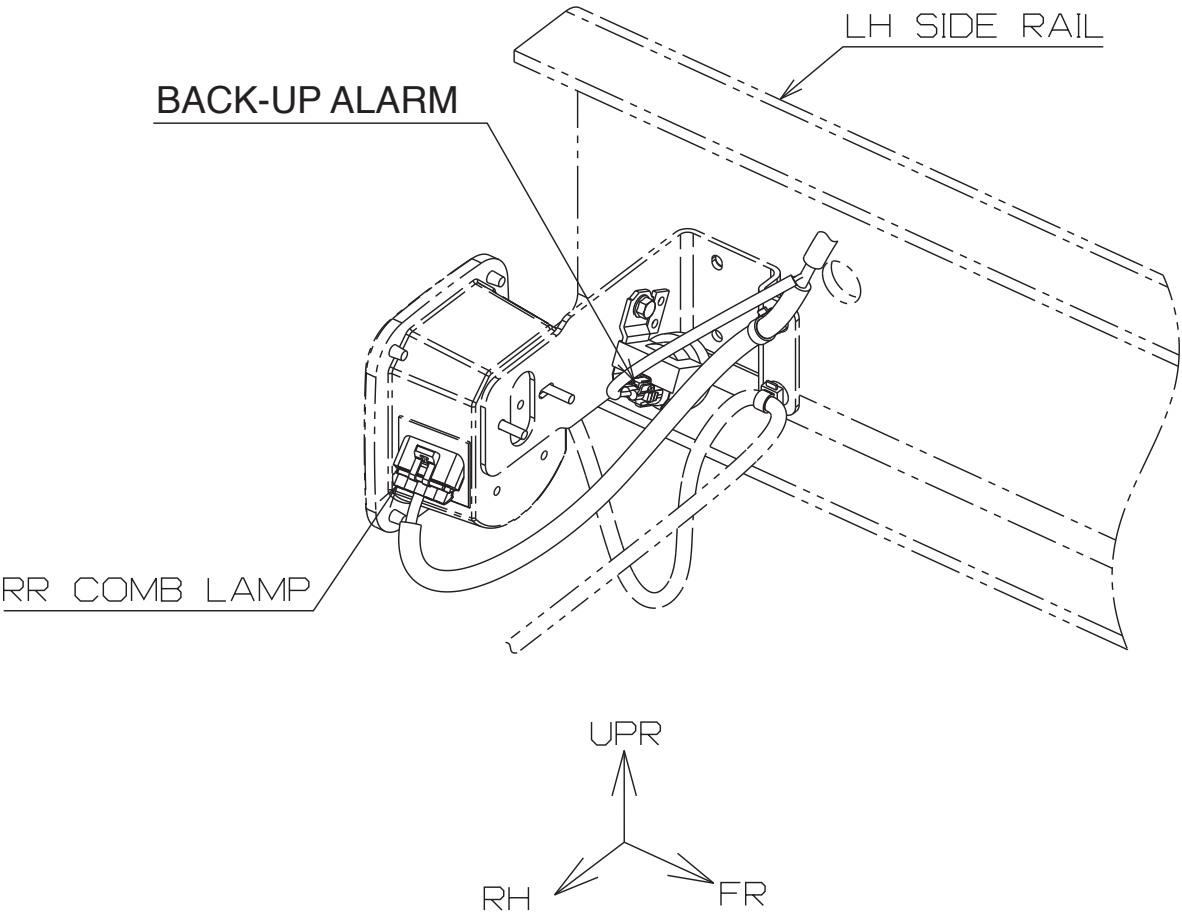
FULL AIR BRAKE

END FRAME

REAR COMB LAMP

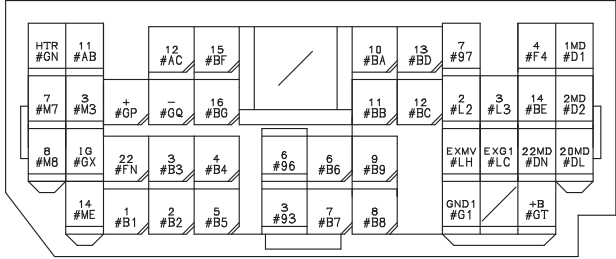
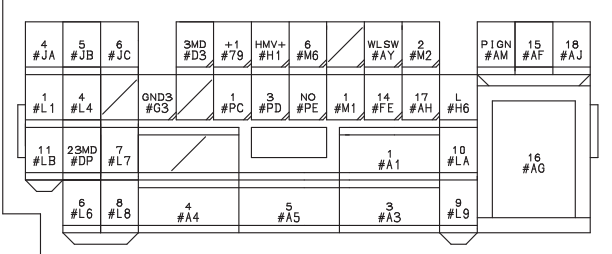
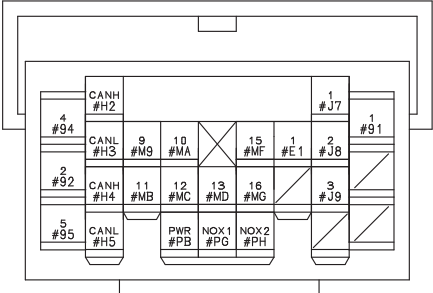


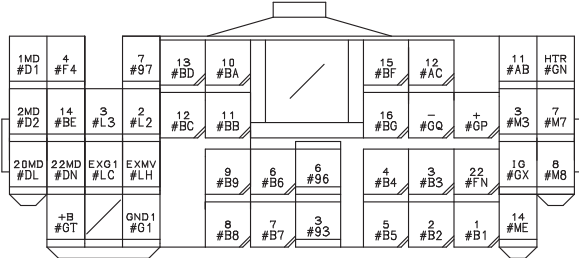
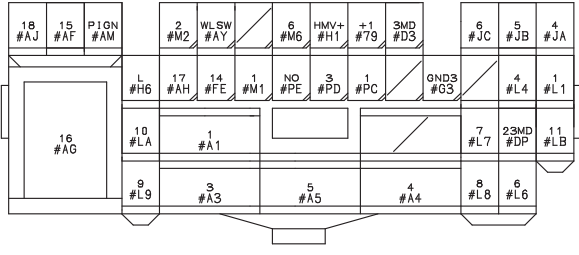
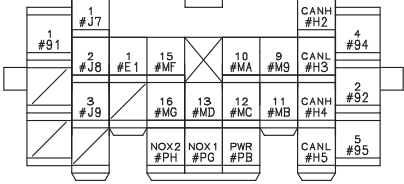
BACK-UP ALARM



CONNECTORS / CHASSIS SIDE

POSITION : W TO W BOX

CAB MAIN HARNESS	1	NO.	PARTS NAME W TO W STD1	CONN. COLOR	APPLICATION	NO.	PARTS NAME W TO W STD2	CONN. COLOR	APPLICATION	NO.	PARTS NAME TO CHAS / OPT1 26P	CONN. COLOR	APPLICATION
		1			FOR ALL MODEL	2			FOR ALL MODEL	3			FOR ALL MODEL

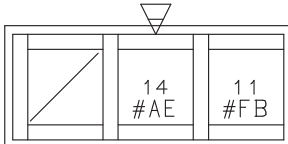
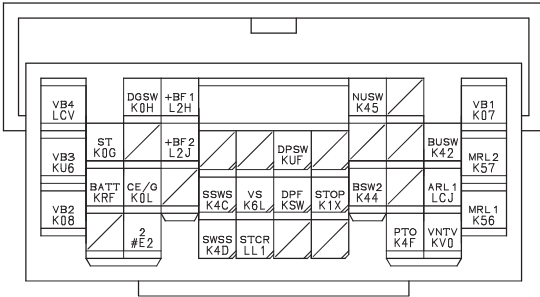
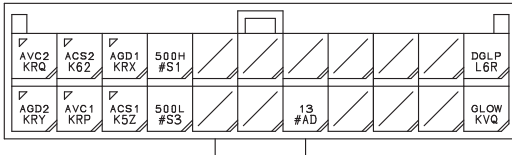
ENGINE ROOM HARNESS	1	NO.	PARTS NAME W TO W STD1	CONN. COLOR	APPLICATION	NO.	PARTS NAME W TO W STD2	CONN. COLOR	APPLICATION	NO.	PARTS NAME TO CAB / OPT1 26P	CONN. COLOR	APPLICATION
		1			FOR ALL MODEL	2			FOR ALL MODEL	3			FOR ALL MODEL



CONNECTORS / CHASSIS SIDE

POSITION : W TO W BOX

CAB MAIN HARNESS

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO CHAS / PWR 3P	B			TO ENG 38P				TO ENG 22P		
4			FOR ALL MODEL	5			FOR ALL MODEL	6			FOR ALL MODEL
	S8258 - 09180A				S8256 - 02150A				S8256 - 02460A		

ENGINE ROOM HARNESS

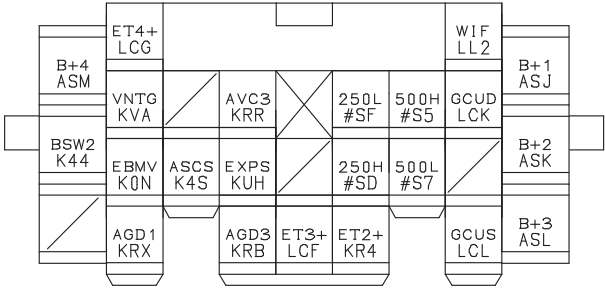
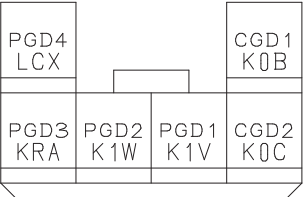
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO CAB / PWR 3P	B									
4	<div><div><div>11 #FB</div><div>14 #AE</div><div></div></div><div>S8258 - 09190A</div></div>		FOR ALL MODEL	5	<div>_____</div>			6	<div>_____</div>		



CONNECTORS / CHASSIS SIDE

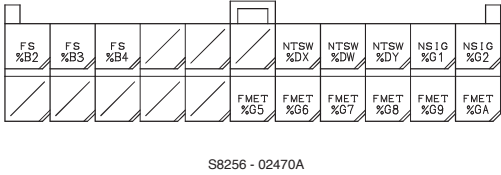
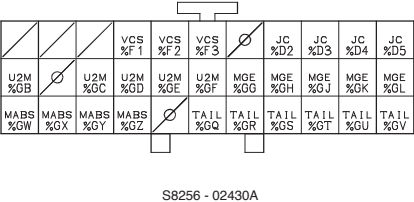
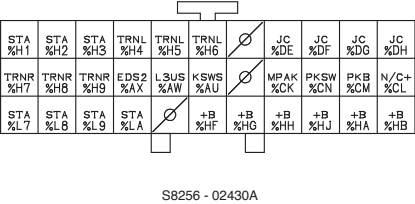
POSITION : W TO W BOX

