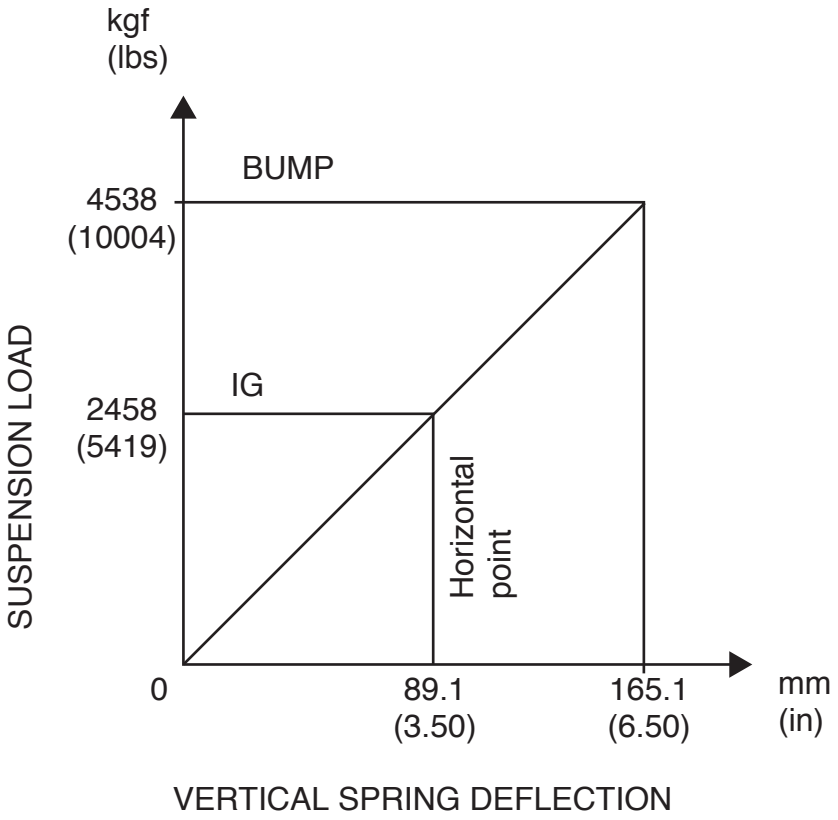
Chapter 12

OTHERS DATA

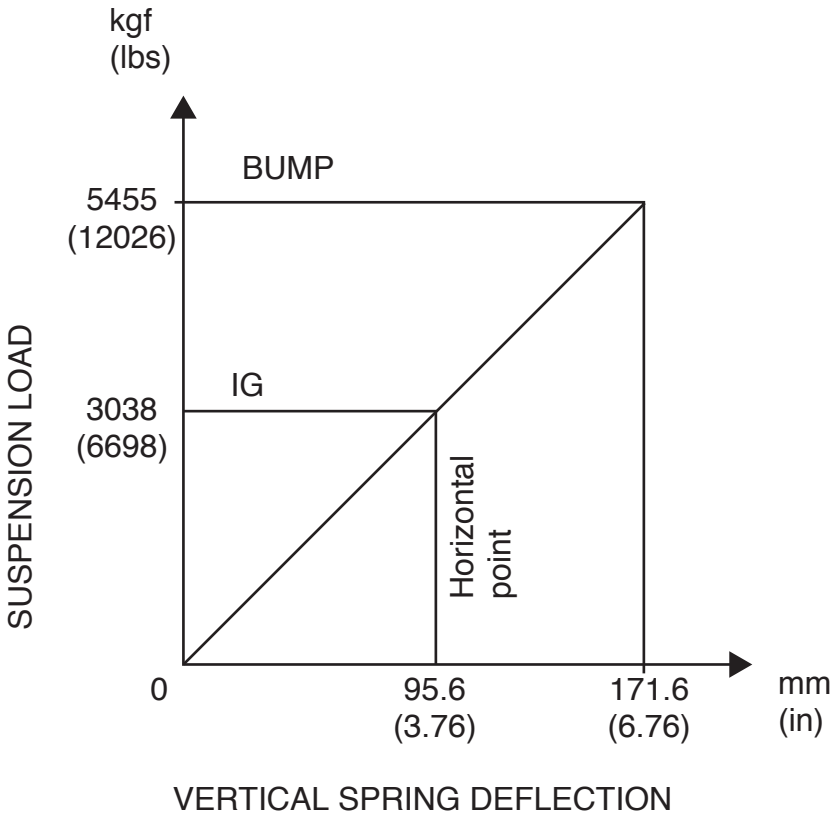
1. SUSPENSION DEFLECTION CHART
2. BRAKE PIPING DIAGRAM
3. AUXILIARY AIR LINE
4. ELECTRIC WIRING DIAGRAM
5. CONNECTORS
6. METRIC/U.S. CUSTOMARY UNIT EQUIVALENTS

1. SUSPENSION DEFLECTION CHART

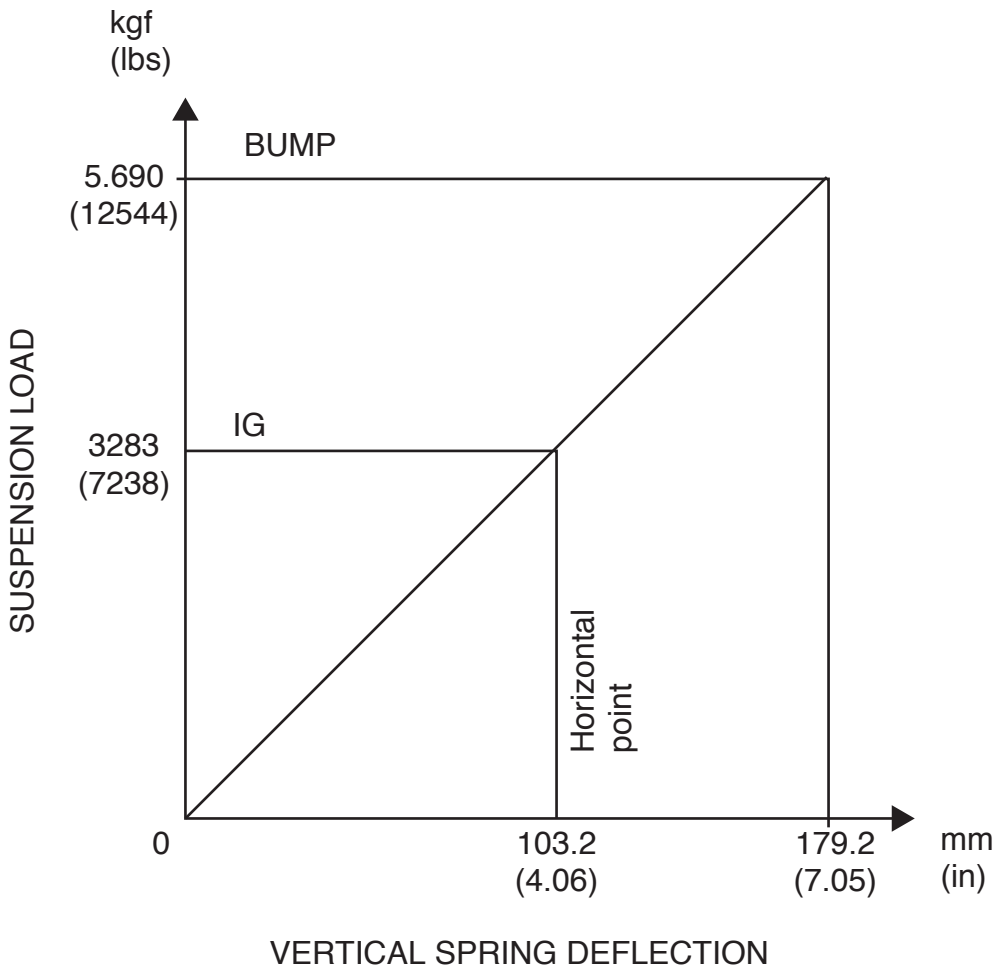
- **FRONT SPRING PER ONE SIDE**
  MODEL:NH
  CAPACITY:12000lbs(STD)
  K:27.6kgf/mm(1550lb/in)



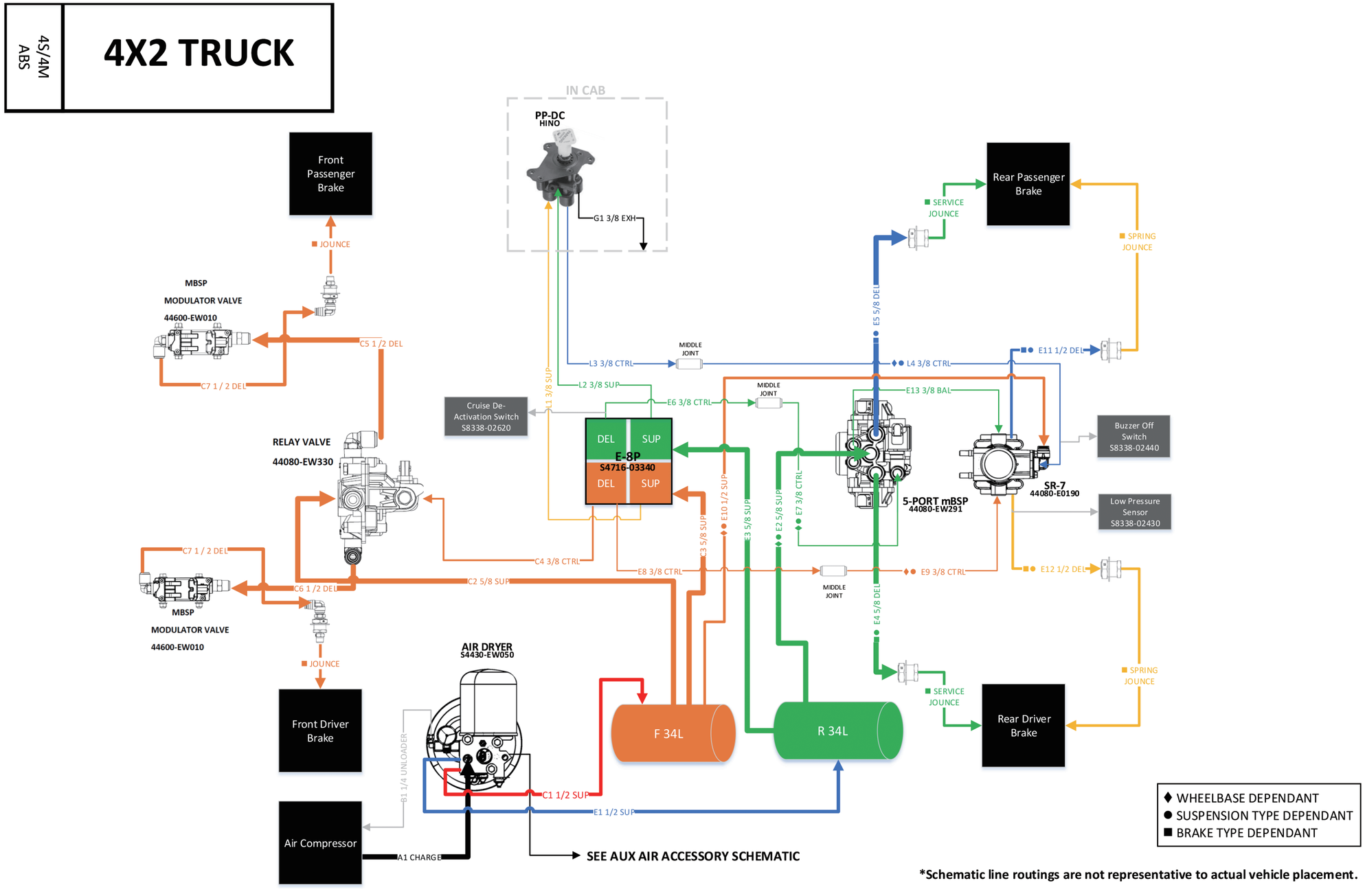
MODEL:ALL
CAPACITY:14600lbs(STD:NM, OPT: NH)
K:31.8kgf/mm(1780lb/in)