CAB MAIN HARNESS	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	7				8				9			

ENGINE ROOM HARNESS	NO.	PARTS NAME TO ENG 26P	CONN. COLOR GR	APPLICATION	NO.	PARTS NAME TO ENG 6P	CONN. COLOR L	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	7			FOR ALL MODEL	8			FOR ALL MODEL	9			

CONNECTORS / CHASSIS SIDE

POSITION : W TO W BOX

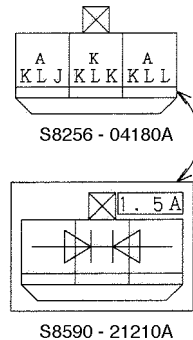
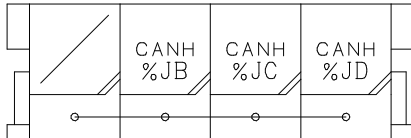
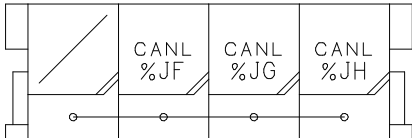
CAB MAIN HARNESS	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
		J / C SIGNAL				U2 J / C1				U2 J / C 2		
	10			FOR ALL MODEL	11			FOR ALL MODEL	12			FOR ALL MODEL

ENGINE ROOM HARNESS	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION

CONNECTORS / CHASSIS SIDE

POSITION : W TO W BOX

CAB MAIN HARNESS

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
13	PKB OFF DIODE		FOR HYDRAULIC BRAKE	14	CAN J / C 2 H		FOR ALL MODEL	15	CAN J / C 2 L		FOR ALL MODEL
											

ENGINE ROOM HARNESS	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	

CONNECTORS / CHASSIS SIDE

POSITION : W TO W (ENGINE ROOM HARNESS TO HEAD LAMP HARNESS)

ENGINE ROOM HARNESS

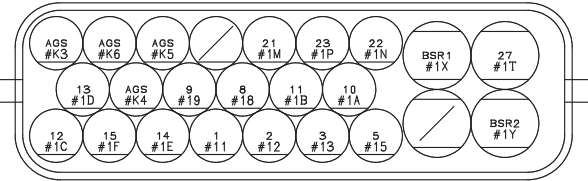
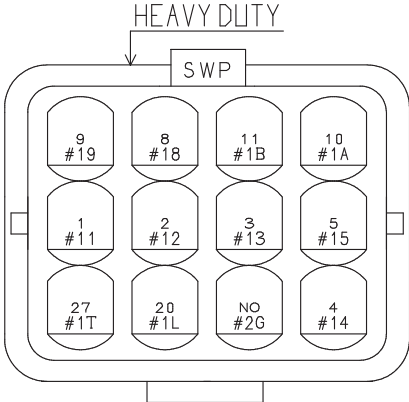
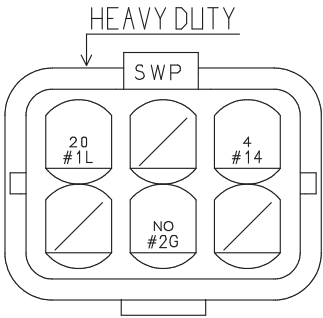
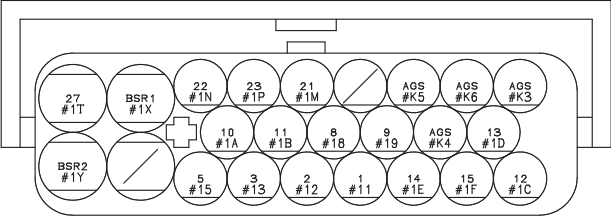
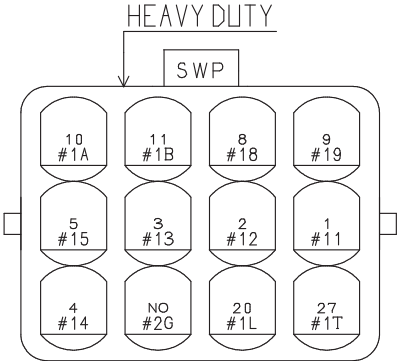
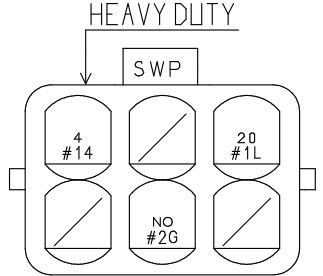
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO H / LP	B									
1	<div><div>HEAVY DUTY</div><div>SWP</div><div><div><div>2 #22</div><div>1 #21</div><div>4 #24</div><div>3 #23</div><div>6 #26</div><div>5 #25</div><div>8 #28</div><div>7 #27</div><div></div><div></div><div></div><div>9 #29</div></div></div><div>S8256 - 03470A</div></div>		FOR ALL MODEL								

HEAD LAMP HARNESS

NO.	PARTS NAME		CONN. COLOR	APPLICATION	NO.	PARTS NAME		CONN. COLOR	APPLICATION	NO.	PARTS NAME		CONN. COLOR	APPLICATION		
	TO FR		B													
1	<div><div>HEAVY DUTY</div><div>SWP</div><div><div><div>3 #23</div><div>4 #24</div><div>1 #21</div><div>2 #22</div><div>7 #27</div><div>8 #28</div><div>5 #25</div><div>6 #26</div><div>9 #29</div><div></div><div></div><div></div></div></div><div>S8256 - 03480A</div></div>			FOR ALL MODEL												

CONNECTORS / CHASSIS SIDE

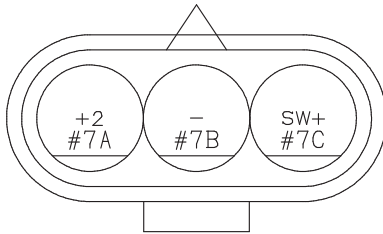
POSITION : W TO W (ENGINE ROOM HARNESS TO INTER HARNESS)

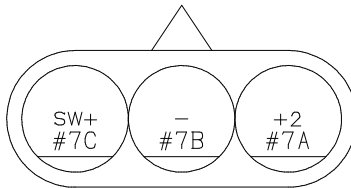
ENGINE ROOM HARNESS	1	NO.	PARTS NAME TO RR / H_1	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO RR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO RR / H_2	CONN. COLOR B	APPLICATION
						FOR FULL AIR BRAKE							
			S8256 - 01320A										
	2	NO.	PARTS NAME TO RR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H_2	CONN. COLOR B	APPLICATION
						FOR HYDRAULIC BRAKE							
			S8256 - 03470A										
	3	NO.	PARTS NAME TO RR / H_2	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H_2	CONN. COLOR B	APPLICATION
						FOR FULL AIR BRAKE							
			S8256 - 03410A										
INTER HARNESS	1	NO.	PARTS NAME TO FR / H_1	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H_2	CONN. COLOR B	APPLICATION
						FOR FULL AIR BRAKE							
			82824-E0K00										
	2	NO.	PARTS NAME TO FR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H_2	CONN. COLOR B	APPLICATION
						FOR HYDRAULIC BRAKE							
			S8256 - 03480A										
	3	NO.	PARTS NAME TO FR / H_2	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H	CONN. COLOR B	APPLICATION	NO.	PARTS NAME TO FR / H_2	CONN. COLOR B	APPLICATION
						FOR FULL AIR BRAKE							
			S8256 - 03420A										

CONNECTORS / CHASSIS SIDE

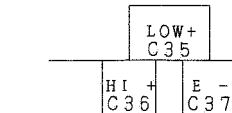
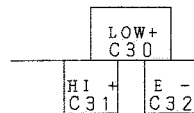
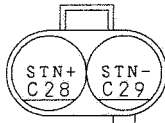
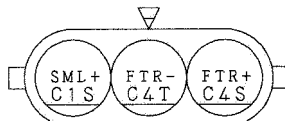
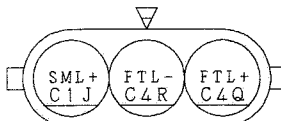
POSITION : W TO W (ENGINE ROOM HARNESS TO DEFF LOCK SUB HARNESS)

ENGINE ROOM HARNESS

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO DEF / LCK SUB	B									
1			FOR DEFF LOCK								
	S8258 - 07130B										

DEFF LOCK SUB HARNESS	DEFF LOCK SUB HARNESS			DEFF LOCK SUB HARNESS			DEFF LOCK SUB HARNESS					
	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
		TO FR	B									
	1	<div></div> <div>S8258 - 07140B</div>		FOR DEFF LOCK								

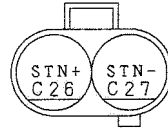
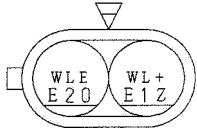
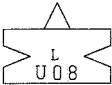
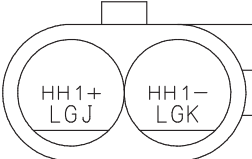

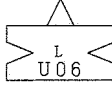

CONNECTORS / CHASSIS SIDE

POSITION : HEAD LAMP (RH)				POSITION : HEAD LAMP (LH)				POSITION : FENDER (RH)			
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	HEAD LAMP RH	B	FOR ALL MODEL		HEAD LAMP LH	B	FOR ALL MODEL		SIDE TURN LAMP RH	GR	FOR ALL MODEL
1	 S8258 - 02160A			1	 S8258 - 02160A			1	 S8258 - 06770B		
	F / TURN LP RH	B			F / TURN LP LH	B					
2	 S8256 - 01730A		FOR ALL MODEL	2	 S8256 - 01730A		FOR ALL MODEL				

CONNECTORS / CHASSIS SIDE

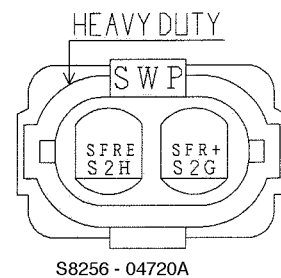
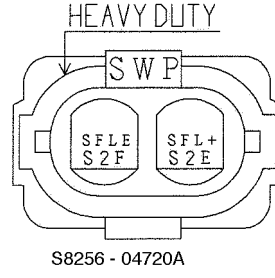
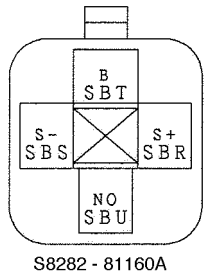
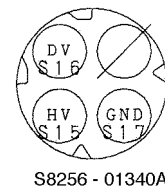
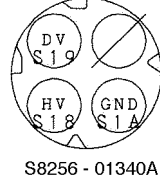
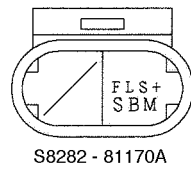
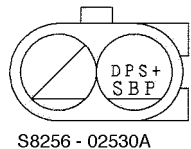
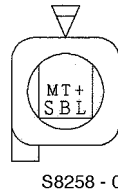
POSITION : FENDER (LH)