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



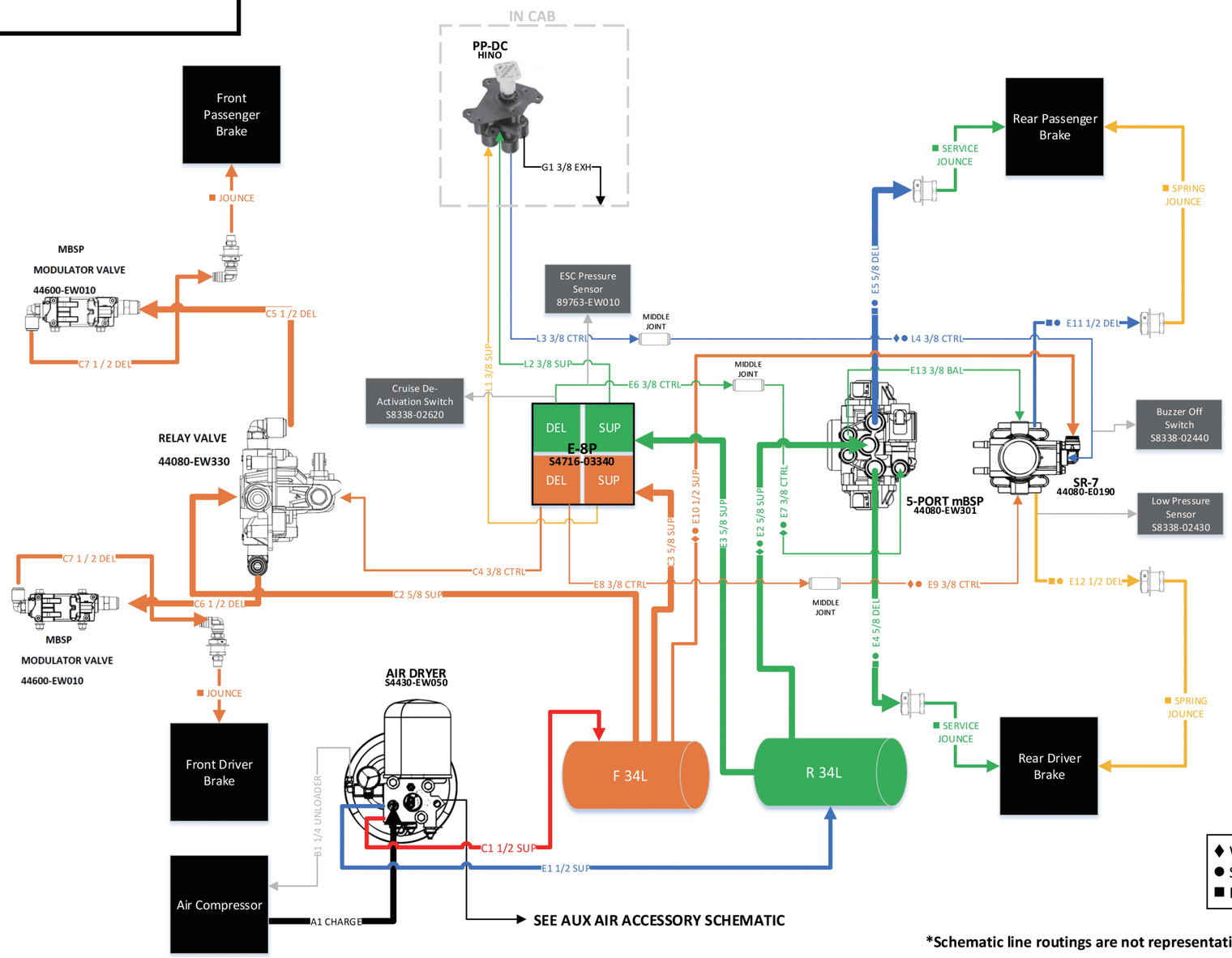
2. BRAKE PIPING DIAGRAM



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

4S/4M ABS/TCS/ESC

4X2 TRUCK

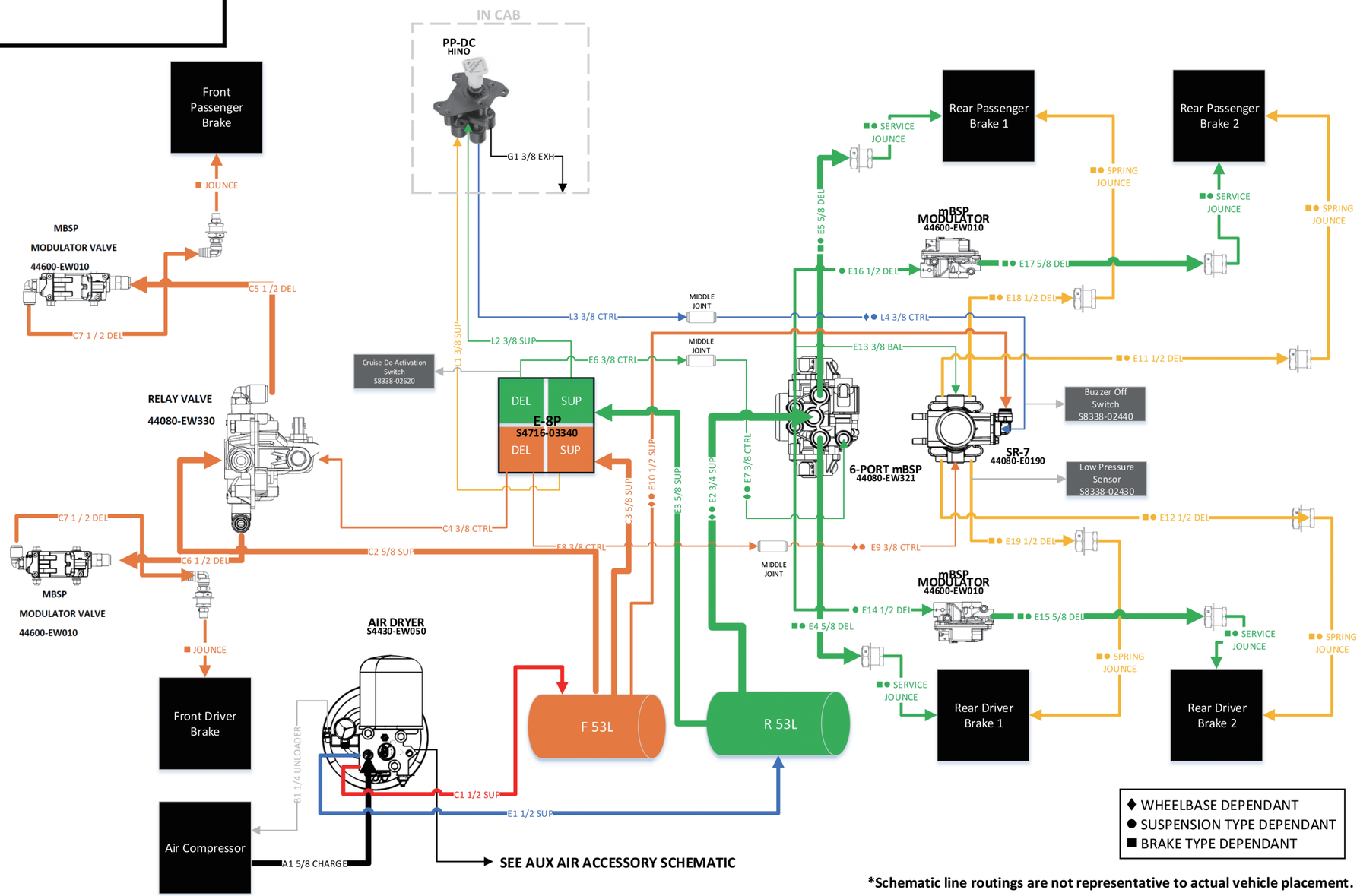


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT
■ BRAKE TYPE DEPENDANT

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

6S/6M ABS

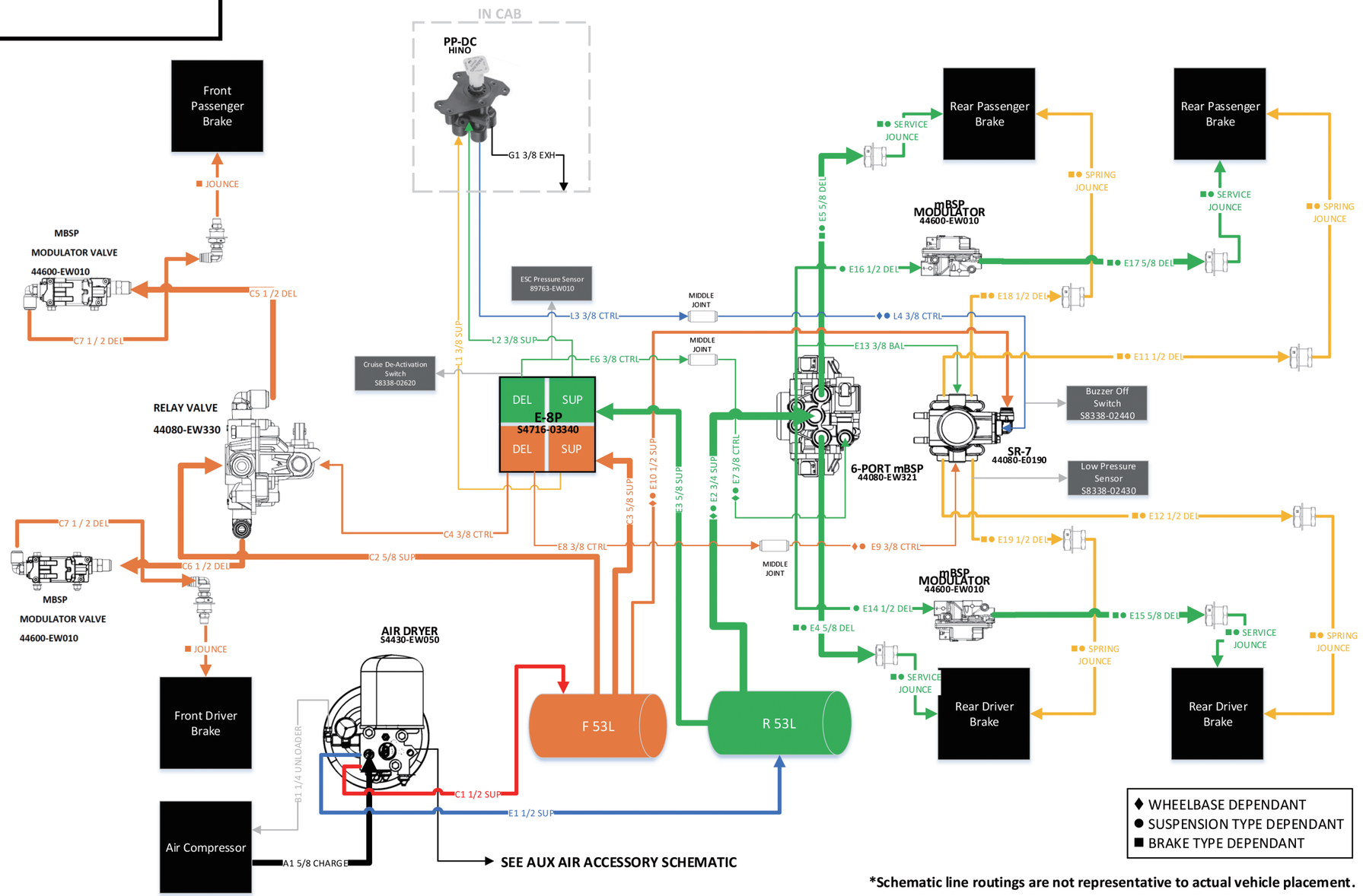
6X4 TRUCK



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

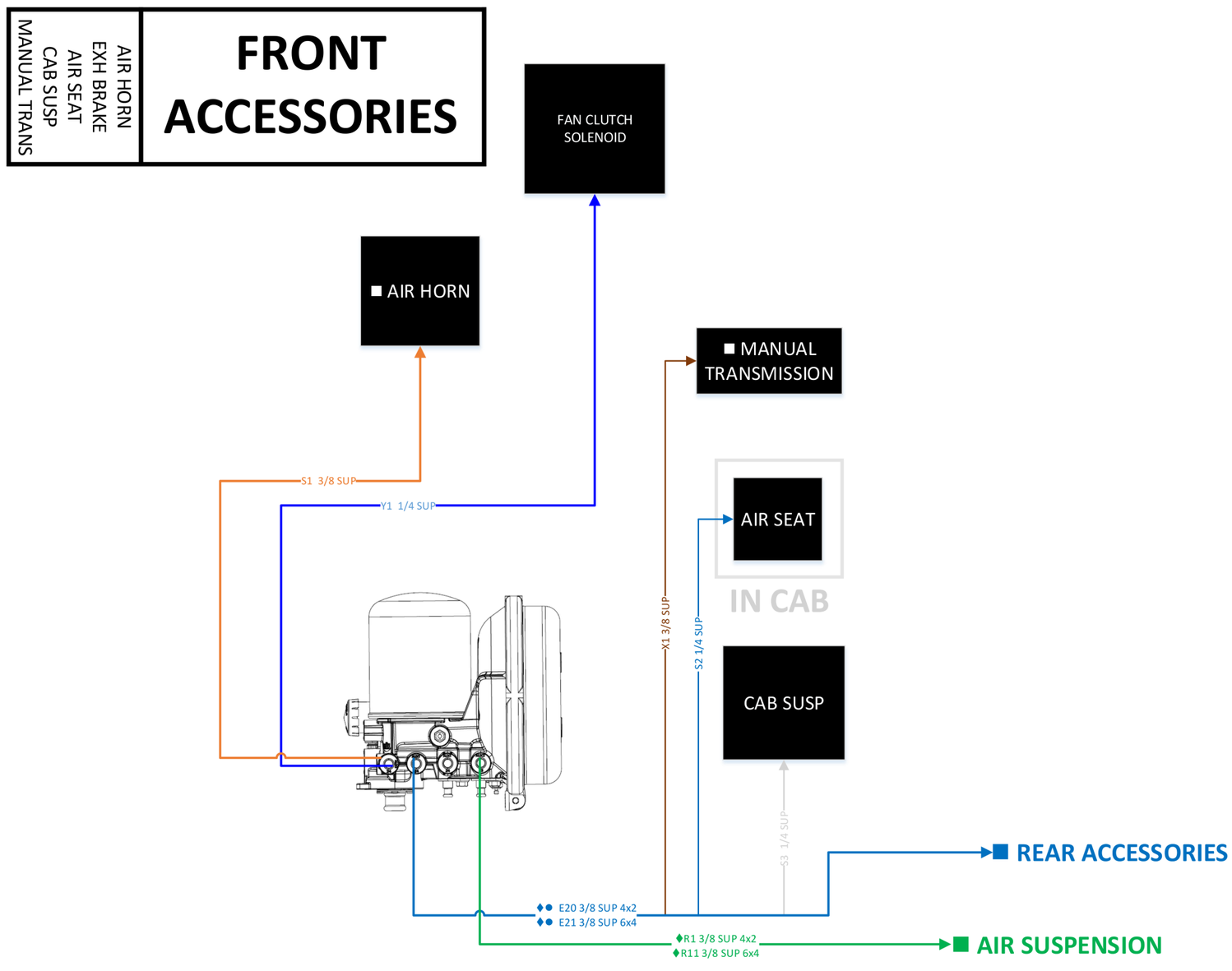
6S/6M ABS/TCS/ESC

6X4 TRUCK



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

3. AUXILIARY AIR LINE

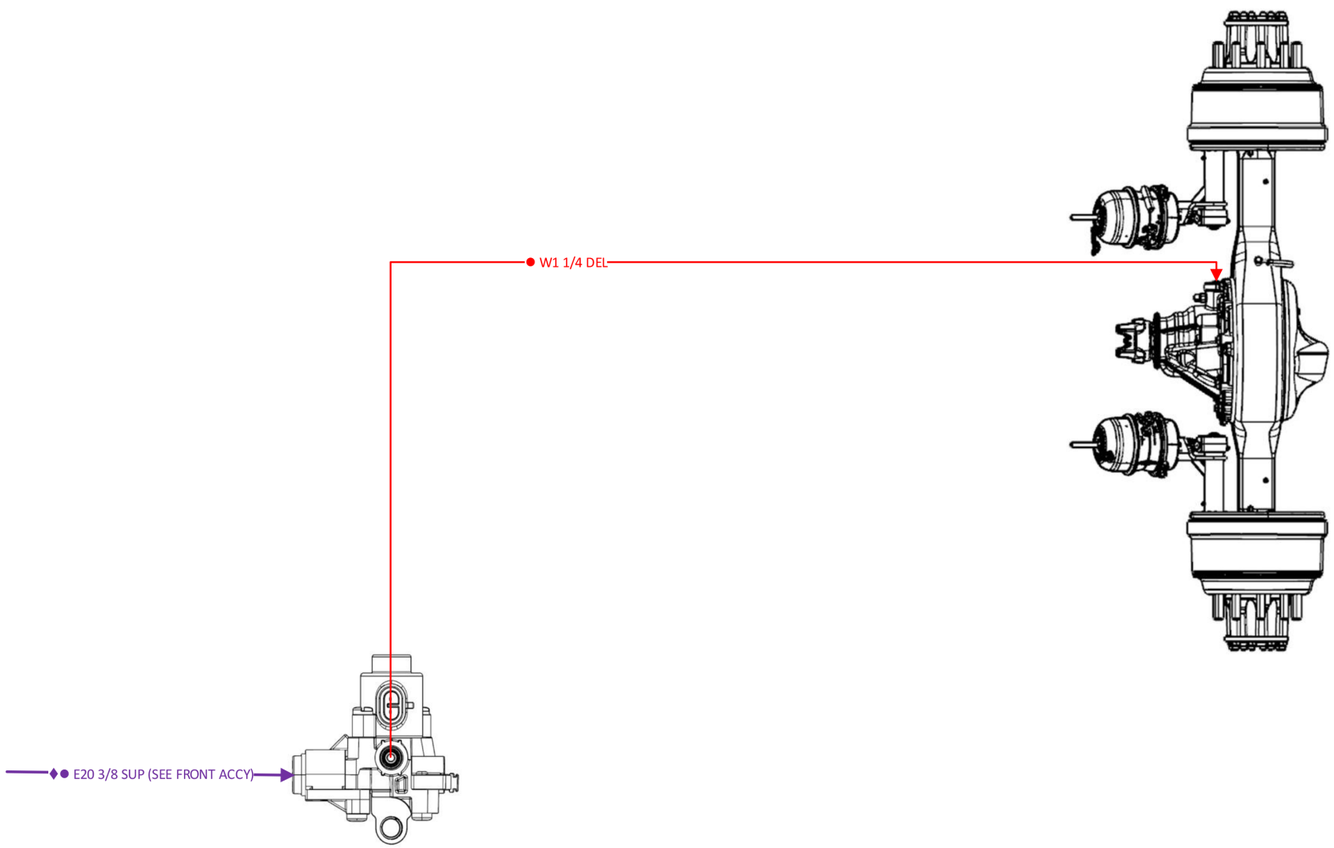


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT
■ OPTIONAL EQUIPMENT

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

LOCKING DIFF

4X2 REAR ACCESSORIES

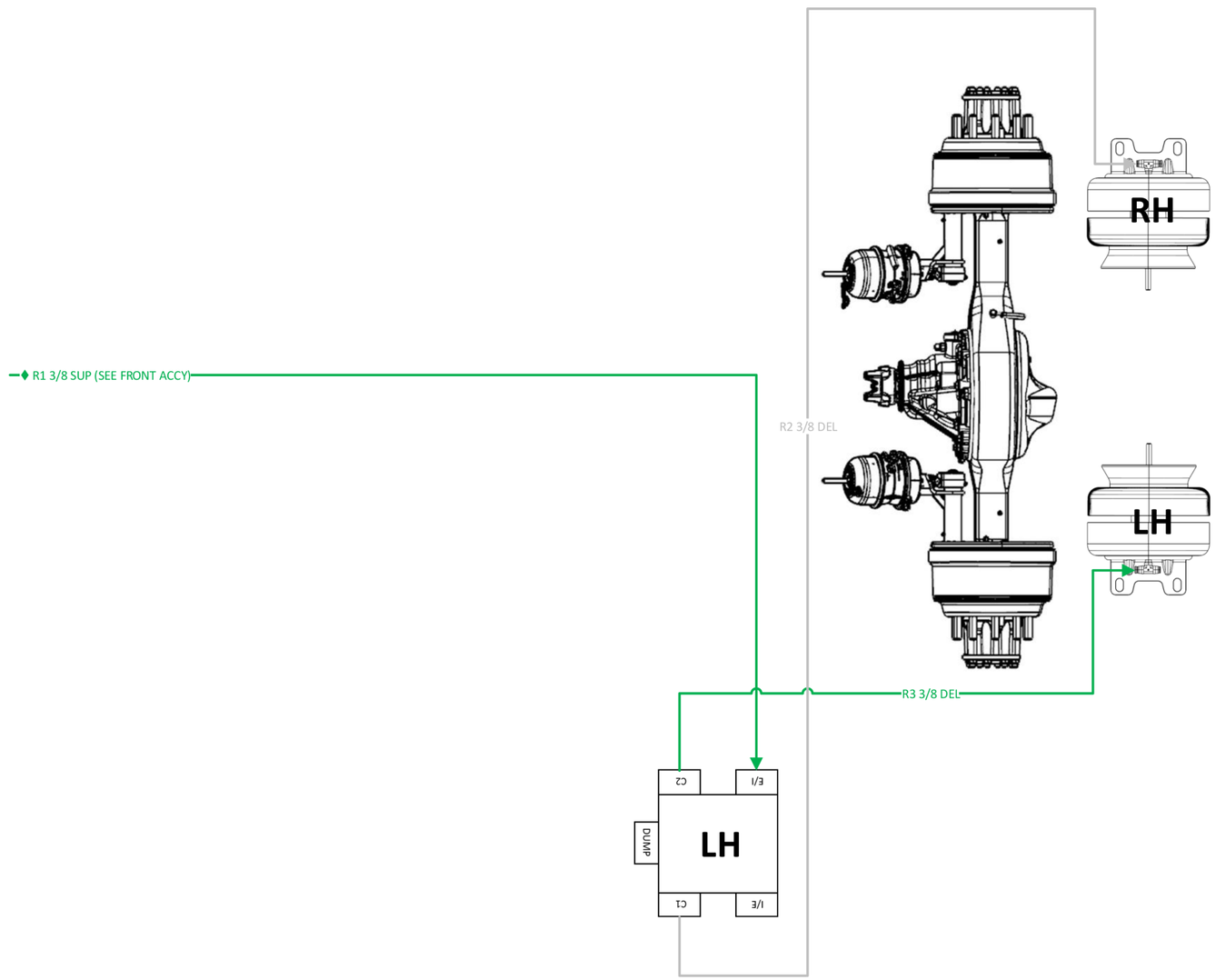


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

AIR SUSP (SINGLE LEVEL)

4X2 REAR ACCESSORIES

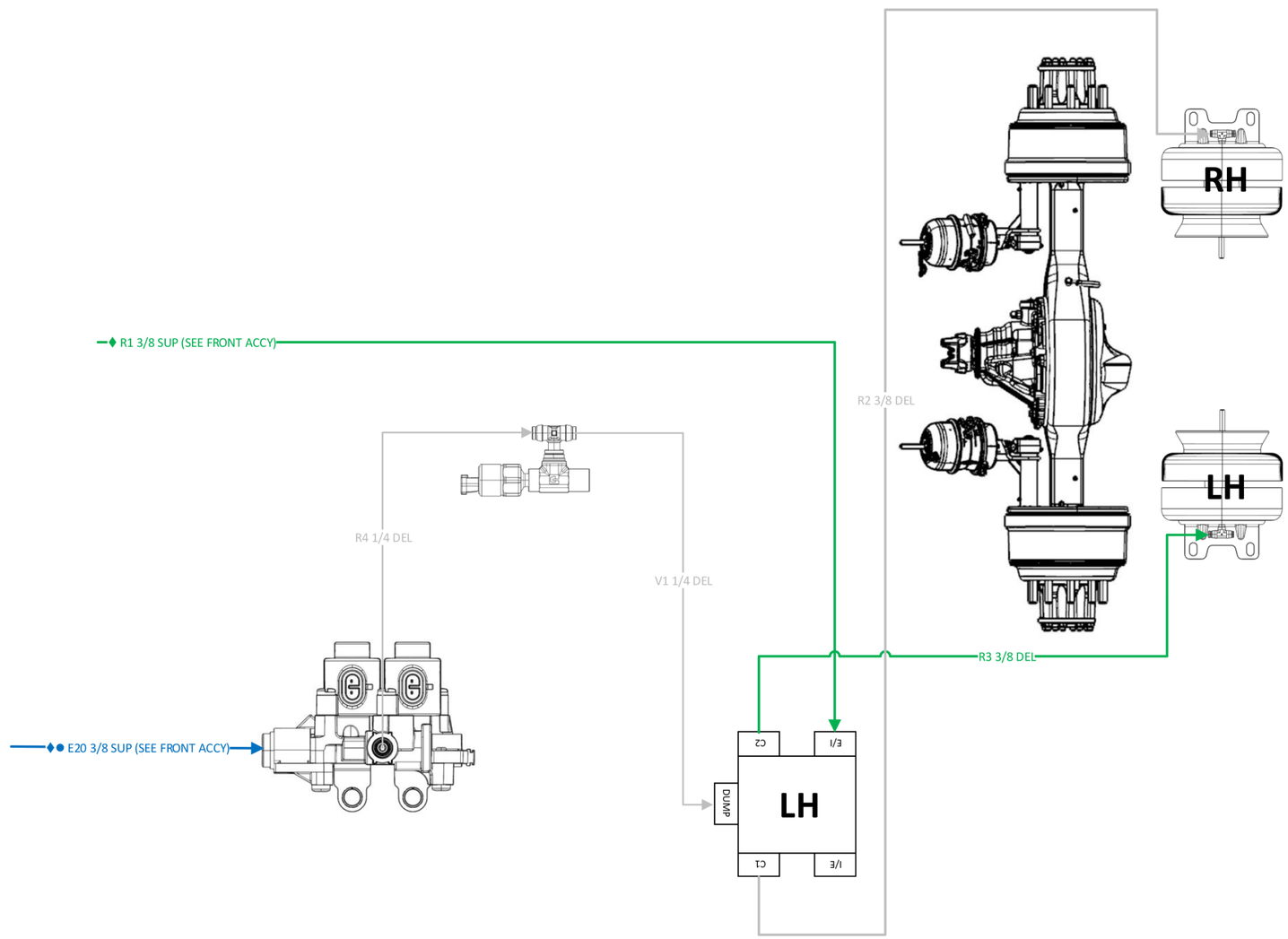


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

AIR SUSP (SINGLE LEVEL W/DUMP)

4X2 REAR ACCESSORIES

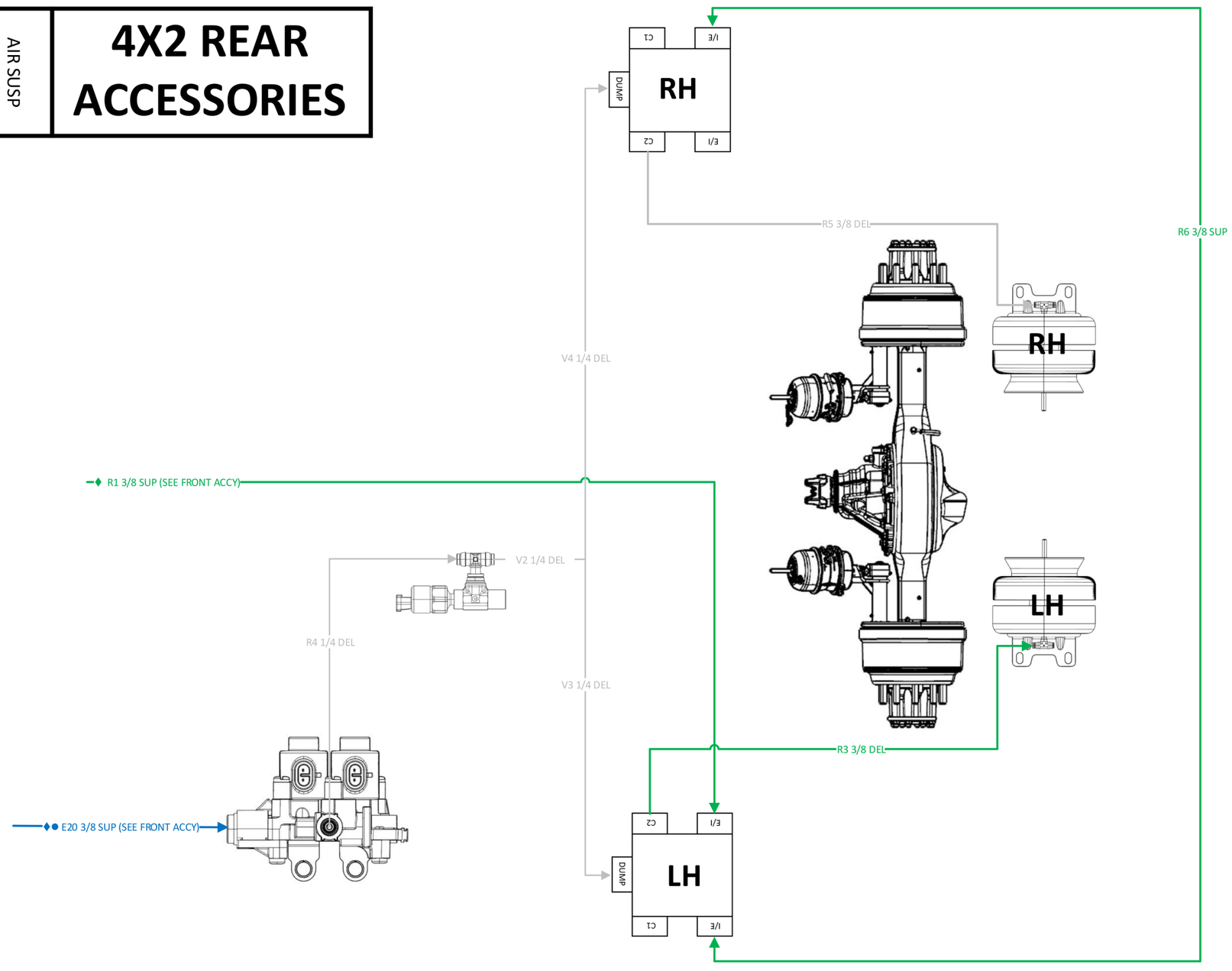


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

AIR SUSP (DUAL LEVEL W/DUMP)

4X2 REAR ACCESSORIES

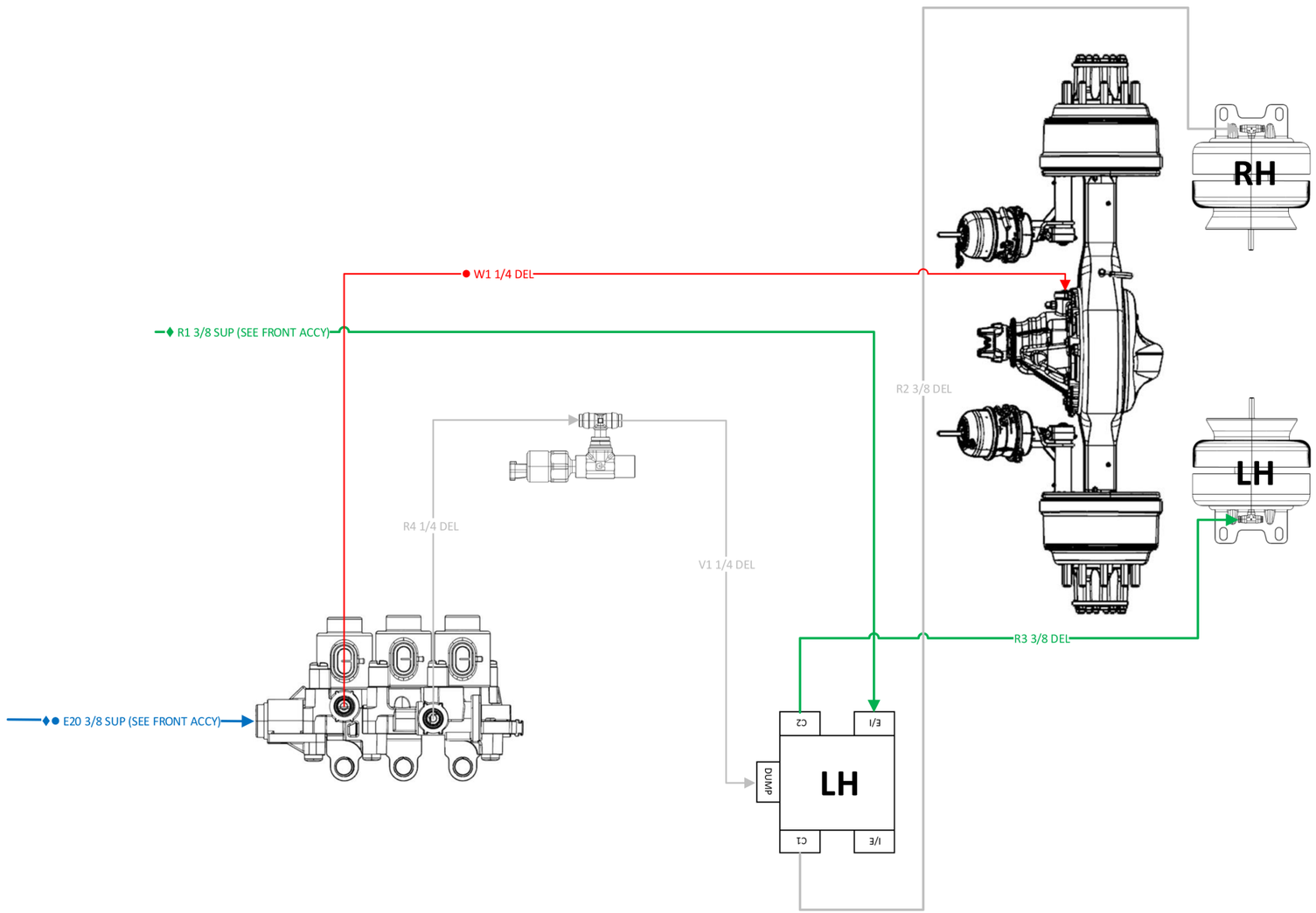


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

LOCKING DIFF
AIR SUSP
(SINGLE LEVEL
W/DUMP)