POSITION : RADIATOR

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	SIDE TURN LAMP LH	GR			COOLANT LVL SW	GR			HORN-LO (-)	B	
1	 S8258 - 06770B		FOR ALL MODEL	1	 S8258 - 07180B		FOR ALL MODEL	3	 S8258 - 07590A		FOR ALL MODEL
					AMB TEMP SSR	B			HORN-LO (+)	B	
				2	 S8256 - 02530A		FOR ALL MODEL	4	 S8258 - 07590A		FOR ALL MODEL
									HORN-HI (-)	B	
								5	 S8258 - 07590A		FOR ALL MODEL
									HORN-HI (+)	B	
								6	 S8258 - 07590A		FOR ALL MODEL



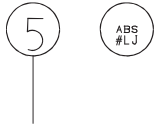
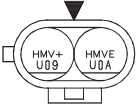
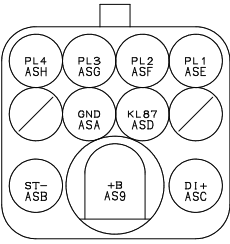
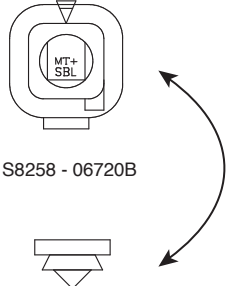

CONNECTORS / CHASSIS SIDE

POSITION : ABS SENSOR (Fr, RH)				POSITION : ABS SENSOR (Fr, LH)				POSITION : DASH PANEL (HYDRAULIC BRAKE UNIT)			
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
1	ABS SENSOR FR RH	B	FOR ALL MODEL	1	ABS SENSOR FR LH	B	FOR ALL MODEL	1	MOTOR RLY	B	FOR HYDRAULIC BRAKE
											
2	MODULATOR FR RH	B	FOR FULL AIR BRAKE	2	MODULATOR FR LH	B	FOR FULL AIR BRAKE	2	FLOW SW	GR	FOR HYDRAULIC BRAKE
											
									DIFFERENT SW	B	FOR HYDRAULIC BRAKE
								3			
									MOTOR PUMP	B	FOR HYDRAULIC BRAKE
								4			

CONNECTORS / CHASSIS SIDE

POSITION : AIR HORN

POSITION : FL BLOCK SIDE

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	MOTOR PUMP				AIR HORN M / V	B			GCU	B	
5	 SZ591 - 05003		FOR HYDRAULIC BRAKE	1	 S8258 - 09250A		FOR ALL MODEL	1	 S8281-E0730		FOR ALL MODEL
	TO FR / H	B									
6	 S8258 - 06720B  82586-1060A		FOR HYDRAULIC BRAKE								

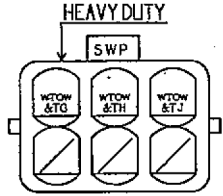
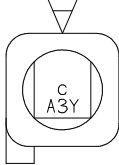
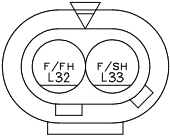
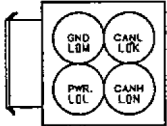
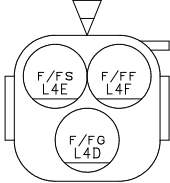
**POSITION : ENGINE**

[illegible]

CONNECTORS / CHASSIS SIDE

POSITION : ENGINE (STARTER)

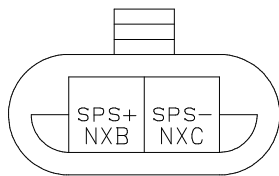
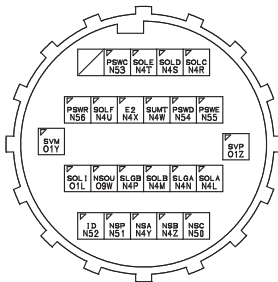
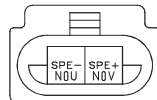
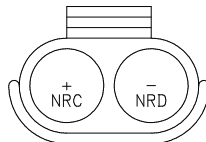
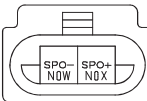
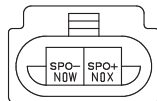
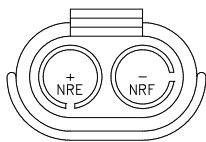
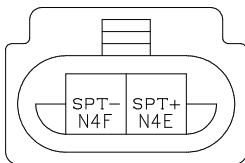
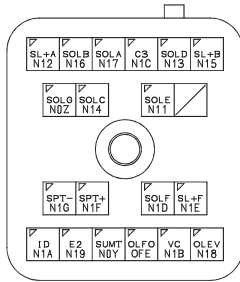
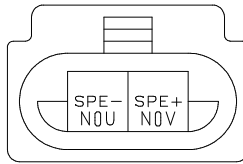
POSITION : ENGINE (LH SIDE)

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	W TO W_B	B			TO ST / H	B			F / F HEATER SENSOR	DG	
13	 S82560-3420A		FOR ALL MODEL	1	 S8258 - 06730B		FOR ALL MODEL	1	 S8256 - 03830A		FOR ALL MODEL
14	PM SENSOR	B						2	WATER LEVEL SENSOR	DG	
	 S8261-E0F40		FOR ALL MODEL						 S8258 - 09970A		FOR ALL MODEL

CONNECTORS / CHASSIS SIDE

POSITION : T / M (MTM)

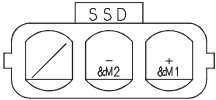
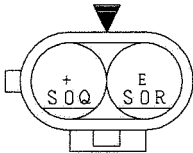
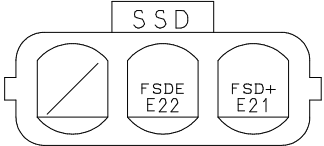
POSITION : T / M (ATM)

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	SPEED SENSOR	B	FOR MTM		MAIN TRANS_1	B	FOR ALLISON 2200 / 2500		EG SPEED SENSOR_2	B	FOR ALLISON 3000 / 3500
1	 S8256 - 01990A	1		 S8282 - 81590A	5	 S8282 - 81610A					
2	 S8282 - 81210A	2		 S8282 - 81610A	6	 S8282 - 81610A					
3	 S8282 - 81200A	3		 S8282 - 81610A	7	 S8282 - 81580A					
				4	 S8282 - 81610A						

CONNECTORS / CHASSIS SIDE

POSITION : FUEL TANK

POSITION : EXHAUST BRAKE Mg / V

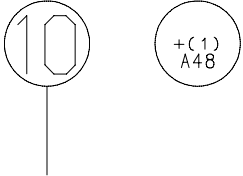
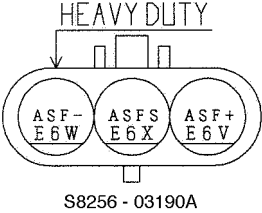
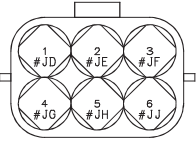

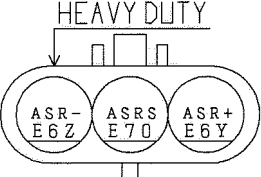
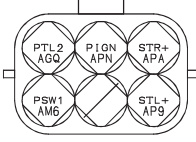
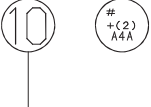
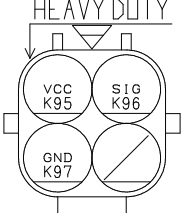
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	FUEL SENDER RH	DG			EXH / B M / V	B					
1	<div></div> <div>S8256 - 04350A</div>		FOR ALL MODEL	1	<div></div> <div>S8258 - 09250A</div>		FOR ALL MODEL				
	FUEL SENDER LH	DG									
2	<div></div> <div>S8256 - 04350A</div>		FOR ALL MODEL								

CONNECTORS / CHASSIS SIDE

POSITION : BATTERY

POSITION : AIR TANK

POSITION : POWER SUPPLY

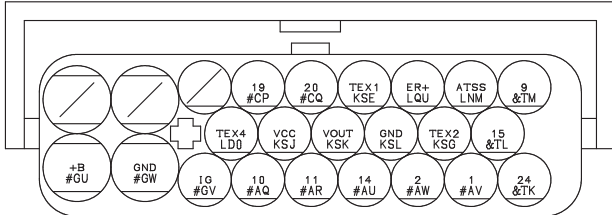
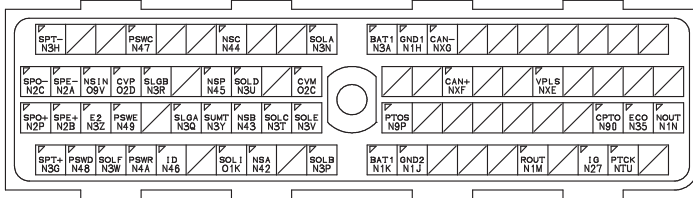
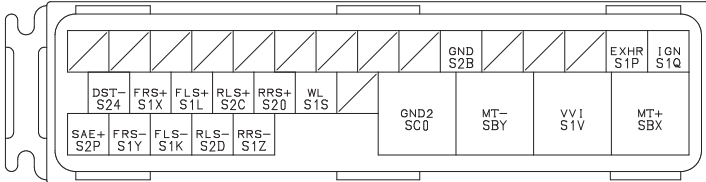
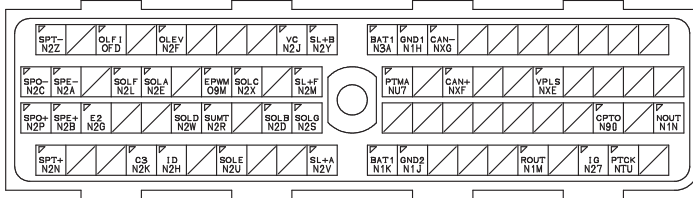
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	BATTERY				AIR GAGE SNSR FR	B			OPT CONN CHA	B	
1	 99142-15100		FOR ALL MODEL	1	 S8256-03190A		FOR FULL AIR BRAKE	1	 S8281-E0D80		FOR ALL MODEL
	W / S &1D				AIR GAGE SNSR RR	B			SPARE CHASSIS	B	
2	 SPLCE-W0001		FOR ALL MODEL	2	 S8256-03190A		FOR FULL AIR BRAKE	2	 S8281-E0D80		FOR ALL MODEL
	BATTERY 2								PTO ACCEL SSR	B	
3	 99142-14100		FOR ALL MODEL					3	 S8256-01260A		FOR ALL MODEL