4X2 REAR ACCESSORIES

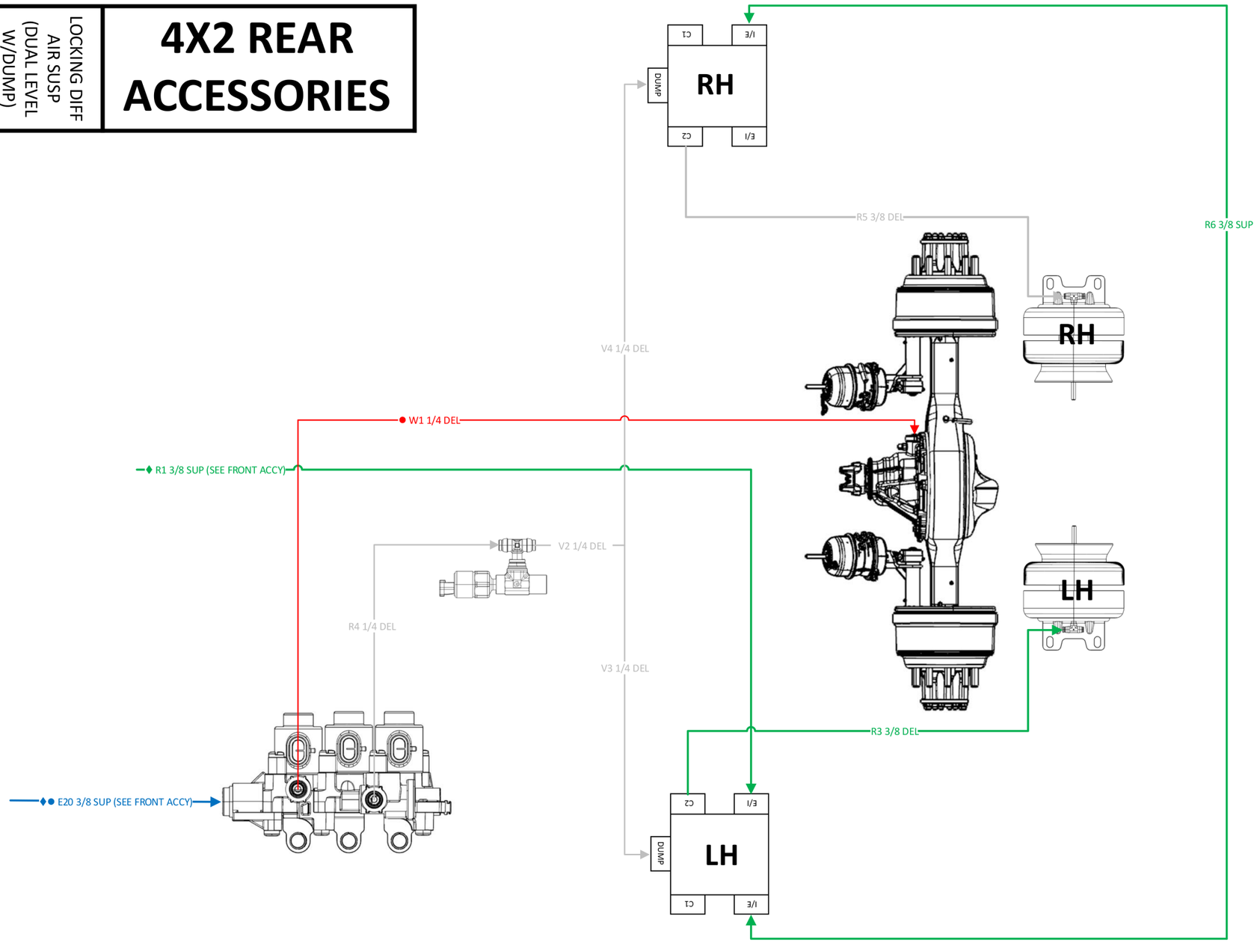


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

4X2 REAR ACCESSORIES

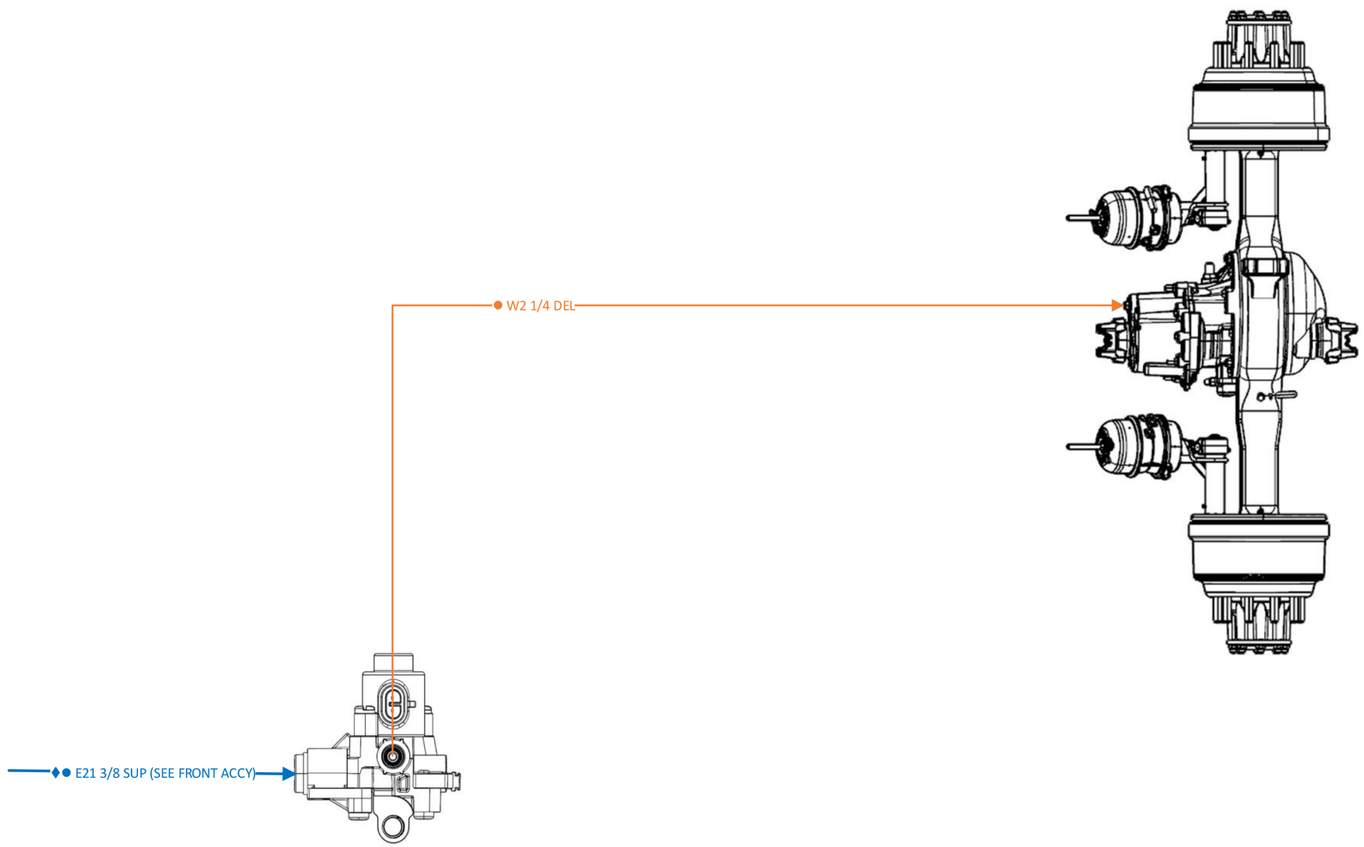
LOCKING DIFF
AIR SUSP
(DUAL LEVEL
W/DUMP)



♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

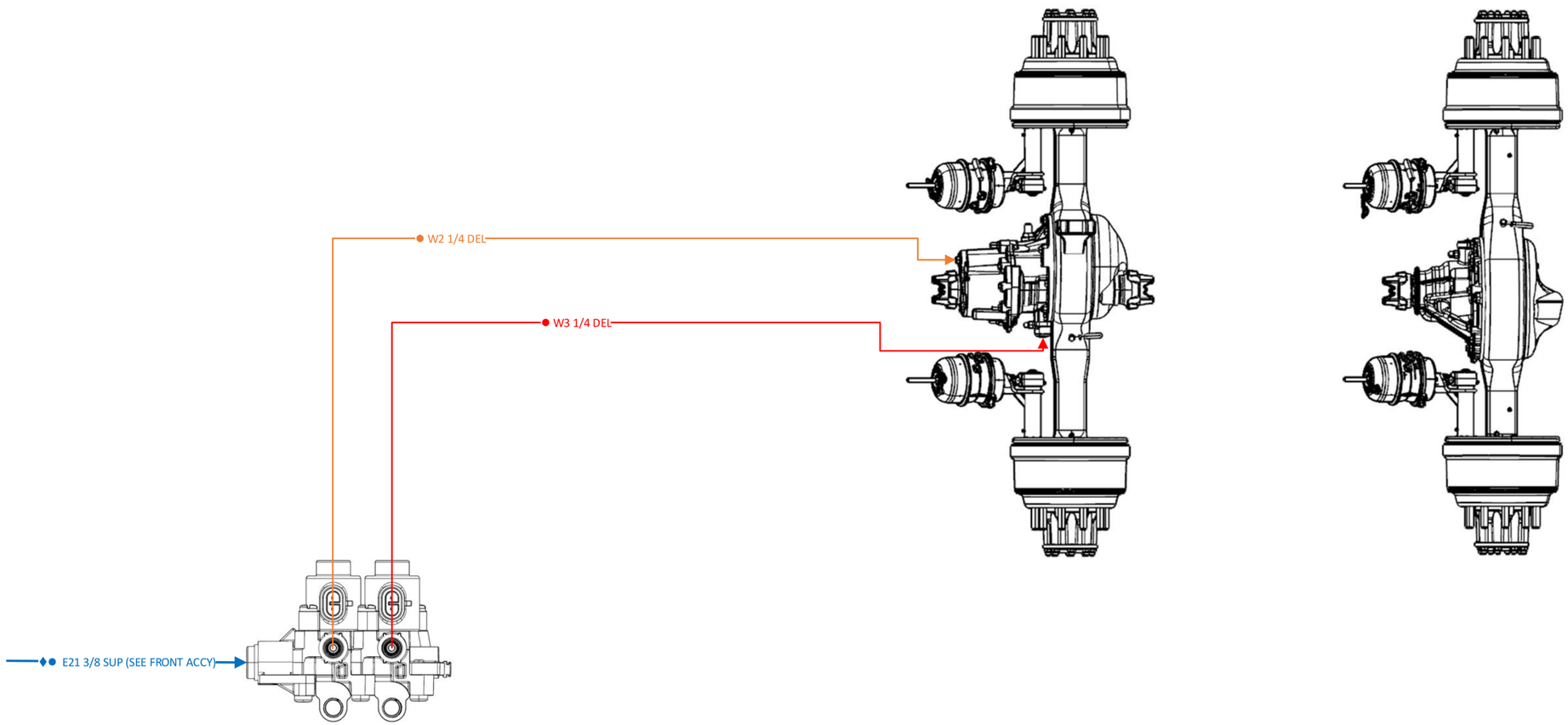
PWR DIV	6X4 REAR ACCESSORIES



♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

PWR DIV LOCKING DIFF 1	**6X4 REAR ACCESSORIES**

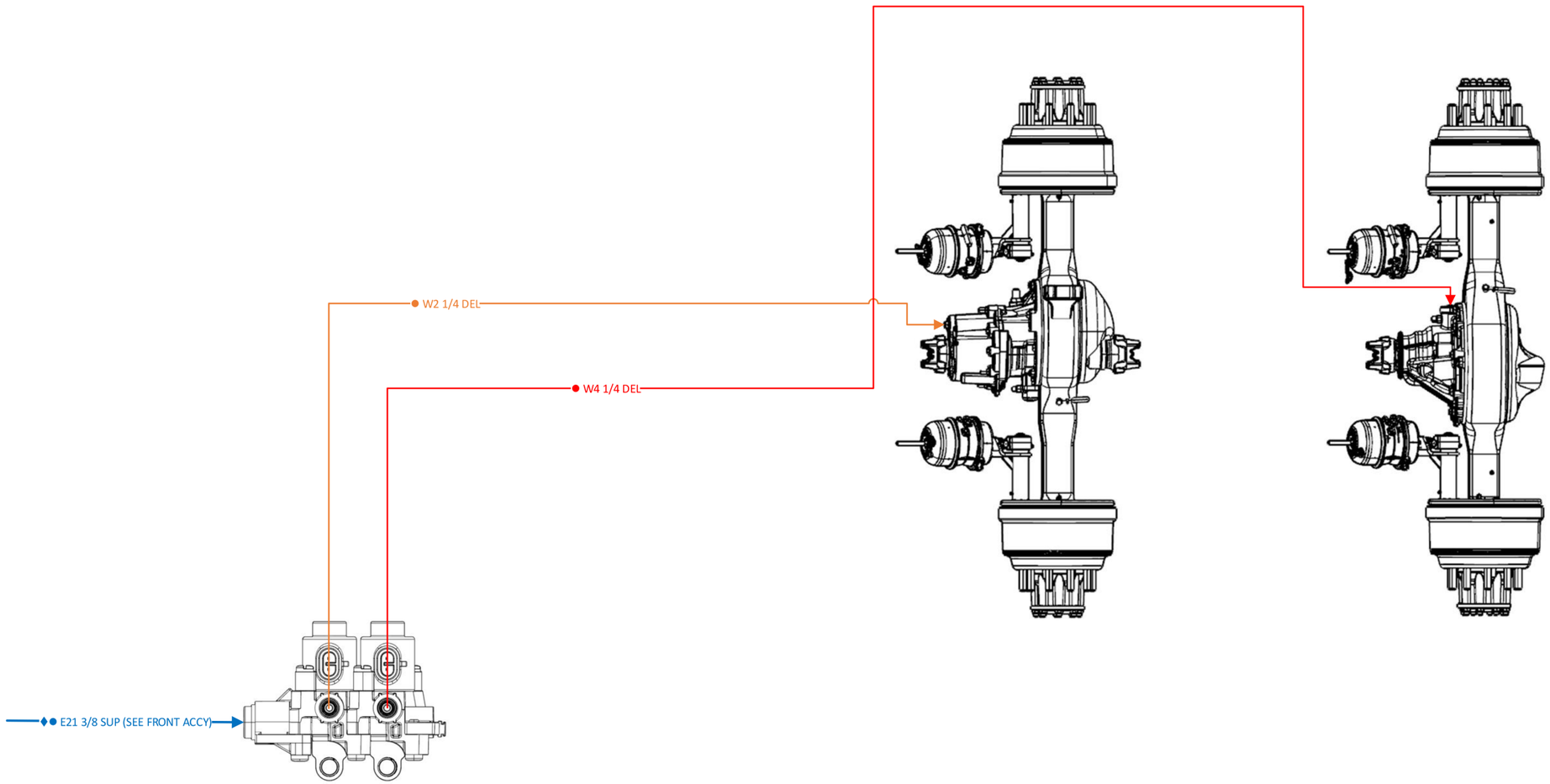


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

PWR DIV
LOCKING DIFF 2

6X4 REAR ACCESSORIES

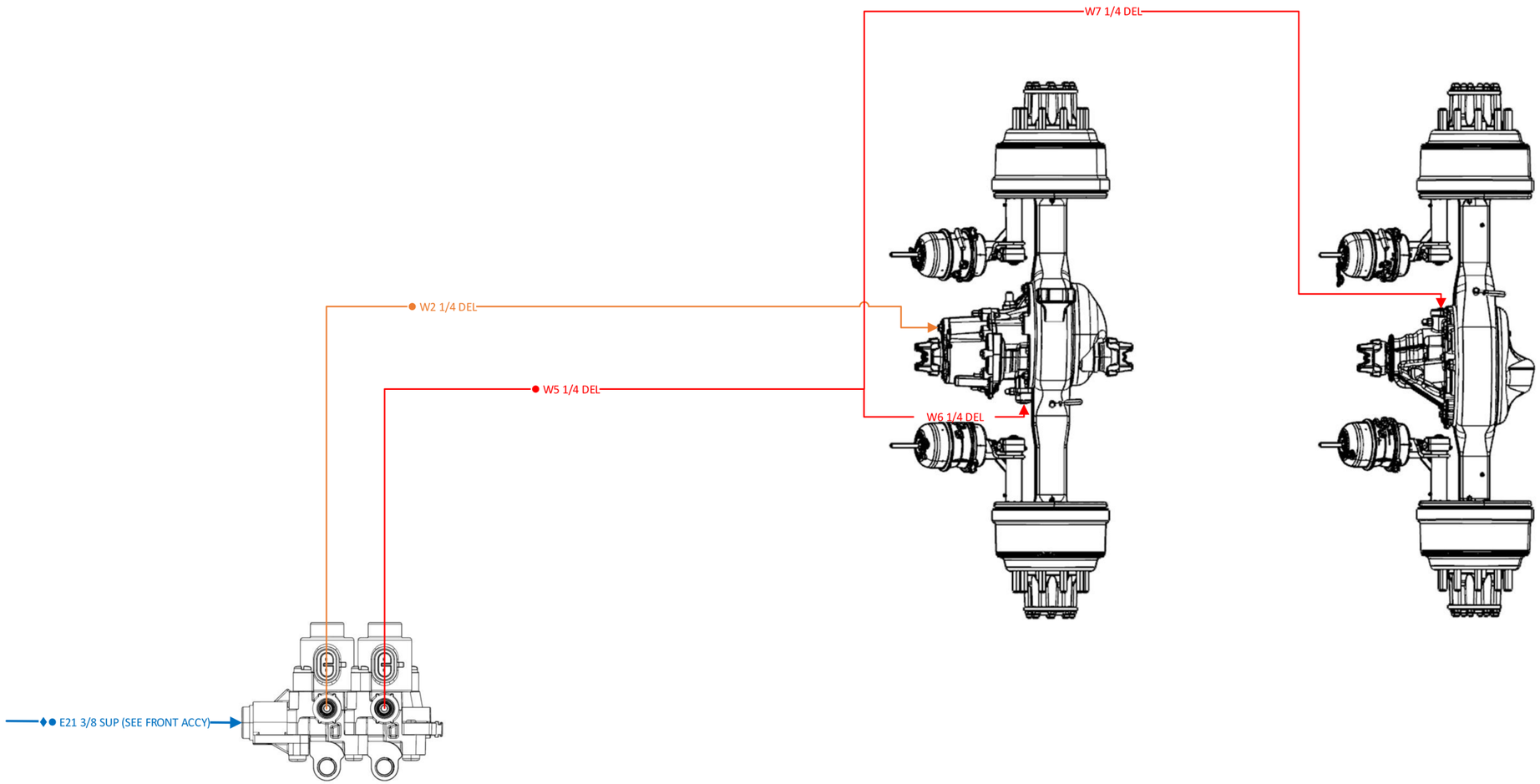


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

PWR DIV
CROSS-LOCK

6X4 REAR ACCESSORIES

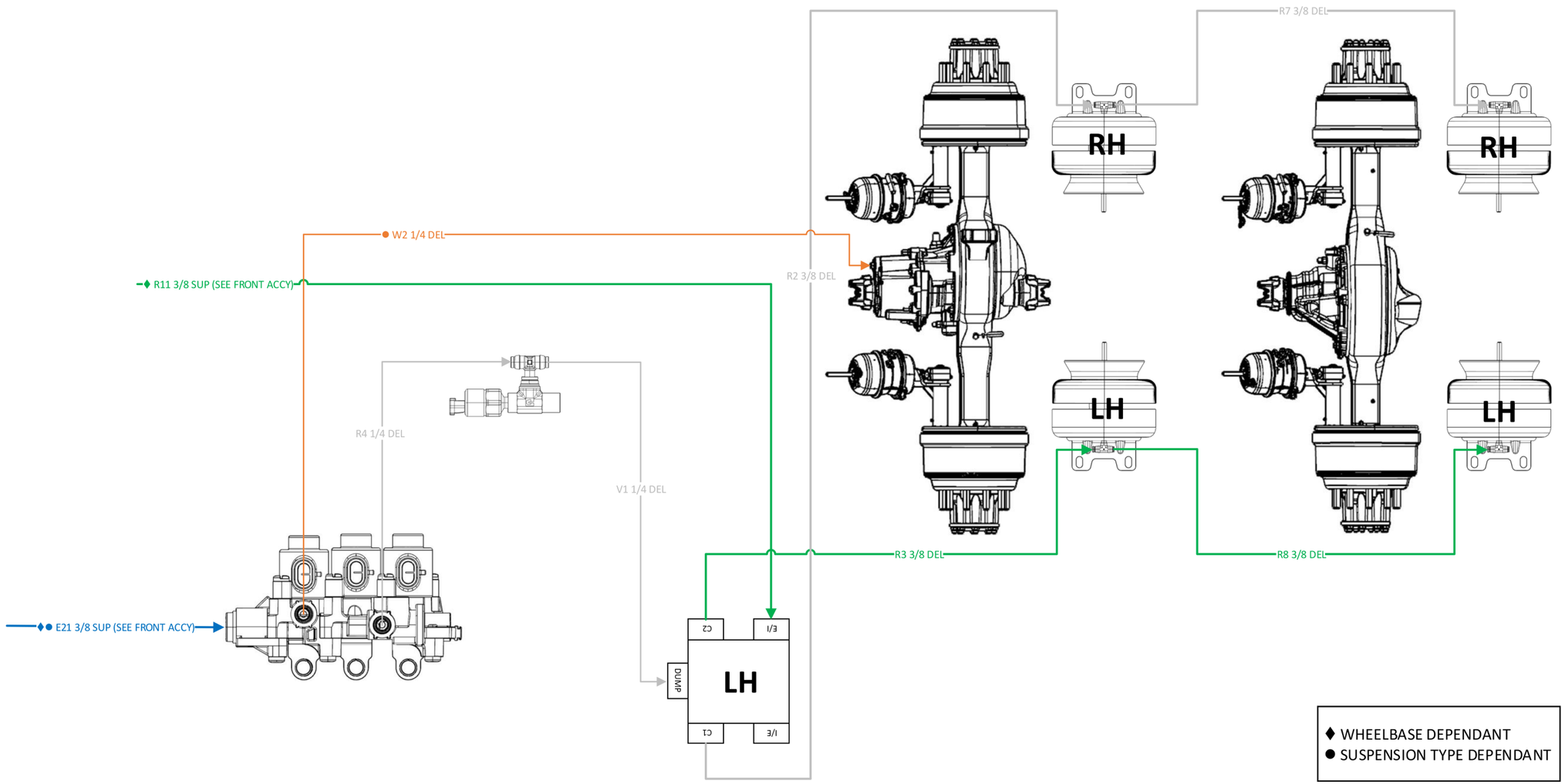


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

PWR DIV
AIR SUSP
(SINGLE LEVEL
W/DUMP)

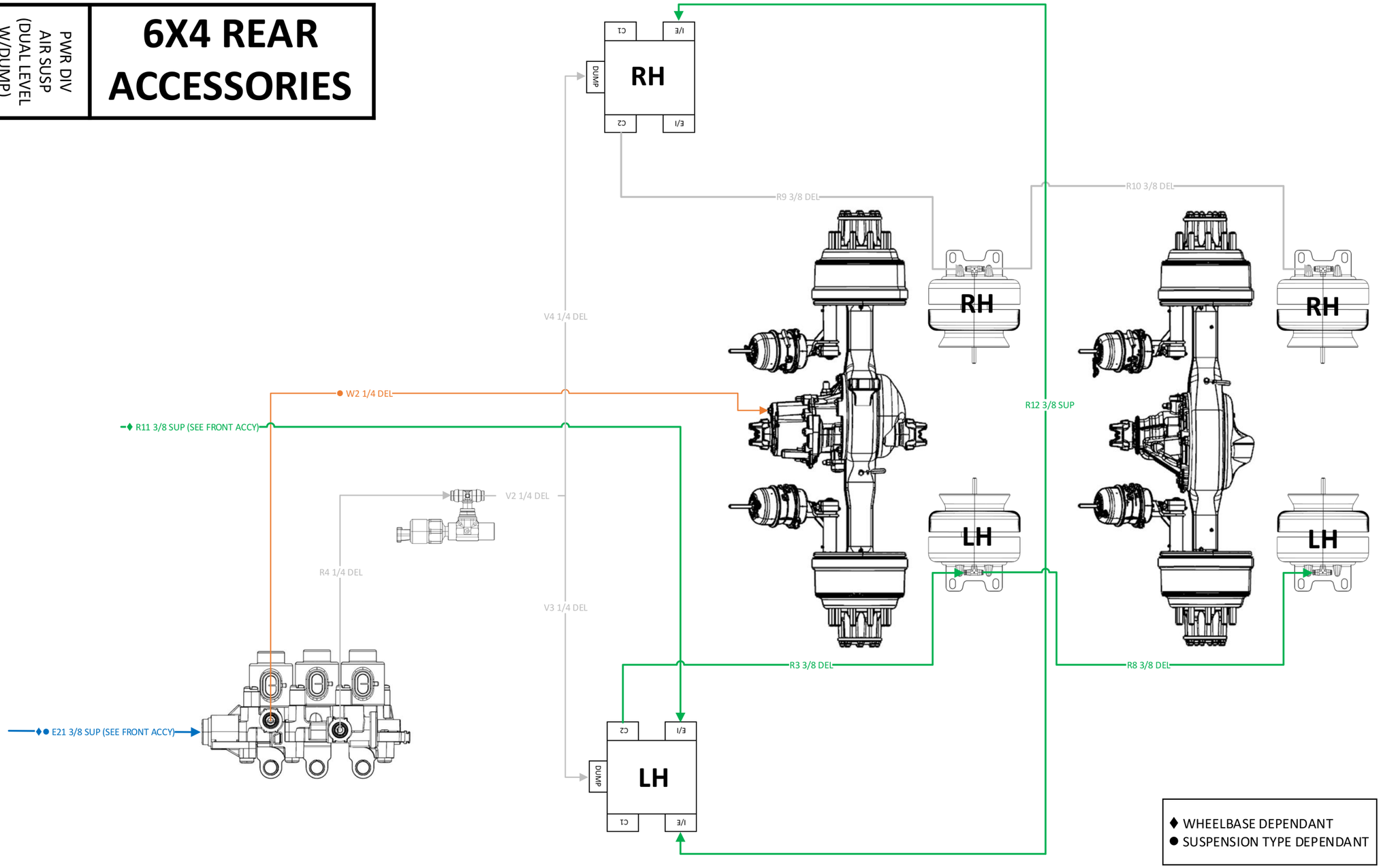
6X4 REAR ACCESSORIES



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

PWR DIV AIR SUSP (DUAL LEVEL W/DUMP)