CONNECTORS / CHASSIS SIDE

POSITION : MUFFLER

POSITION : ATM-ECU

POSITION : ABS MODULATOR

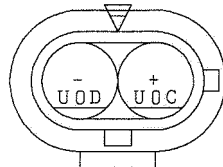
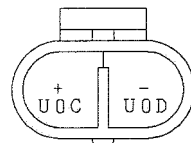
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO MUF 24P				ALLISON ECU	B			ABS H / U WITH ECU		
1	<div><p>82824-E0K00</p></div>		FOR ALL MODEL	1	<div><p>S8282 - 81570A</p></div>		FOR ALLISON 2200 / 2500	1	<div><p>S8282 - 81560A</p></div>		FOR HYDRAULIC BRAKE
					ALLISON ECU	B					
				2	<div><p>S8282 - 81570A</p></div>		FOR ALLISON 3000 / 3500				
								4			



CONNECTORS / CHASSIS SIDE

POSITION : AIR DRIER

POSITION : FL-BLOCK

PARTS NAME			CONN. COLOR			APPLICATION		
AIR DRIER			B			FOR HYDRAULIC BRAKE		
								
AIR DRIER			B			FOR FULL AIR BRAKE		
								

PARTS NAME			CONN. COLOR			APPLICATION		
R / B No.2			B			FOR HYDRAULIC BRAKE (Vr. E)		

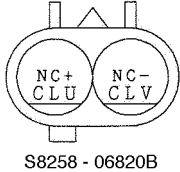
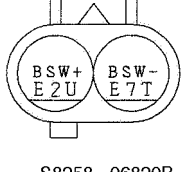
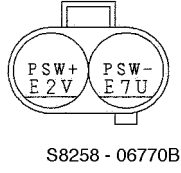
**POSITION : FL-BLOCK**

82620-E0120

CONNECTORS / CHASSIS SIDE

POSITION : BRAKE VALVE (Fr)

POSITION : BRAKE VALVE (Rr)

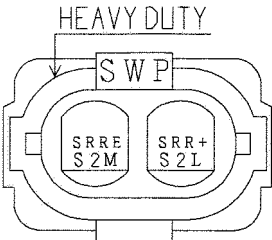
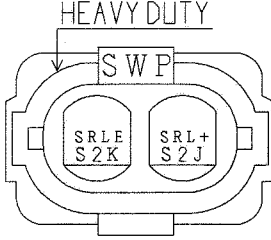
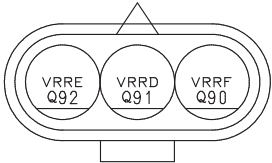
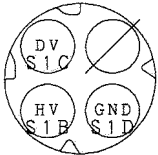
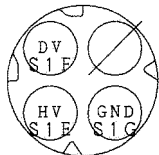
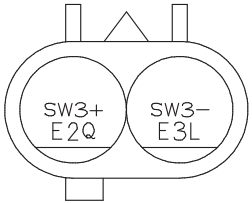
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	BRAKE SW (NC)	B			BZR OFF SW	B					
1			FOR FULL AIR BRAKE	1			FOR FULL AIR BRAKE				
					SPG BRK SW	DG					
				2			FOR FULL AIR BRAKE				

CONNECTORS / CHASSIS SIDE

POSITION : ABS SENSOR (Rr, RH)

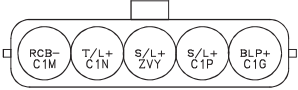
POSITION : ABS SENSOR (Rr, LH)

POSITION : AIR SUS DUMP Mg / V

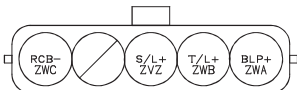
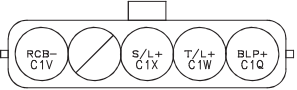
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	ABS SENSOR RR RH	B			ABS SENSOR RR LH	B			AIR SUS DUMP M / V	B	
1	 S8256 - 04720A		FOR ALL MODEL	1	 S8256 - 04720A		FOR ALL MODEL	1	 S8258 - 07130B		FOR REAR AIR SUSPENSION
2	 S8256 - 01340A		FOR FULL AIR BRAKE	2	 S8256 - 01340A		FOR FULL AIR BRAKE	2	 S8258 - 06820B		FOR REAR AIR SUSPENSION

CONNECTORS / CHASSIS SIDE

POSITION : Rr COMB LAMP (LH)

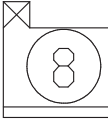

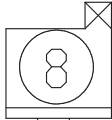

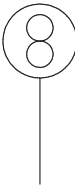

NO.	PARTS NAME	CONN. COLOR	APPLICATION
	RR COMB LH IN	GR	
1	<div></div> <div>S8281-E0D60</div>		FOR ALL MODEL

POSITION : REAR HARNESS

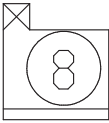
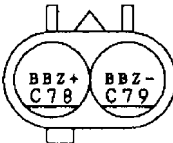
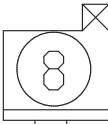
NO.	PARTS NAME	CONN. COLOR	APPLICATION
	RR COMB LH OUT	B	
1	<div></div> <div>S8281-E0D70</div>		FOR ALL MODEL
	RR COMB RH	B	
2	<div></div> <div>S8281-E0D70</div>		FOR ALL MODEL

## CONNECTORS / CHASSIS SIDE

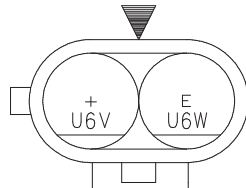
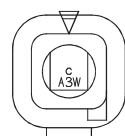
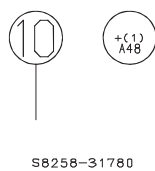
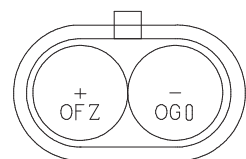
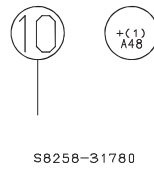
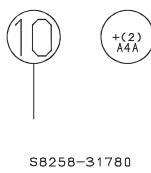
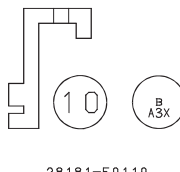
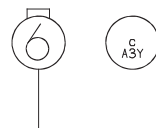
**POSITION : FRAME LH (EARTH)**

NO.	PARTS NAME	CONN. COLOR	APPLICATION
	GRAND 1 / C - 1		
1	  S8258 - 31810A		FOR ALL MODEL
	GRAND 1 / C - 2		
2	  S8258 - 31820A		FOR ALL MODEL
	BATT GRAND		
3	  SZ591 - 08002		FOR ALL MODEL

**POSITION : BACK-UP ALARM**

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
4	GRAND CHA 1  # G4 Z12 S8258 - 31810A		FOR ALL MODEL	1	BACK-UP ALARM  S8258 - 06820A		FOR ALL MODEL
5	GRAND CHA 2  # BODY Z37 S8258 - 31820A		FOR ALL MODEL				

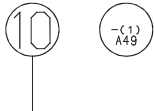
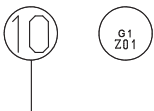
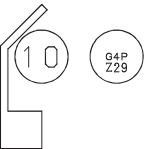
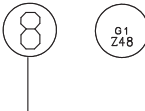
CONNECTORS / CHASSIS SIDE

POSITION : DEFF			POSITION : STARTER CABLE			POSITION : B TO B CABLE					
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	MN / D M / V	B	FOR DEFF LOCK		TO FR	B	FOR ALL MODEL		BATTERY 1		FOR ALL MODEL
1	 S8258 - 09250A			1	 S8258 - 06720B			1	 S8258-31780		
	M DIFF LOCK SW	B	FOR DEFF LOCK		BATTERY 2		FOR ALL MODEL		BATTERY 2		FOR ALL MODEL
2	 S8281-E0A40			2	 S8258-31780			2	 S8258-31780		
					STARTER B		FOR ALL MODEL				
				3	 28181-E0110						
					STARTER C		FOR ALL MODEL				
				4	 S8258 - 31680A						

CONNECTORS / CHASSIS SIDE

POSITION : BATTERY GROUND

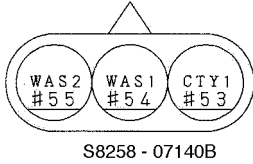
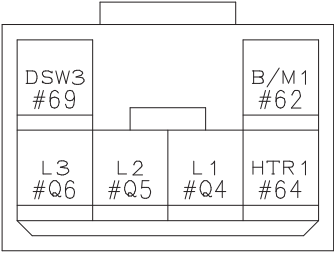
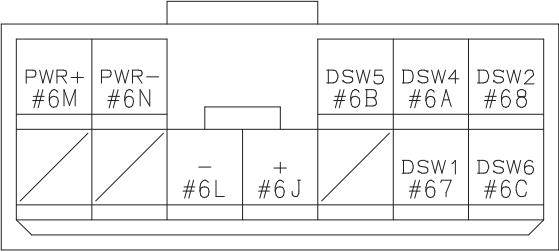
POSITION : CAB CHASSIS GROUND

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	BATTERY 1		FOR ALL MODEL		CAB GRAND (G3)		FOR ALL MODEL				
1	<div> S8258-31780</div>			1	<div> SR142-01120</div>						
	BATTERY GND				CHASS GRAND (G3)						
2	<div> 82675-E0200</div>		FOR ALL MODEL	2	<div> SR142-00920</div>		FOR ALL MODEL				



CONNECTORS / CAB SIDE  
WIRE to WIRE

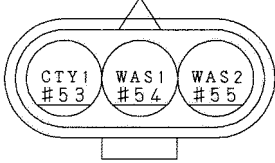
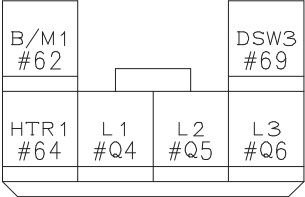
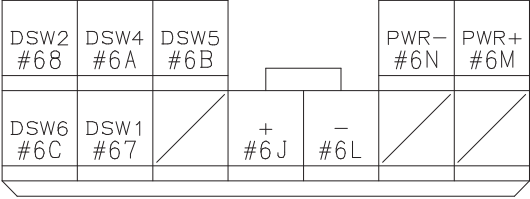
CAB MAIN HARNESS

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO FLOOR 3P	GR			TO DOOR LH 1				TO DOOR LH 2		
1			FOR ALL MODEL	2			FOR ALL MODEL	3			FOR ALL MODEL

FLOOR HARNESS

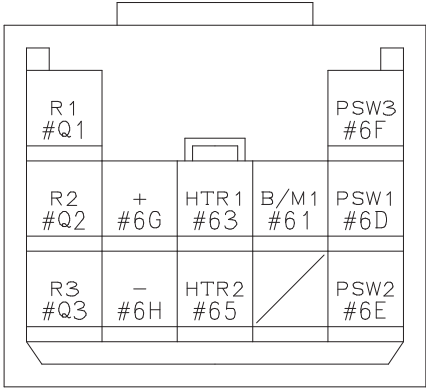
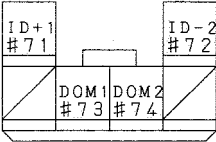
DOOR HARNESS (LH)

DOOR HARNESS (LH)

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO CAB MAIN	GR			TO CAB MAIN 1				TO CAB MAIN 2		
1			FOR ALL MODEL	1			FOR ALL MODEL	1			FOR ALL MODEL (DOOR LH)

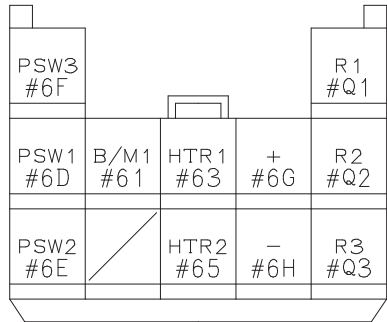
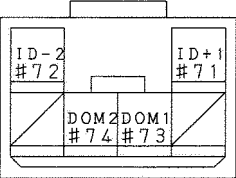
CONNECTORS / CAB SIDE  
WIRE to WIRE

CAB MAIN HARNESS

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO DOOR RH 1	O			TO ROOF						
4			FOR ALL MODEL	5			FOR ALL MODEL				
	S8256 - 02610A				82824-E0U10						

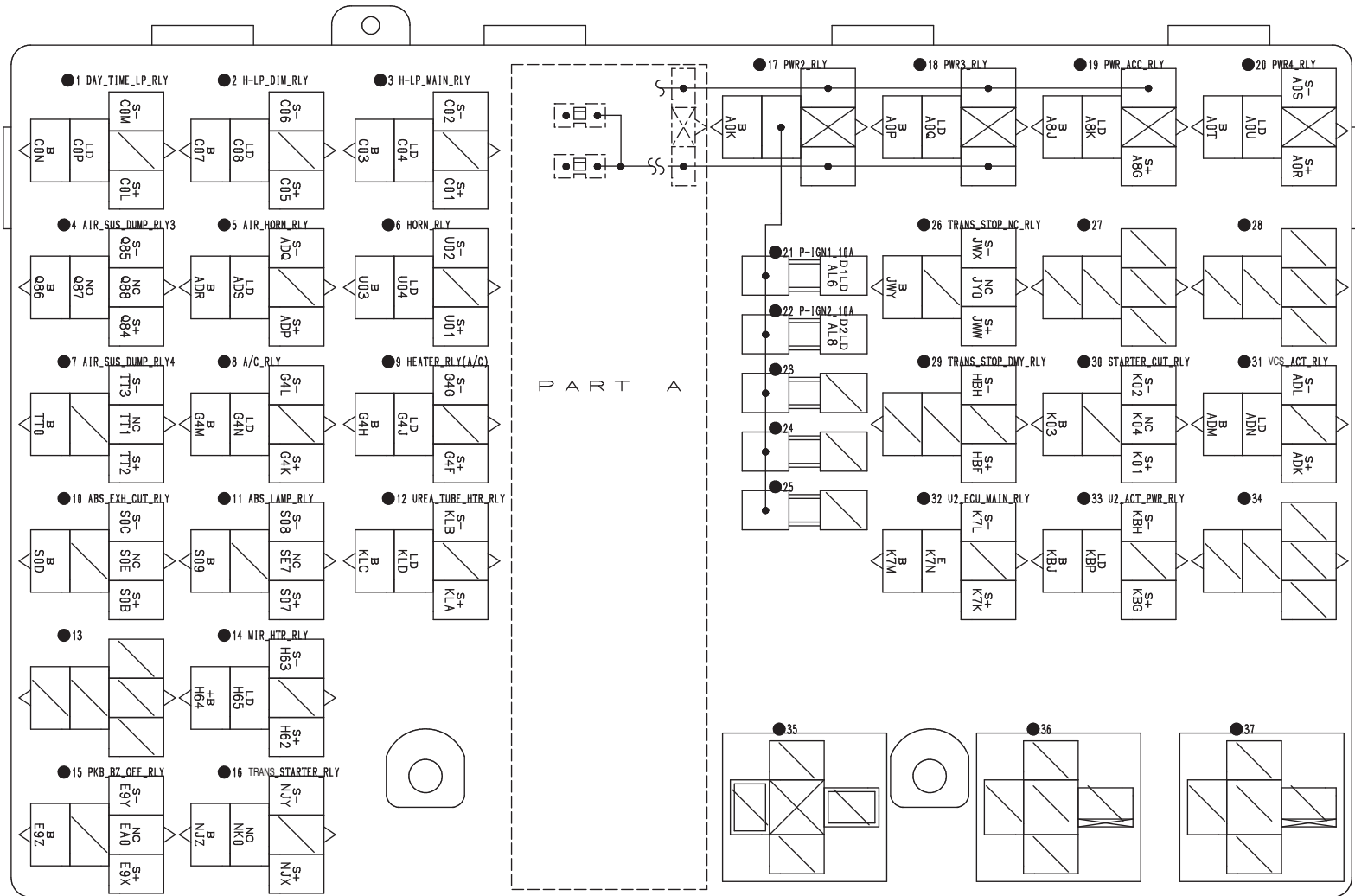
DOOR HARNESS (RH)

ROOF HARNESS

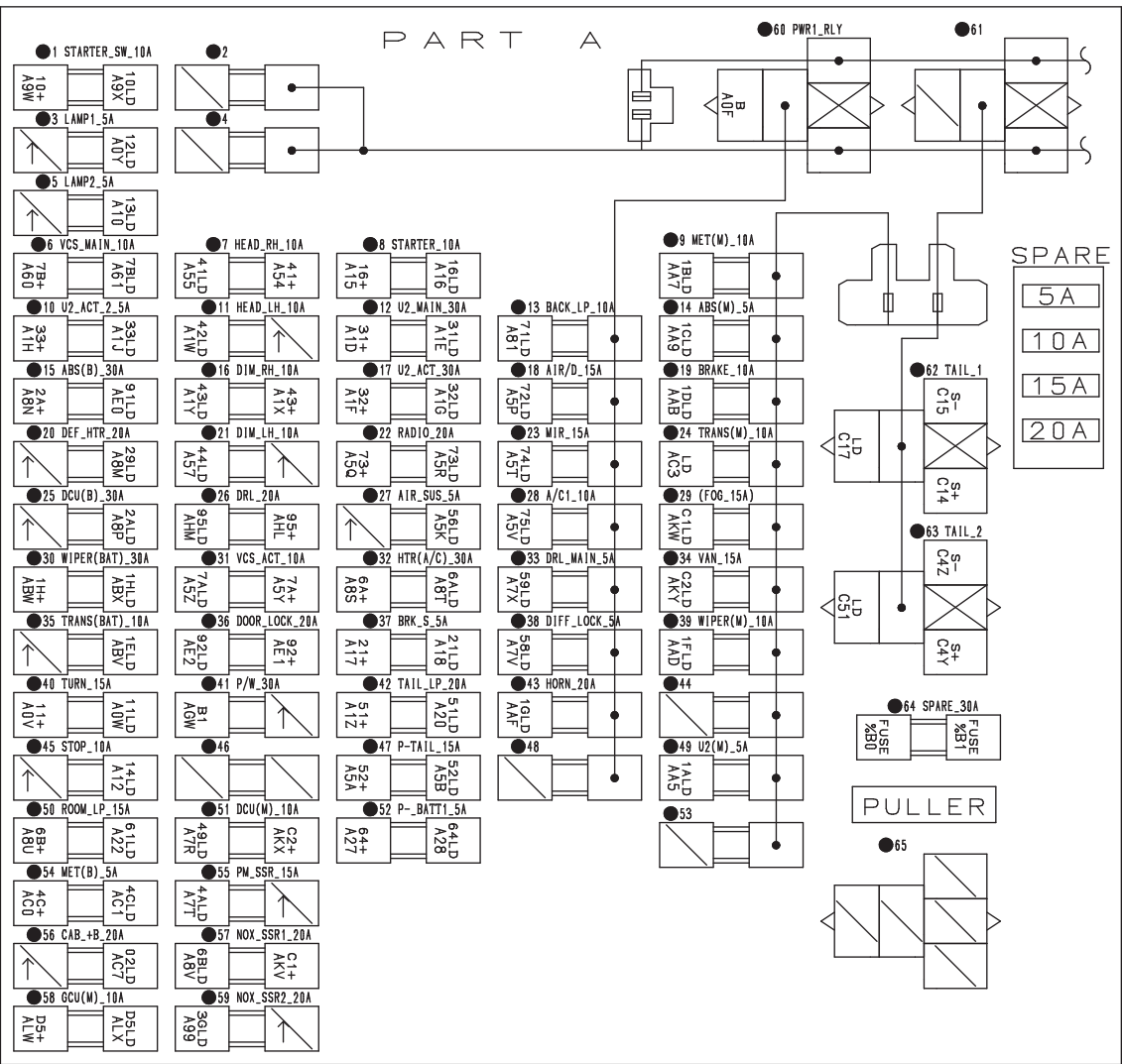
NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO CAB MAIN	O			TO CAB MAIN						
1			FOR ALL MODEL (DOOR RH)	1			FOR ALL MODEL				
	S8256 - 02620A				S8258 - 06050A						