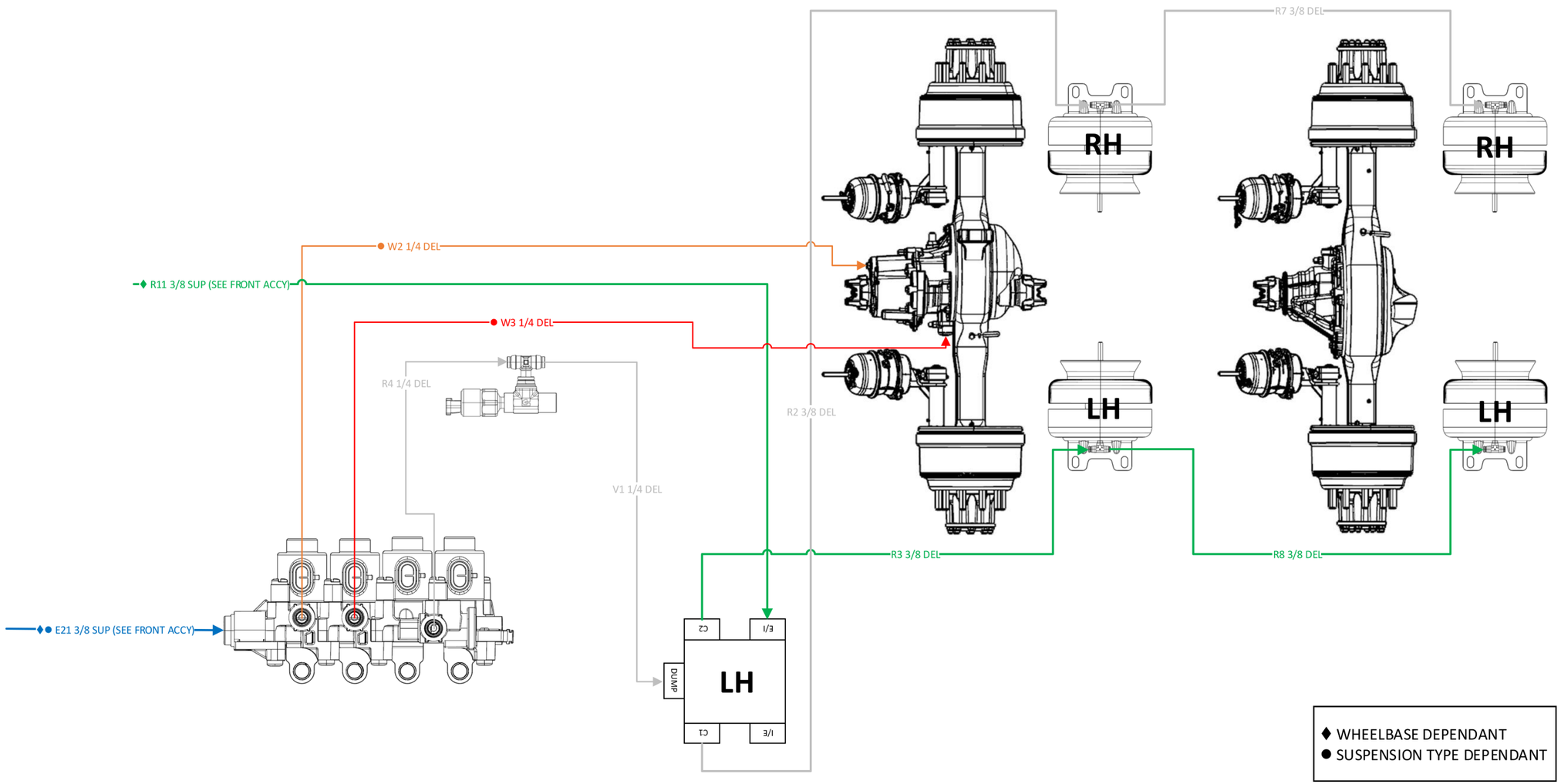
6X4 REAR ACCESSORIES



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

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

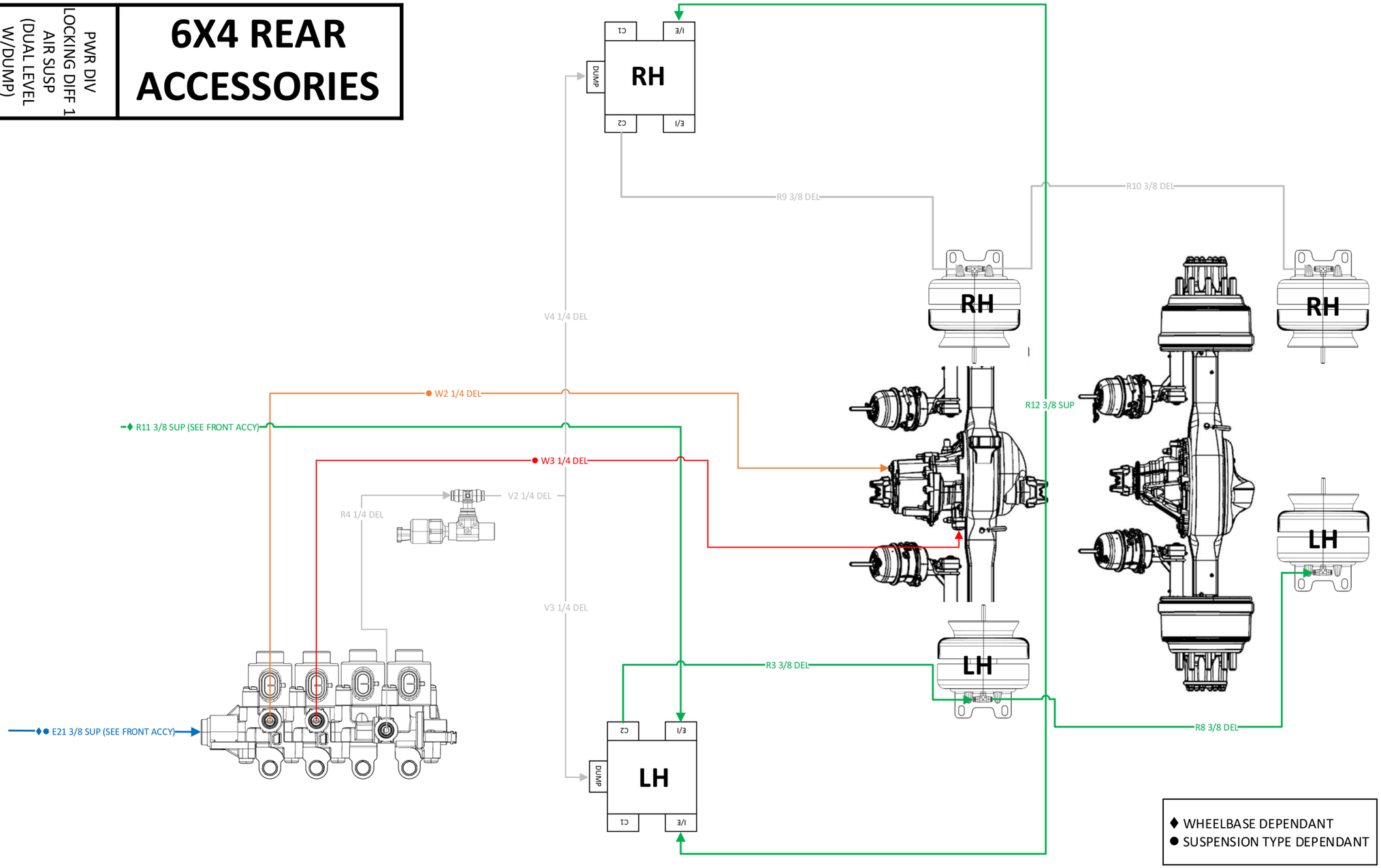
6X4 REAR ACCESSORIES



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

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

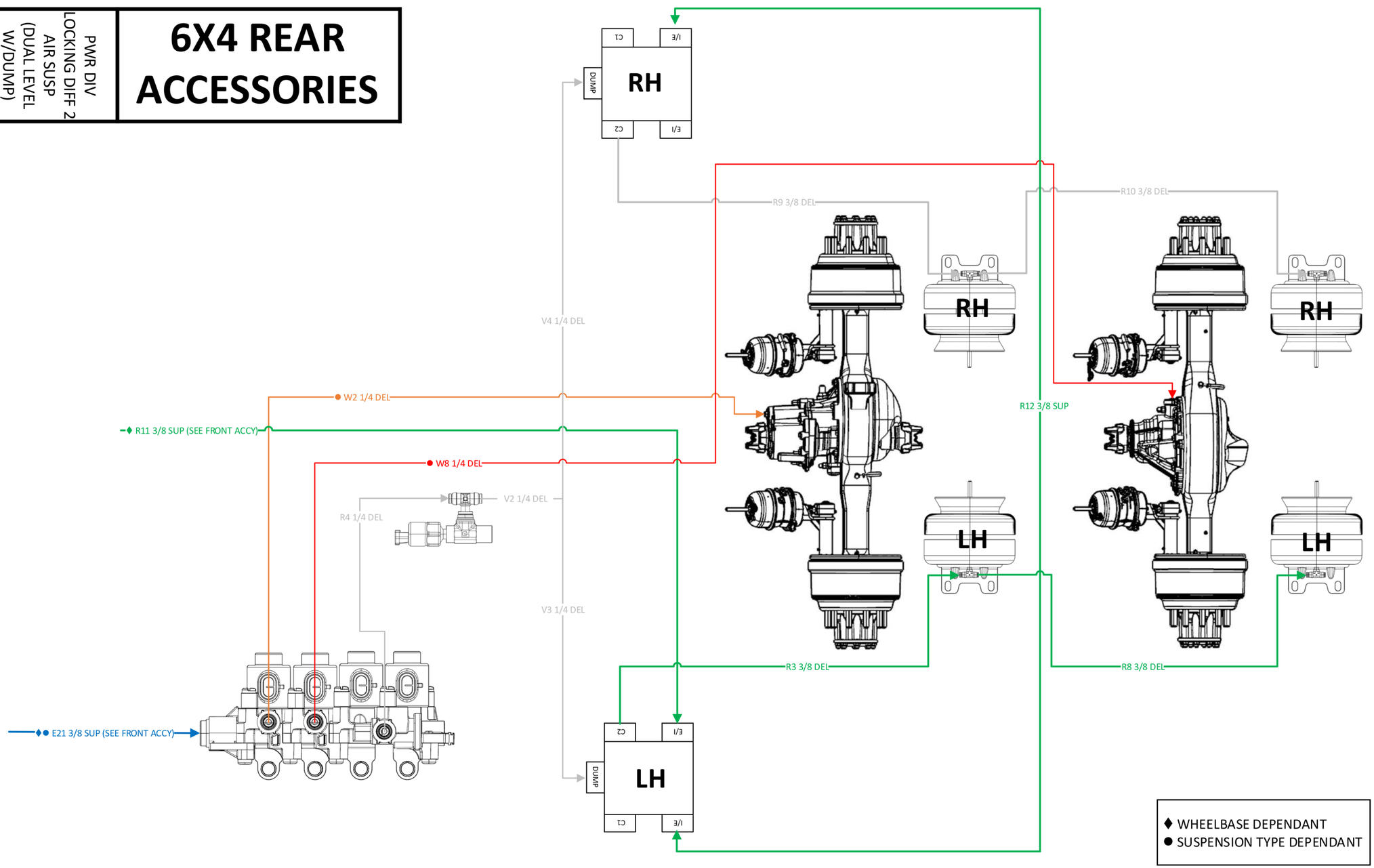
6X4 REAR ACCESSORIES



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

PWR DIV LOCKING DIFF 2 AIR SUSP (DUAL LEVEL W/DUMP)

6X4 REAR ACCESSORIES

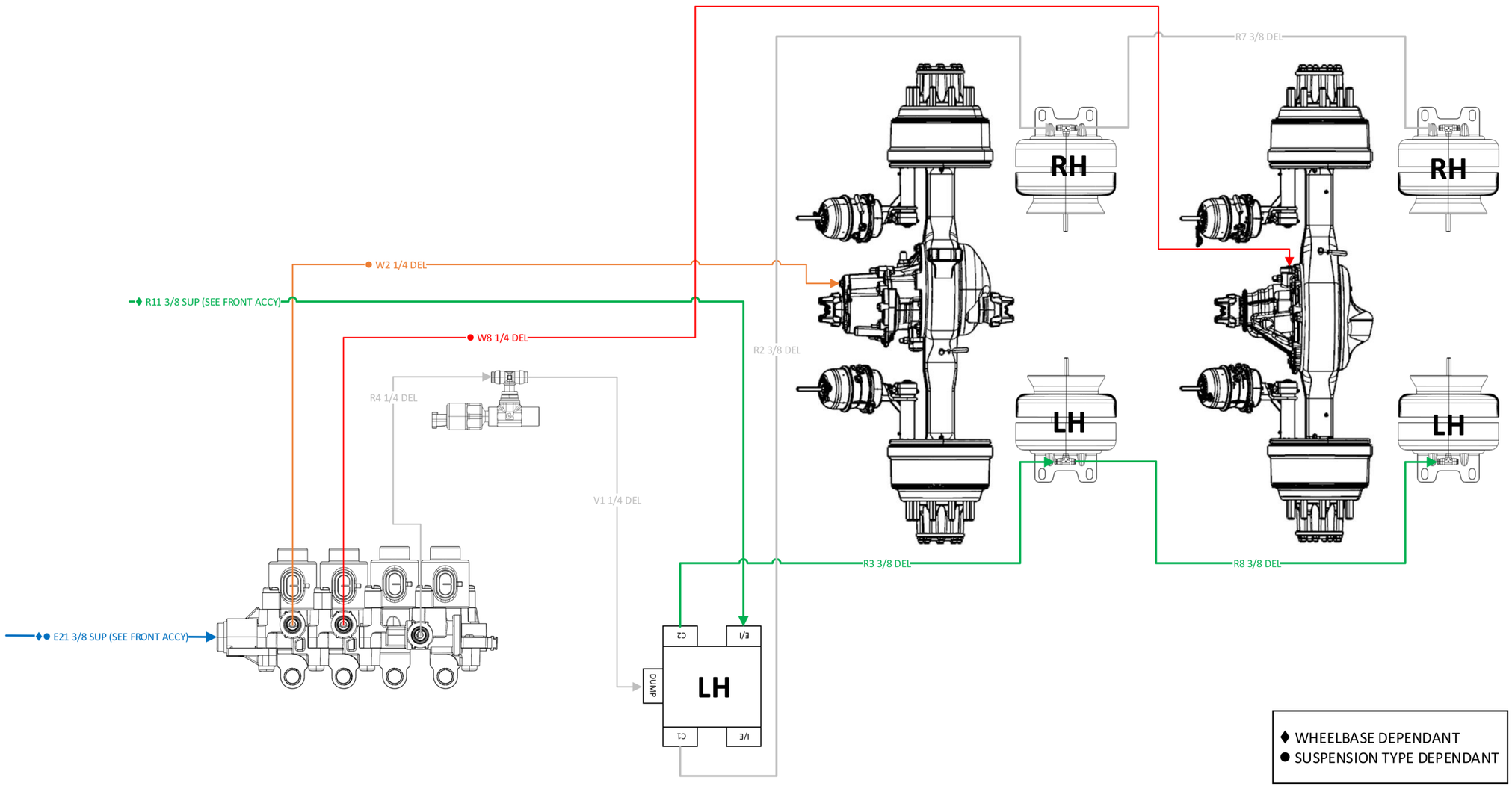


♦ WHEELBASE DEPENDANT
● SUSPENSION TYPE DEPENDANT

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

PWR DIV LOCKING DIFF 2 AIR SUSP (SINGLE LEVEL W/DUMP)