CONNECTORS / CAB SIDE

RELAY AND FUSE BLOCK

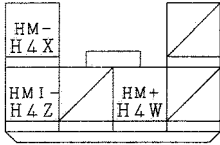
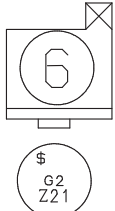
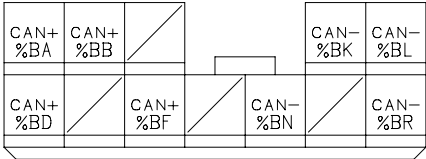
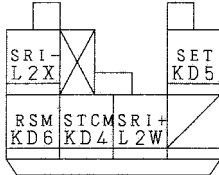
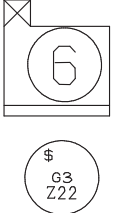
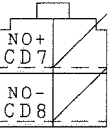
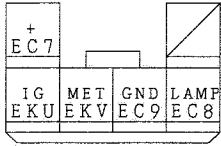
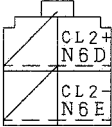
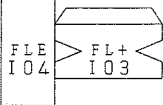
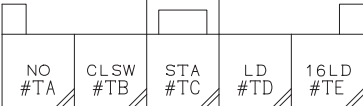
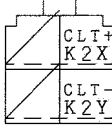
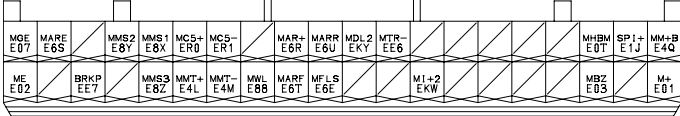


S8261 - 01360B



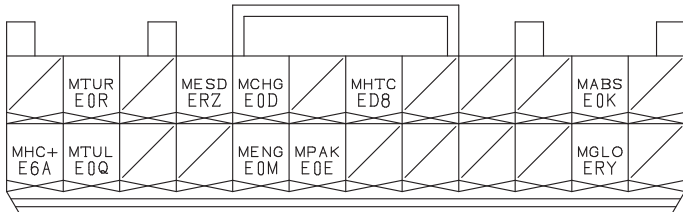
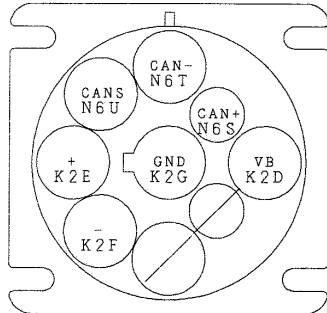
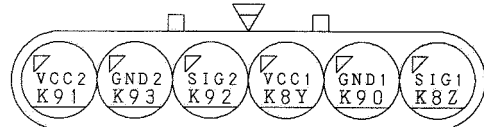
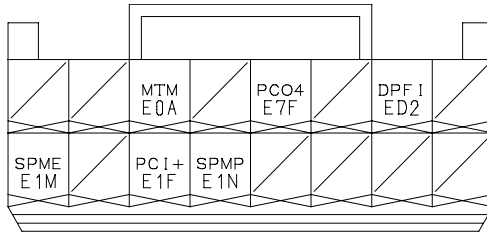
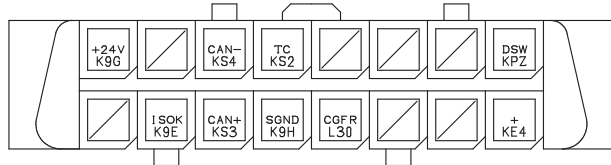
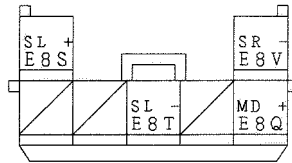
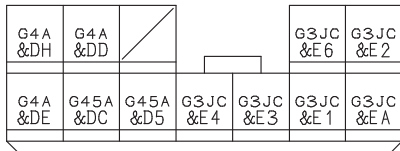
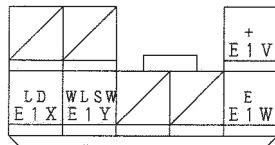
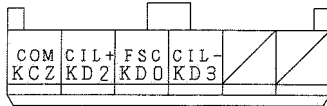
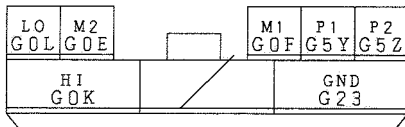
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	MIRROR HEATER SW				GRAND DR1				CAN J / C		
1	 82824-E0U10		FOR ALL MODEL	5	 S8258-31670A		FOR ALL MODEL	9	 82824-E0U90		FOR ALL MODEL
	SET RESUME SW	BR			GRAND DR2				STOP LP SW	B	
2	 82824-E0V10		FOR ALL MODEL	6	 S8258-31640A		FOR ALL MODEL	10	 S8256-03030A		FUR FULL AIR BRAKE
	RHEOSTAT	GR			CLT INT / L SW	DG			FR SPEAKER LH	B	
3	 82824-E0U10		FOR ALL MODEL	7	 S8256-03030A		FOR MTM (CLUTCH INTER LOCK)	11	 S8258-08610A		FOR ALL MODEL
	TO 82131				EXH CLT SW				COMB METER 40P	B	
4	 82560-2550A		FOR MTM	8	 S8256-03030A		FOR MTM	12	 82824-E0P30		FOR ALL MODEL

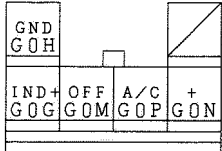
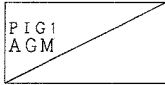
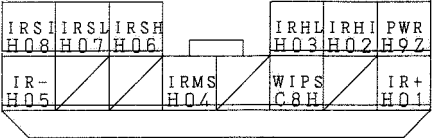
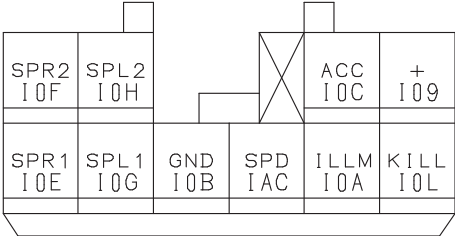
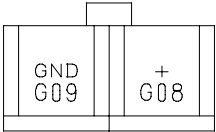
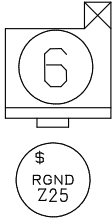


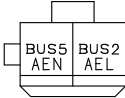
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	COMB METER 24P	B	FOR ALL MODEL		DIAG	B	FOR ALL MODEL		ACCEL SSR	B	FOR ALL MODEL
13	 82824-E0P40		FOR ALL MODEL	17	 S8256 - 01920A		FOR ALL MODEL	20	 S8256 - 03300A		FOR ALL MODEL
14	 82824-E0P50			FOR ALL MODEL	18	 S8256 - 03130A			FOR ALL MODEL	21	
15	 S8256 - 01100A		FOR ALL MODEL		19	 82824-E0U90		FOR ALL MODEL		22	 82824-E0U80
16	 S8256 - 04080A			FOR ALL MODEL						23	 S8256 - 04480A
	COMB METER 16P	B			DLC3	B				CIG LIGHTER	
	MULTI IND SW	B		J / C EARTH				COOLANT WRN RLY			
	AUTO CRUISING SW	B						BLOWER SW	B		

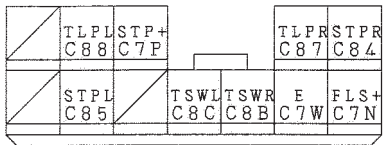
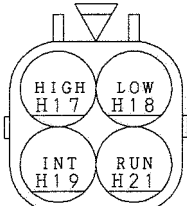
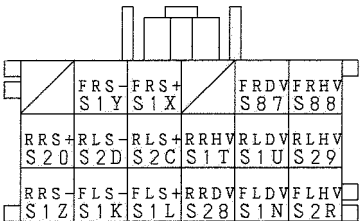
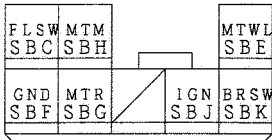
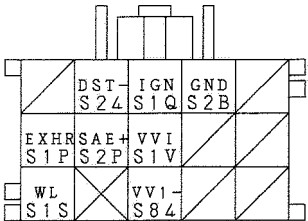
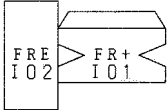
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	A / C SW				POWER IGN				WIPER RLY	B	
24	 S8256 - 02400A		FOR ALL MODEL	28	 SZ591 - 04002		FOR ALL MODEL	32	 S8258 - 05820A		FOR ALL MODEL
	AUDIO				BLOWER MOTOR	B					
25	 82824-E0V20		FOR ALL MODEL	29	 82824-E0T40		FOR ALL MODEL				
	GRAND AUDIO				R&F / B 312						
26	 S8258 - 31670A		FOR ALL MODEL	30	 S8258 - 08460A		FOR ALL MODEL				
	POWER BATTERY				R&F / B 090						
27	 SZ591 - 04002		FOR ALL MODEL	31	 82824-E0U40		FOR ALL MODEL				

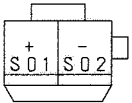
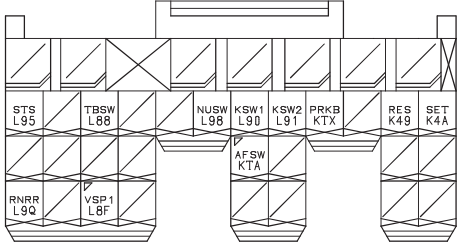
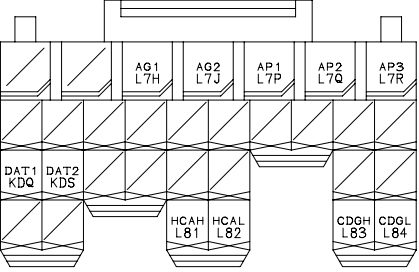
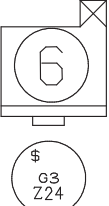
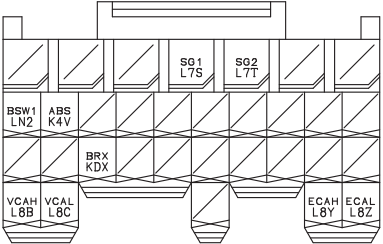
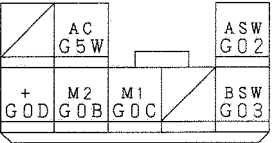
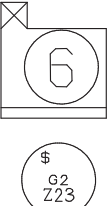
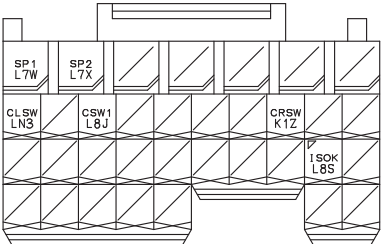
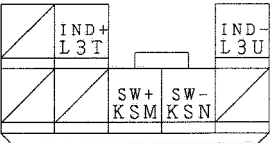
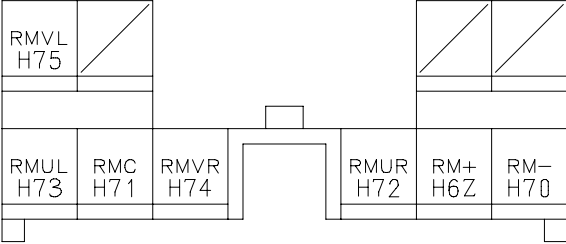
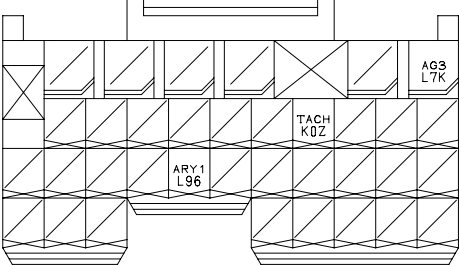
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	STOP&TURN CONTROLLER	B			WIPER MOTOR				ABS ECU F	GR	
33	 82824 - E0U90		FOR ALL MODEL	36	 S8258 - 08350B		FOR ALL MODEL	37	 S8258 - 09480A		FOR ALL MODEL
	MONITOR MODULE	GR							ABS ECU E	B	
34	 82824 - E0U80		FOR HYDRAULIC BRAKE					38	 S8258 - 09490A		FOR FULL AIR BRAKE
	FR SPEAKER RH	B									
35	 S8258 - 08610A		FOR ALL MODEL								