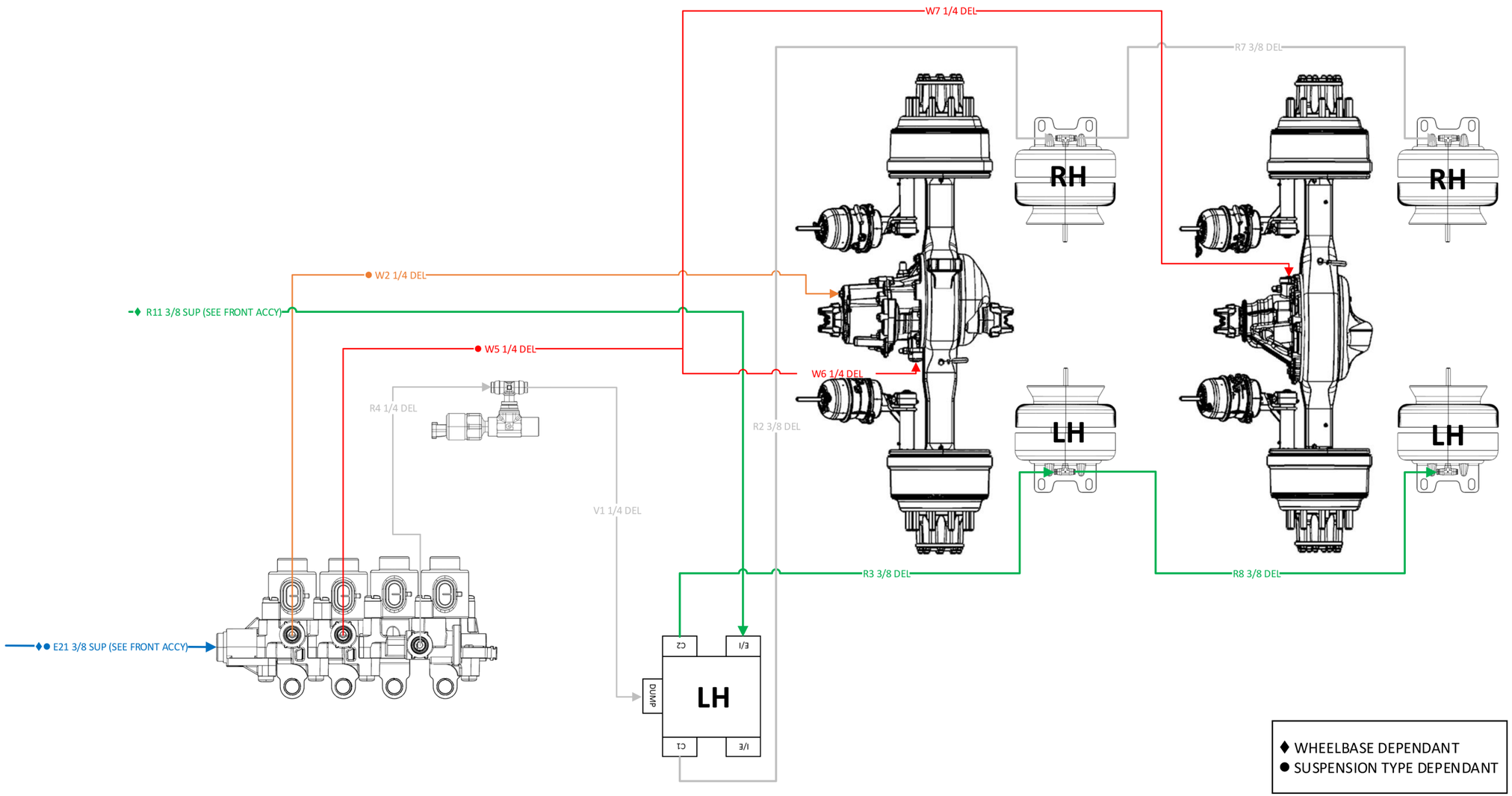
6X4 REAR ACCESSORIES



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

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

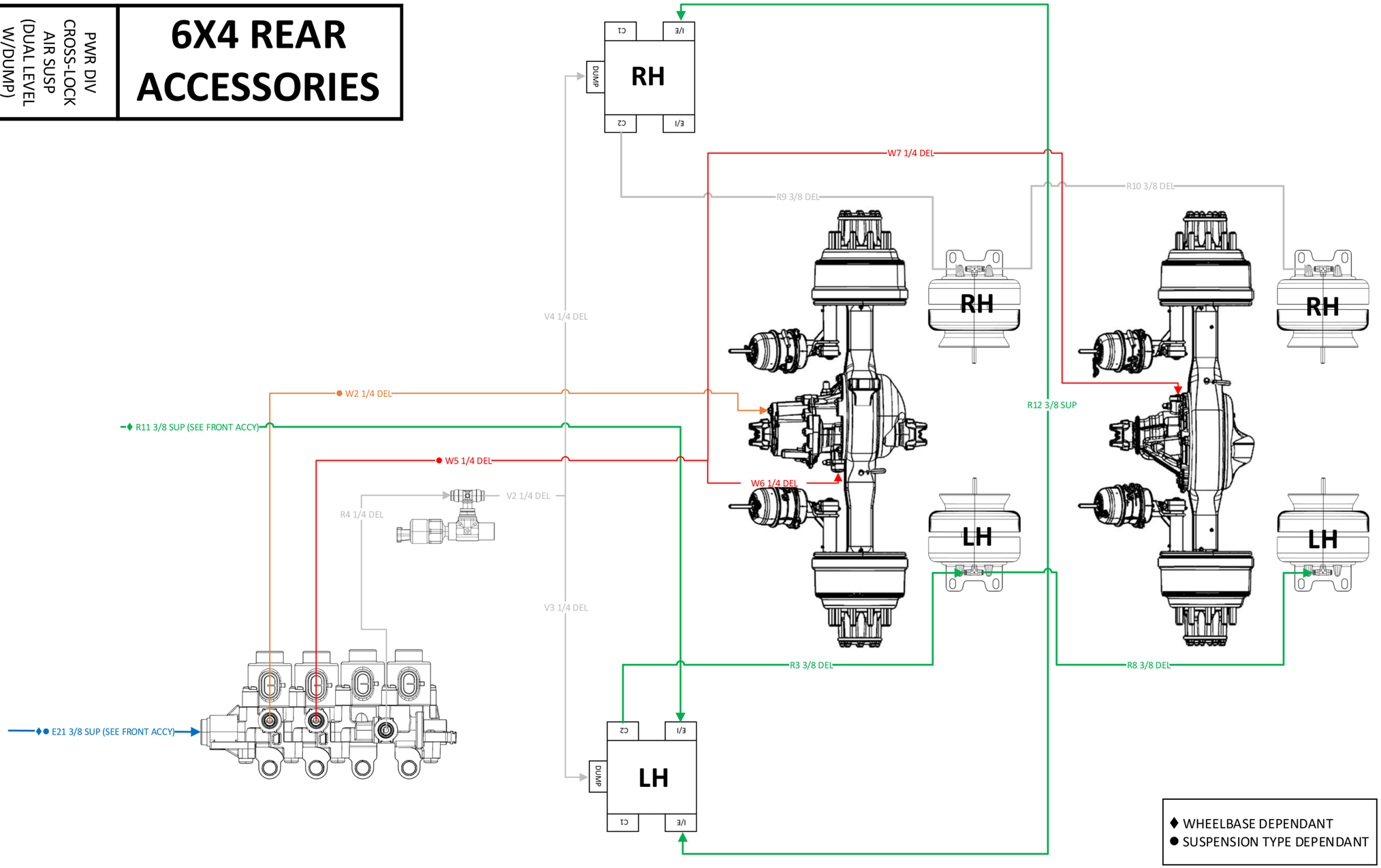
6X4 REAR ACCESSORIES



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

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

6X4 REAR ACCESSORIES



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

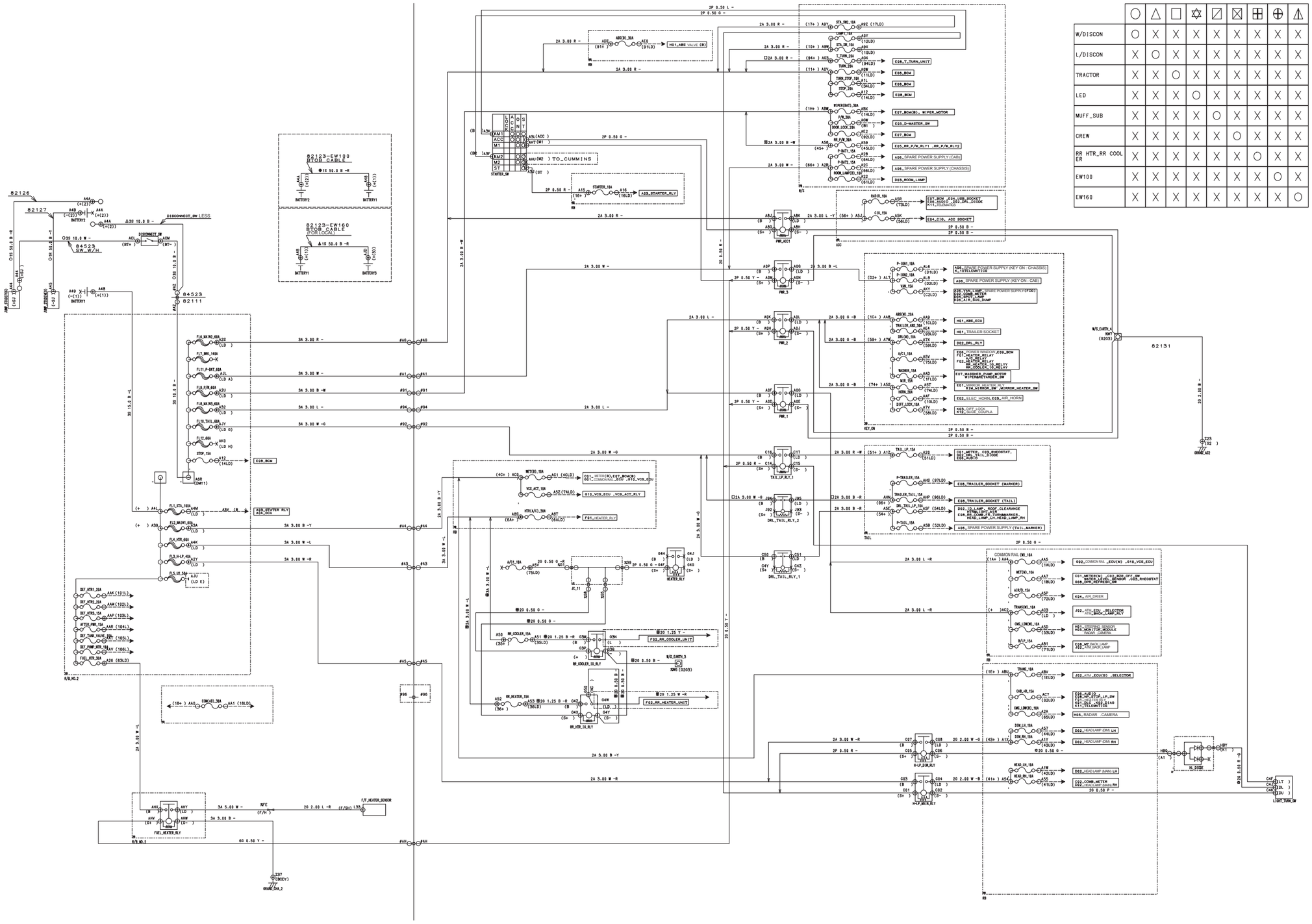
4. ELECTRIC WIRING DIAGRAM

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	LARGE CURRENT CABLE CIRCUIT
7	GRAND CIRCUIT_1
8	GRAND CIRCUIT_2
9	METER CIRCUIT_1
10	METER CIRCUIT_2
11	RHEOSTAT CIRCUIT
12	HALOGEN HEAD LAMP & DAY TIME RUNNING LAMP CIRCUIT
13	LED HEAD LAMP & DAY TIME RUNNING LAMP CIRCUIT
14	ROOM LAMP CIRCUIT
15	WORKING LAMP CIRCUIT
16	HEATING MIRROR CIRCUIT & REMOTE CONTROL MIRROR CIRCUIT
17	ELECTRICAL HORN CIRCUIT
18	AIR HORN CIRCUIT
19	CIGARETTE LIGHTER & ACC. SOCKET CIRCUIT
20	POWER WINDOW CIRCUIT
21	AUDIO CIRCUIT
22	BODY CONTROL CIRCUIT_POWER D/L & KEY LESS ENTRY
23	BODY CONTROL CIRCUIT_CAB
24	BODY CONTROL CIRCUIT_CHASSIS
25	MANUAL AIR CONDITIONER CIRCUIT
26	REAR COOLER & REAR HEATER CIRCUIT
27	CUMMINZ ENGINE ECU & ECM CIRCUIT
28	AFTERTRATMENT SYSTEM CIRCUIT
29	COMMON RAIL CIRCUIT_MTM EXHAUST BRAKE
30	COMMON RAIL CIRCUIT_ATM EXHAUST BRAKE
31	COMMON RAIL CIRCUIT_FS CURSE
32	VEHICLE CONTROL ECU CIRCUIT_1
33	VEHICLE CONTROL ECU CIRCUIT_2
34	VEHICLE CONTROL ECU CIRCUIT_3
35	VEHICLE CONTROL ECU CIRCUIT_4 (EXHAUST BRAKE)
36	ABS CIRCUIT_1
37	ABS CIRCUIT_2
38	ABS CIRCUIT_3 (HYDRAULIC BRAKE Ver. E)
39	HYDRAULIC BRAKE SYSTEM CIRCUIT
40	CMS, ACC & LDW CIRCUIT
41	ALLISON 2200/2500 TRANS BASIC CIRCUIT
42	ALLISON 3000RDS TRANS BASIC CIRCUIT
43	DIAGNOSIS CIRCUIT
44	DIAG' CONNECTOR CIRCUIT
45	DIFF LOCK CONTROL CIRCUIT
46	AIR DRIER CIRCUIT
47	AIR SUS DUMP CIRCUIT
48	VEHICLE CAN CIRCUIT
49	TELEMATICS CIRCUIT
50	SLIDE COUPLER LOCK CIRCUIT
51	FUEL FILTER SYSTEM CIRCUIT

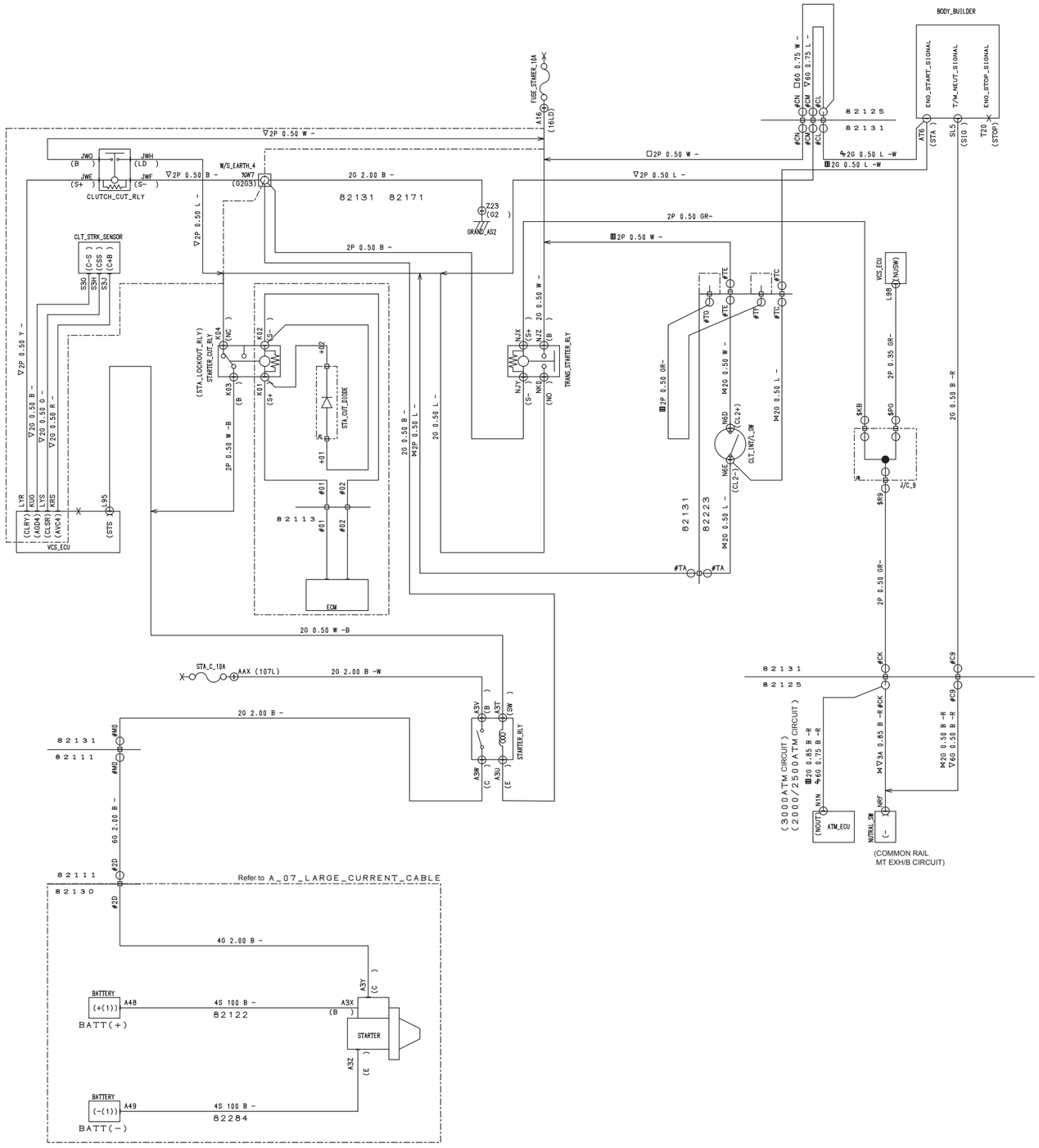
[NOTE] 1) There are all the specifications included options.
2) When you use these electrical diagrams, please understand the vehicle specifications.

1. POWER SUPPLY CIRCUIT



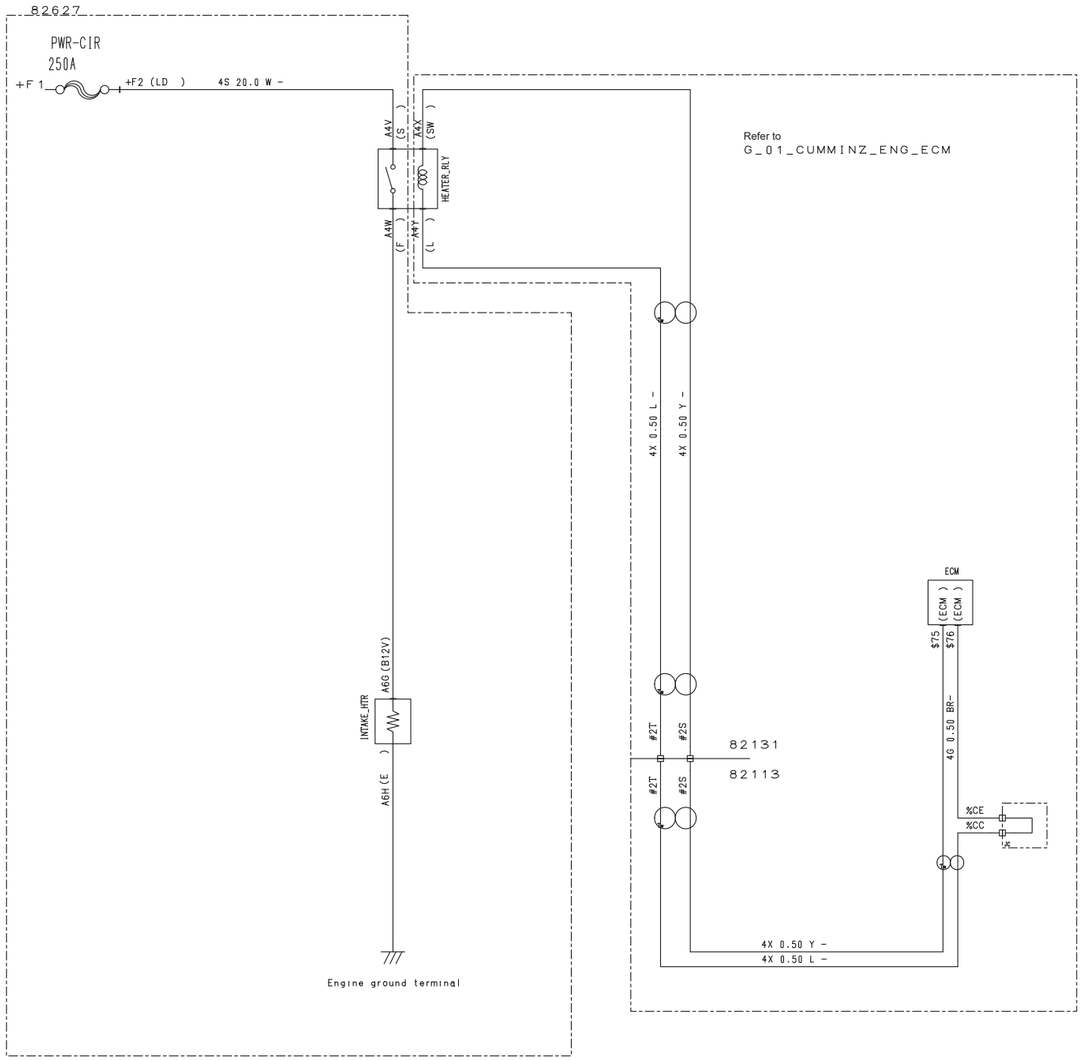
	○	△	□	✡	◪	⊠	⊞	⊕	◮
W/DISCON	○	X	X	X	X	X	X	X	X
L/DISCON	X	○	X	X	X	X	X	X	X
TRACTOR	X	X	○	X	X	X	X	X	X
LED	X	X	X	○	X	X	X	X	X
MUFF_SUB	X	X	X	X	○	X	X	X	X
CREW	X	X	X	X	X	○	X	X	X
RR HTR_RR COOLER	X	X	X	X	X	X	○	X	X
EW100	X	X	X	X	X	X	X	○	X
EW160	X	X	X	X	X	X	X	X	○

2. STARTING CIRCUIT

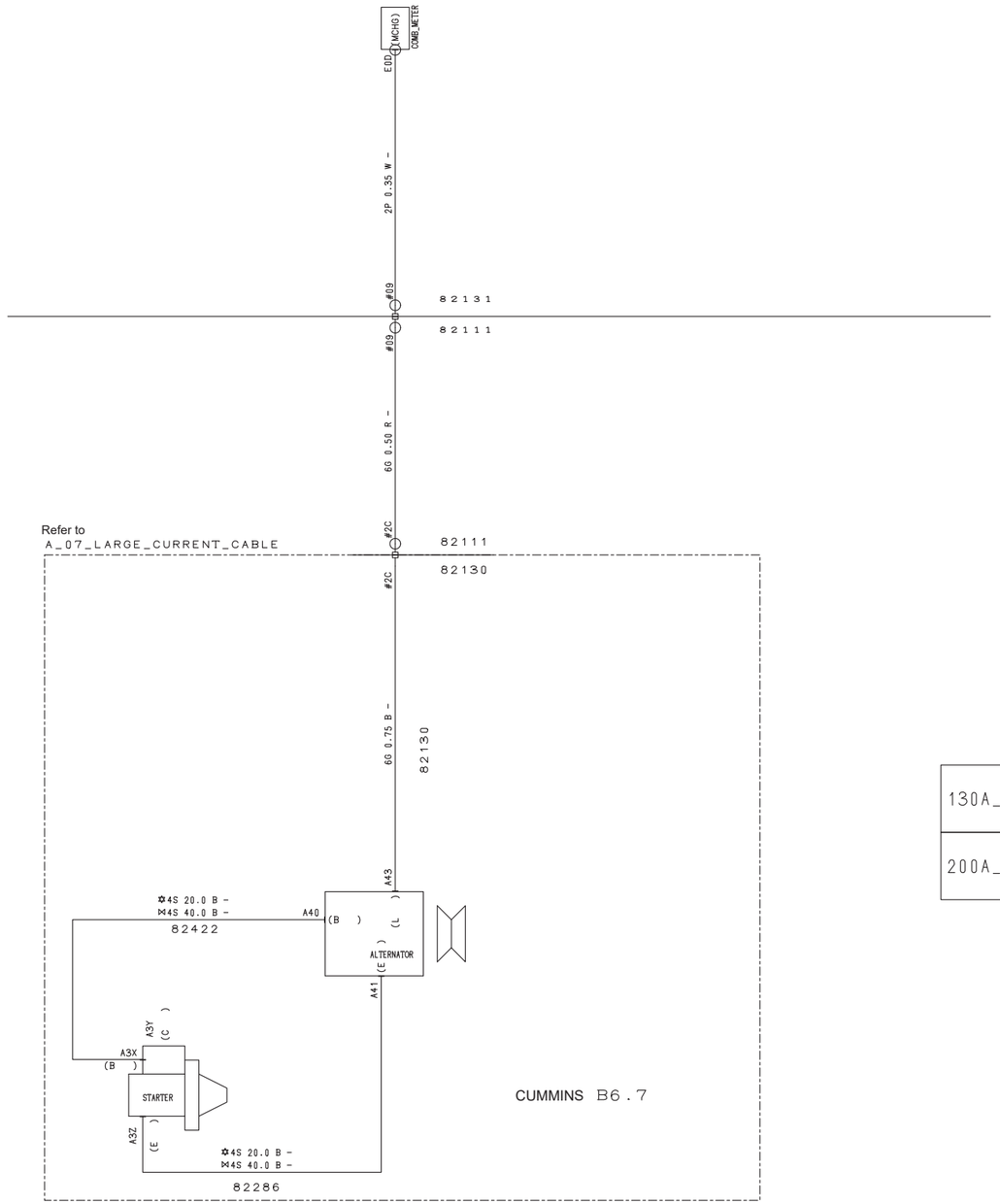


	⊞	□	⋈	◪	▽	∿	▥
2000/2200	○	X	X	X	X	X	X
A09C*3000/3500	X	○	X	X	X	X	X
EATON_FS	X	X	○	X	X	X	X
BODY_BUILDER	X	X	X	○	X	X	X
EATON_10/13SP	X	X	X	X	○	X	X
A09C	X	X	X	X	X	○	X
B6.7+A05C	X	X	X	X	X	X	○