CONNECTORS / CAB SIDE

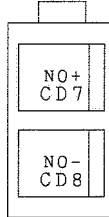
INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	ABS DIAG SW	B			VCS ECU 35P A				VCS ECU 31P		
39	 S8256 - 04100A		FOR FULL AIR BRAKE	43	 82824-E0090		FOR ALL MODEL	47	 82824-E0060		FOR ALL MODEL
	GRAND AS1				VCS ECU 32P	B			HEATER&COOLER UNIT	B	
40	 S8258 - 31670A		FOR ALL MODEL	44	 82824-E0070		FOR ALL MODEL	48	 82824-E0U80		FOR ALL MODEL
	GLAND AS2				VCS ECU 34P	B			DPR REFRESH SW	B	
41	 S8258 - 31640A		FOR ALL MODEL	45	 82824-E0080		FOR ALL MODEL	49	 82824-E0U80		FOR ALL MODEL
	RIM MIRROR SW				VCS ECU 35P B	B					
42	 82824-E0T70		FOR ALL MODEL	46	 82824-E0100		FOR ALL MODEL				



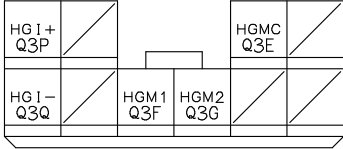

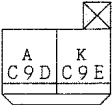
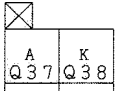
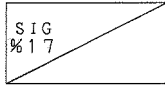
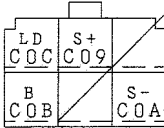
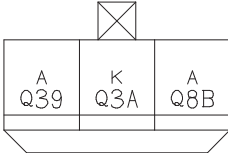
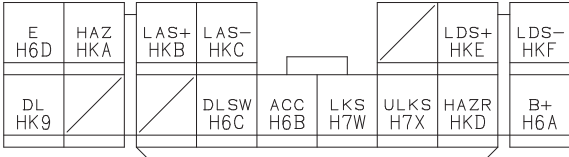

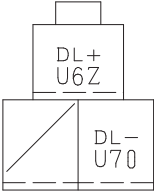
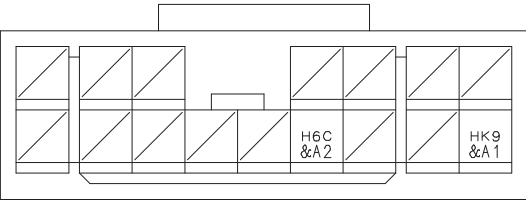
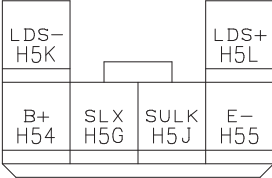
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

PARTS NAME			CONN. COLOR			APPLICATION		
STOP LP SW (HYD)			B			FOR HYDRAULIC BRAKE		
<div> S8282 - 81310A</div>								

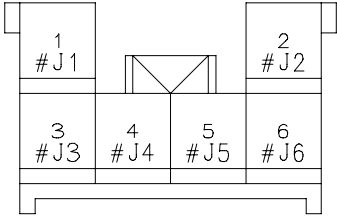
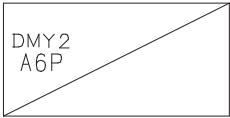


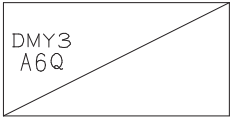

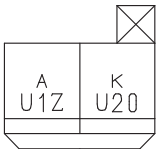
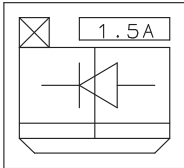
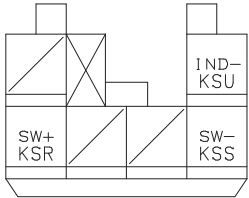


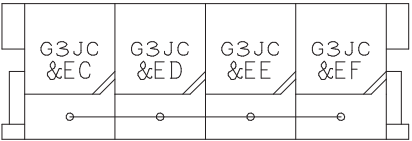
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	AIR SUS DUMP SW		FOR REAR AIR SUSPEN- SION		SUB STARTER		FOR ALL MODEL		STP ATM DIODE	B	FOR ATM ALLISON 2200 / 2500 3000 / 3500
57	 S8258 - 07210A			61	 SZ591 - 04002			65	 S8256 - 03800A		
	AIR SUS DUMP DIO1	GR	FOR REAR AIR SUSPEN- SION		NEUT SIG		FOR ALL MODEL		STOP LAMP RLY		FOR ALL MODEL
58	 S8258 - 04860A			62	 SZ591 - 04002			66	 S8256 - 03050A		
	AIR SUS DUMP DIO2	B	FOR REAR AIR SUSPEN- SION WITH HIGHT CONTROL		KEYLESS ENTRY		FOR ALL MODEL		PTO SW1		FOR ALL MODEL
59	 S8256 - 04180A			63	 S8258 - 05970A			67	 SZ591 - 04002		
	DIFF LOCK SW	B	FOR DEFF LOCK		KEYLESS SHORT		FOR ALL MODEL		D/L CONTROLLER	B	FOR ALL MODEL
60	 S8256 - 03010A			64	 82824-E0T80			68	 82824-E0U10		

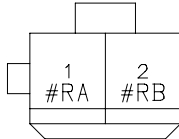
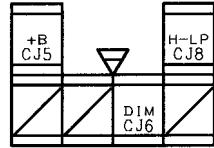
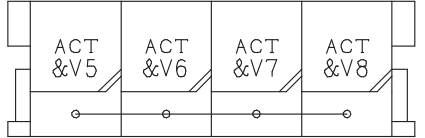
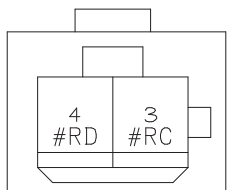
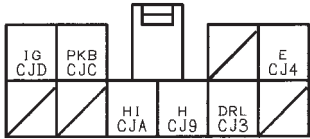
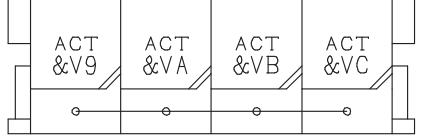
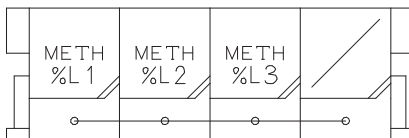
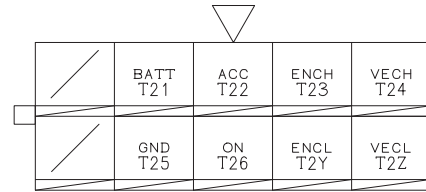
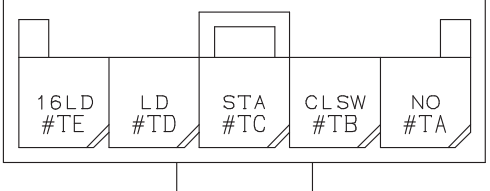
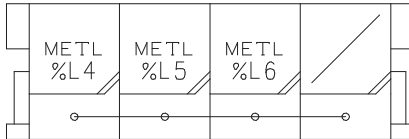
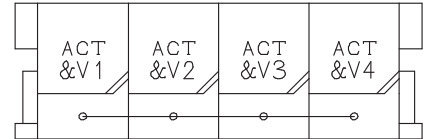
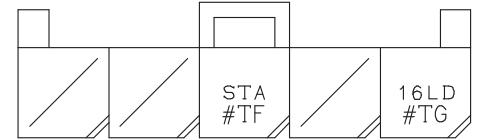
CONNECTORS / CAB SIDE

INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	OPT CONN CAB				PTO SW2				W / S EARTH 2		
69	 82824-E0K90		FOR ALL MODEL	72	 SZ591 - 04002		FOR ALL MODEL	76	 SPLCE-00001		FOR ALL MODEL
70	IDLE UP SIG  SZ591 - 04002	B	FOR ALL MODEL	73	PTO CUT RLY  SZ591 - 04002		FOR ALL MODEL	77	W / S EARTH 3  SPLCE-00001		FOR ALL MODEL
71	TRANS STOP NC DIODE  S8256 - 03800  S8590 - 21200	B	FOR ALL MODEL	74	ECO RUN SW  82824-E0V10	BR	FOR ALL MODEL	78	W / S EARTH 4  SPLCE-00001		FOR ALL MODEL
				75	W / S EARTH 1  SPLCE-00001		FOR ALL MODEL	79	J / C EARTH 4P  S8255 - 01360A		FOR ALL MODEL

CONNECTORS / CAB SIDE

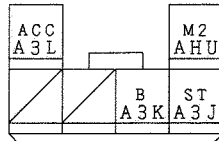
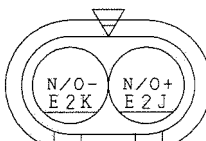
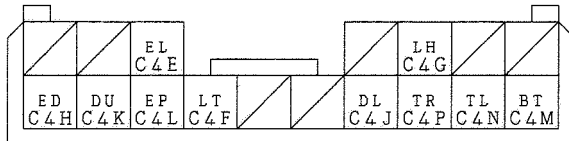
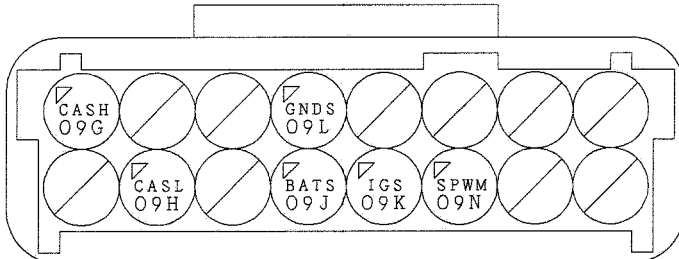
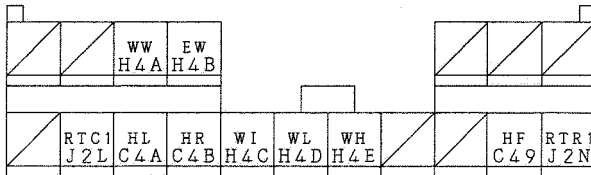
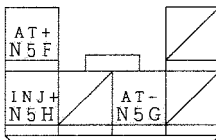
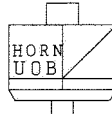
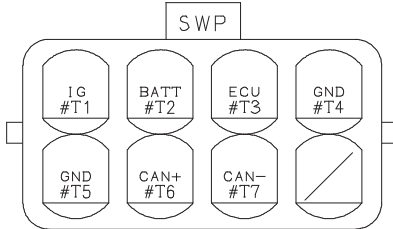
INSTRUMENT PANEL

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	TO EARTH 1				DRL ECU (1)	B			ACT J/C2		
80	 82824-E0U40		FOR ALL MODEL	84	 S8258 - 07380A		FOR ALL MODEL	88	 S8255 - 01360		FOR ALL MODEL
	TO EARTH 2				DRL ECU (2)	B			ACT J/C3		
81	 S8258 - 07320A		FOR ALL MODEL	85	 82824-E0Y50		FOR ALL MODEL	89	 S8255 - 01360		FOR ALL MODEL
	CAN J / C 3 H				TELEMA CIRCUIT				TO 82223		
82	 S8255 - 01360A		FOR ALL MODEL	86	 S8281-E0M40		FOR ALL MODEL	90	 S8256 - 02540		FOR ALL MODEL
	CAN J / C 3 L				ACT J/C1				TRANS SHORT PIN		
83	 S8255 - 01360A		FOR ALL MODEL	87	 S8255 - 01360		FOR ALL MODEL	91	 S8256 - 02550		FOR ATM

CONNECTORS / CAB SIDE


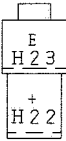
STEERING COLUMN

FLOOR CONSOLE

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
1	STARTER SW	B	FOR ALL MODEL	1	PKB SW	B	FOR HYDRAULIC BRAKE				
	 52824-E0U10	 S8256-02940A									
2	LIGHT&TURN SW	B	FOR ALL MODEL	2	SELECTOR	GR	FOR ALLISON 3000 / 3500				
	 S8258-09310A	 S8282-81600A									
3	WIPER&RETARDER SW		FOR ALL MODEL	3	ATM MODE SW		FOR ALLISON 2200 / 2500				
	 S8258-09320A	 82824-E0U10									
4	HORN SW		FOR ALL MODEL	4	TO 82236	GR	FOR ALL MODEL				
	 82824-E0U50	 S8256-03460									

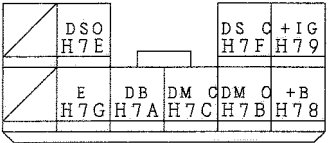
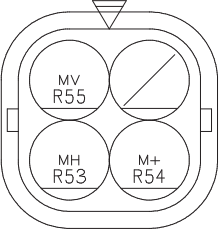
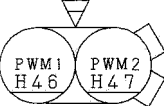
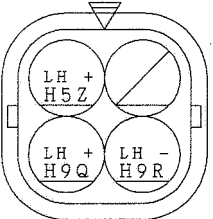
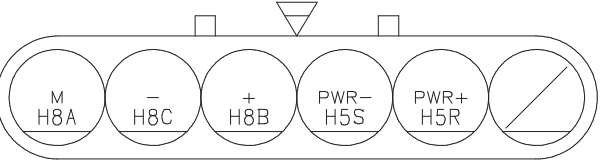
CONNECTORS / CAB SIDE

FLOOR

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	CTY SW FR L		FOR ALL MODEL								
1	<div> S8258 - 06170A</div>										
	CTY SW FR R										
2	<div> S8258 - 06170A</div>		FOR ALL MODEL								
3	<div> S8256 - 02990A</div>		FOR ALL MODEL								

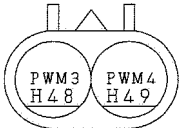
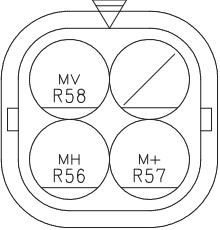

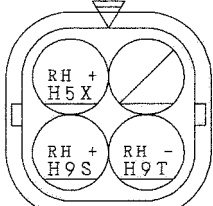
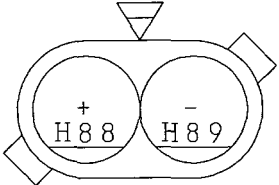
CONNECTORS / CAB SIDE

DOOR (LH)

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	D-MASTER SW				R / C MIRROR LH	B					
1	 S8258 - 07210A		WITH P / W	5	 S8258 - 09460A		FOR ALL MODEL				
	P / W MTR (DR)	GR									
2	 S8258 - 09420A		FOR ALL MODEL								
	HEAT&LIGHT MIR LH										
3	 S8258 - 09460A		FOR ALL MODEL								
	DOOR LOCK (DR) SW	B									
4	 S8256 - 03300A		FOR ALL MODEL								

CONNECTORS / CAB SIDE


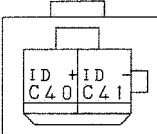
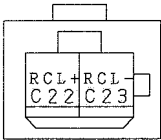
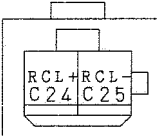
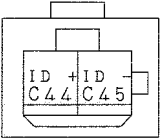

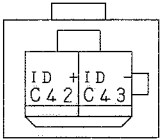
DOOR (RH)

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	P / W MTR (AS)	B			R / C MIRROR RH	B					
1	 S8256 - 04400A		FOR ALL MODEL	5	 S8258 - 09460A		FOR ALL MODEL				
	P-SUB SW										
2	 S8258 - 06250A		WITH P / W								
	HEAT&LIGHT MIR RH										
3	 S8258 - 09460A		FOR ALL MODEL								
	DOOR LOCK (AS)										
4	 S8258 - 07660B		FOR ALL MODEL								



CONNECTORS / CAB SIDE

ROOF

NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION	NO.	PARTS NAME	CONN. COLOR	APPLICATION
	DOME LAMP LH				ID LAMP RH	B					
1	 S8258 - 03360A		FOR ALL MODEL	5	 S8258 - 07320A		FOR ALL MODEL				
	ROOF C / L LH	B			ROOF C / L RH	B					
2	 S8258 - 07320A		FOR ALL MODEL	6	 S8258 - 07320A		FOR ALL MODEL				
	ID LAMP LH	B			DOME LAMP RH						
3	 S8258 - 07320A		FOR ALL MODEL	7	 S8258 - 03360A		FOR ALL MODEL				
	ID LAMP CTR	B									
4	 S8258 - 07320A		FOR ALL MODEL								

## 6. METRIC/U.S. CUSTOMARY UNIT EQUIVALENTS

Multiply:	by:	to get:	Multiply:	by:	to get:
<b>LINEAR</b>					
inches	x 25.4	= millimeters (mm)		x 0.03937	= inches
inches	x 2.54	= centimeters (cm)		x 0.3937	= inches
feet	x 0.3048	= meters (m)		x 3.281	= feet
<b>AREA</b>					
inches <sup>2</sup>	x 645.16	= millimeters <sup>2</sup> (mm <sup>2</sup> )		x 0.00155	= inches <sup>2</sup>
inches <sup>2</sup>	x 6.452	= centimeters <sup>2</sup> (cm <sup>2</sup> )		x 0.155	= inches <sup>2</sup>
feet <sup>2</sup>	x 0.0929	= meters (m <sup>2</sup> )		x 10.764	= feet <sup>2</sup>
<b>VOLUME</b>					
inches <sup>3</sup>	x 16387.0	= millimeters <sup>3</sup> (mm <sup>3</sup> )		x 0.000061	= inches <sup>3</sup>
inches <sup>3</sup>	x 16.387	= centimeters <sup>3</sup> (cm <sup>3</sup> )		x 0.06102	= inches <sup>3</sup>
inches <sup>3</sup>	x 0.01639	= liters (l)		x 61.024	= inches <sup>3</sup>
quarts	x 0.94635	= liters (l)		x 1.0567	= quarts
gallons	x 3.7854	= liters (l)		x 0.2642	= gallons
feet <sup>3</sup>	x 28.317	= liters (l)		x 0.03531	= feet <sup>3</sup>
feet <sup>3</sup>	x 0.02832	= meters <sup>3</sup> (m <sup>3</sup> )		x 35.315	= feet <sup>3</sup>
fluid oz	x 29.57	= milliliters (ml)		x 0.03381	= fluid oz
<b>MASS</b>					
ounces (av)	x 28.35	= grams (g)		x 0.03527	= ounces (av)
pounds (av)	x 0.4536	= kilograms (kg)		x 2.2046	= pounds (av)
tons (2000 lb)	x 907.18	= kilograms (kg)		x 0.001102	= tons (2000 lb)
tons (2000 lb)	x 0.90718	= tonne (t)		x 1.1023	= tons (2000 lb)
<b>FUEL ECONOMY</b>					
miles/gal	x 0.42514	= kilometers/liter (km/l)		x 2.3522	= miles/gal
gal/mile	x 2.3522	= liters/kilometer (l/km)		x 0.42514	= gal/mile
gal/mile	x 235.22	= liters/100 kilometers (l/100 km)		x 0.004251	= gal/mile
<b>POWER</b>					
horsepower	x 0.746	= kilowatts (kw)		x 1.34	= horsepower
ft-lbf/min	x 0.0226	= watts (W)		x 44.25	= ft-lbf/min
<b>TORQUE</b>					
pound-inches	x 0.11298	= newton-meters (N·m)		x 8.851	= pound-inches
pound-feet	x 1.3558	= newton-meters (N·m)		x 0.7376	= pound-feet
<b>VELOCITY</b>					
miles/hour	x 1.6093	= kilometers/hour (km/h)		x 0.6214	= miles/hour
kilometers/hr	x 0.27778	= meters/sec (m/s)		x 3.600	= kilometers/hr
miles/hour	x 0.4470	= meters/sec (m/s)		x 2.237	= miles/hour
<b>COMMON METRIC PREFIXES</b>					
	mega (M)	= 1,000,000		centi (c)	= 0.01
	kilo (k)	= 1,000		milli (m)	= 0.001
	hecto (h)	= 100		micro (μ)	= 0.000001