3. PRE-HEAT CIRCUIT

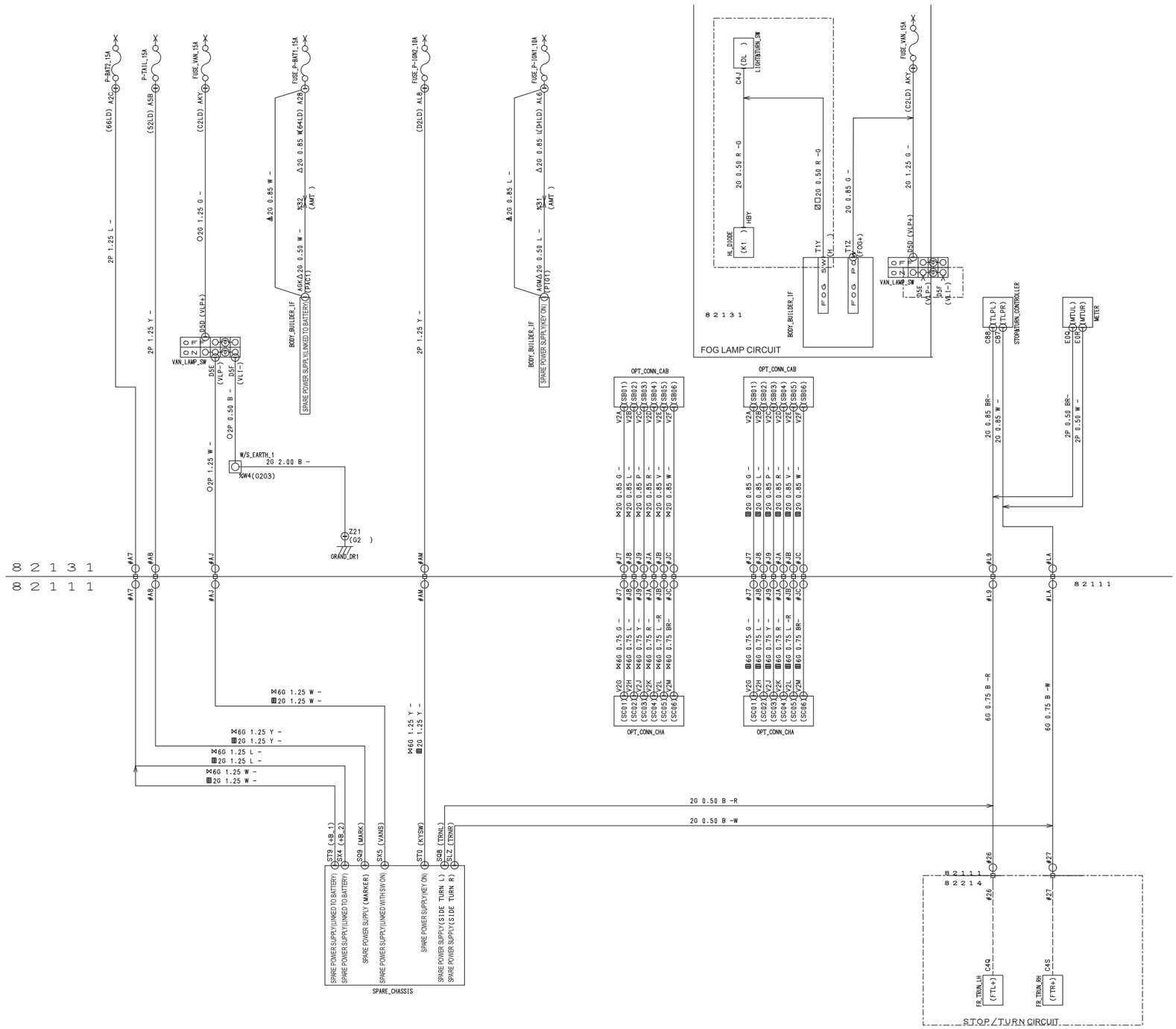


4. CHARGING CIRCUIT



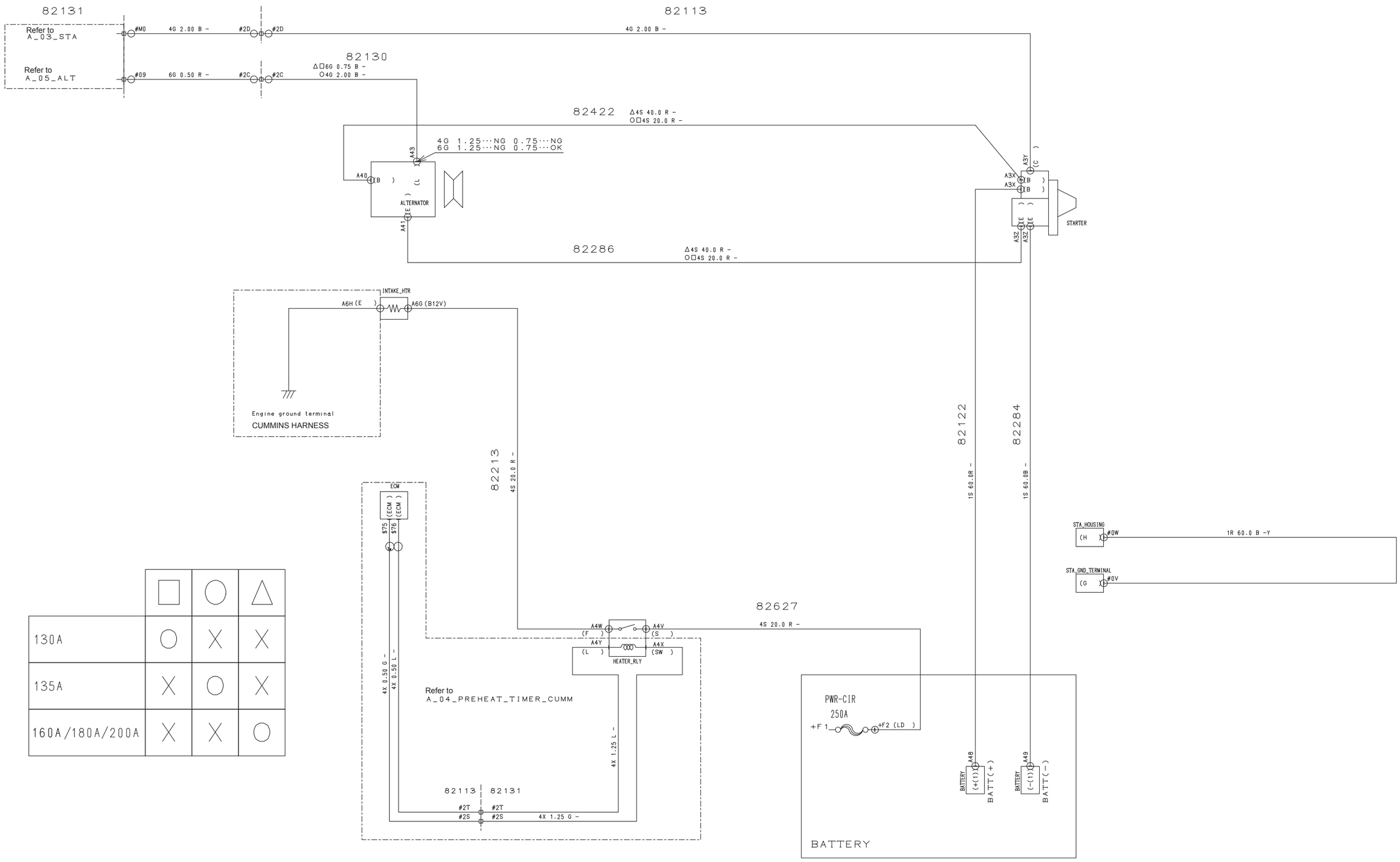
130A_ALT	○	×
200A_ALT	×	○

5. SPARE POWER SUPPLY CIRCUIT & FOG LAMP CIRCUIT

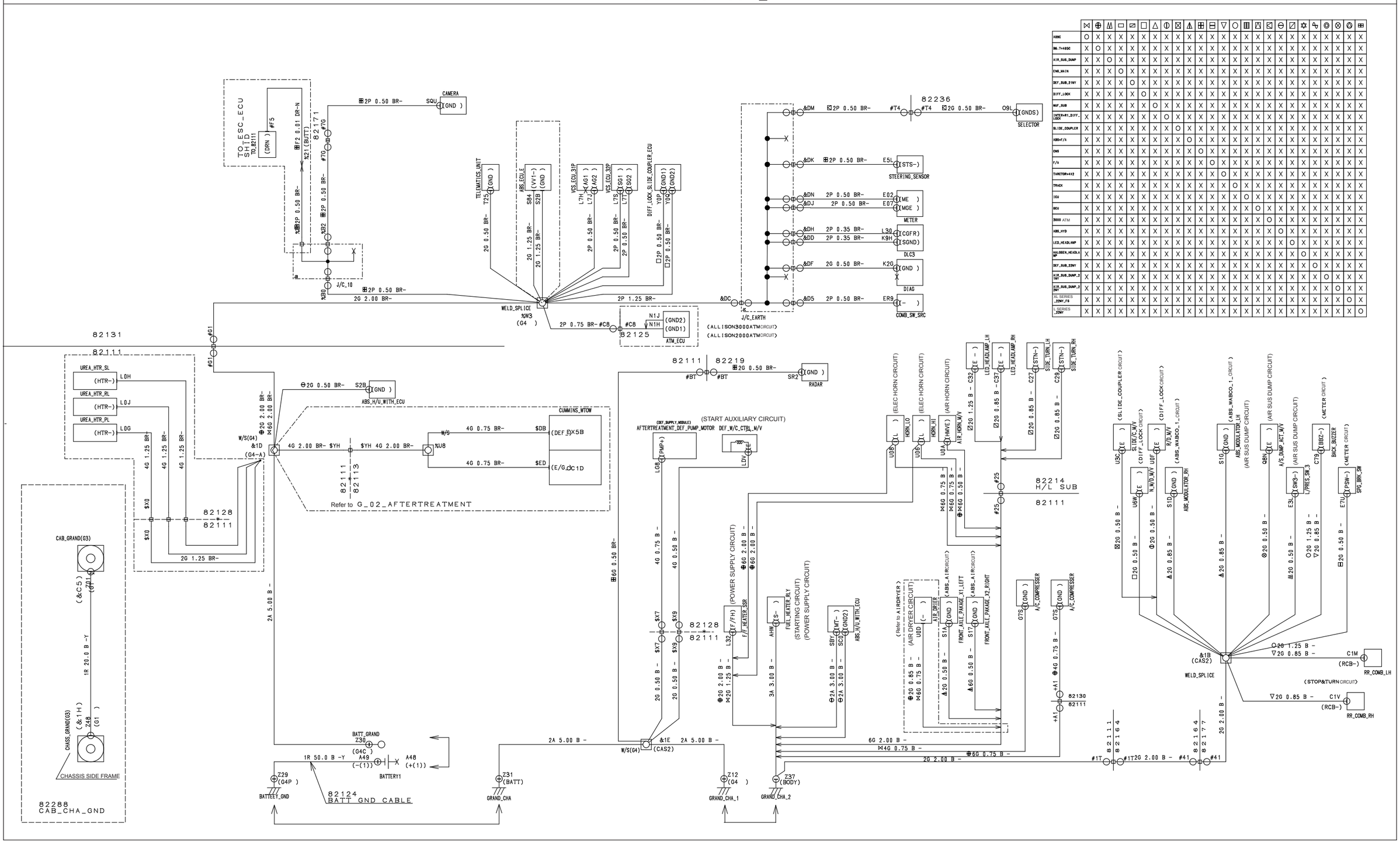


	○	□	⋈	▥	◪	△	⚠
VAN_LP	○	X	X	X	X	X	X
TRACK_21MY	X	○	X	X	X	X	X
A09C	X	X	○	X	X	X	X
J08E+A05C	X	X	X	○	X	X	X
TRACK_22MY	X	X	X	X	○	X	X
21MY	X	X	X	X	X	○	X
22MY	X	X	X	X	X	X	○

6. LARGE CURRENT CABLE CIRCUIT

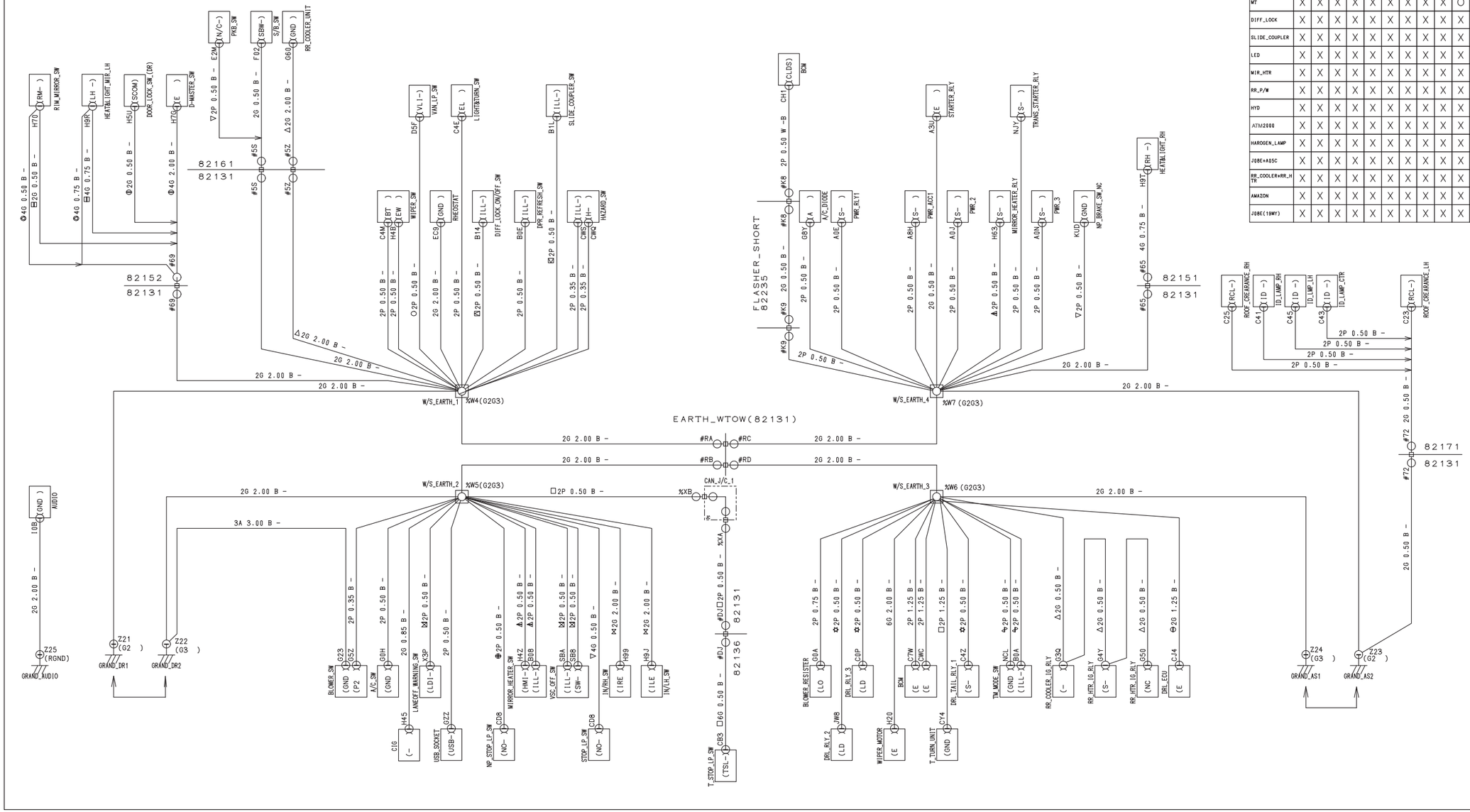


7. GRAND CIRCUIT_1



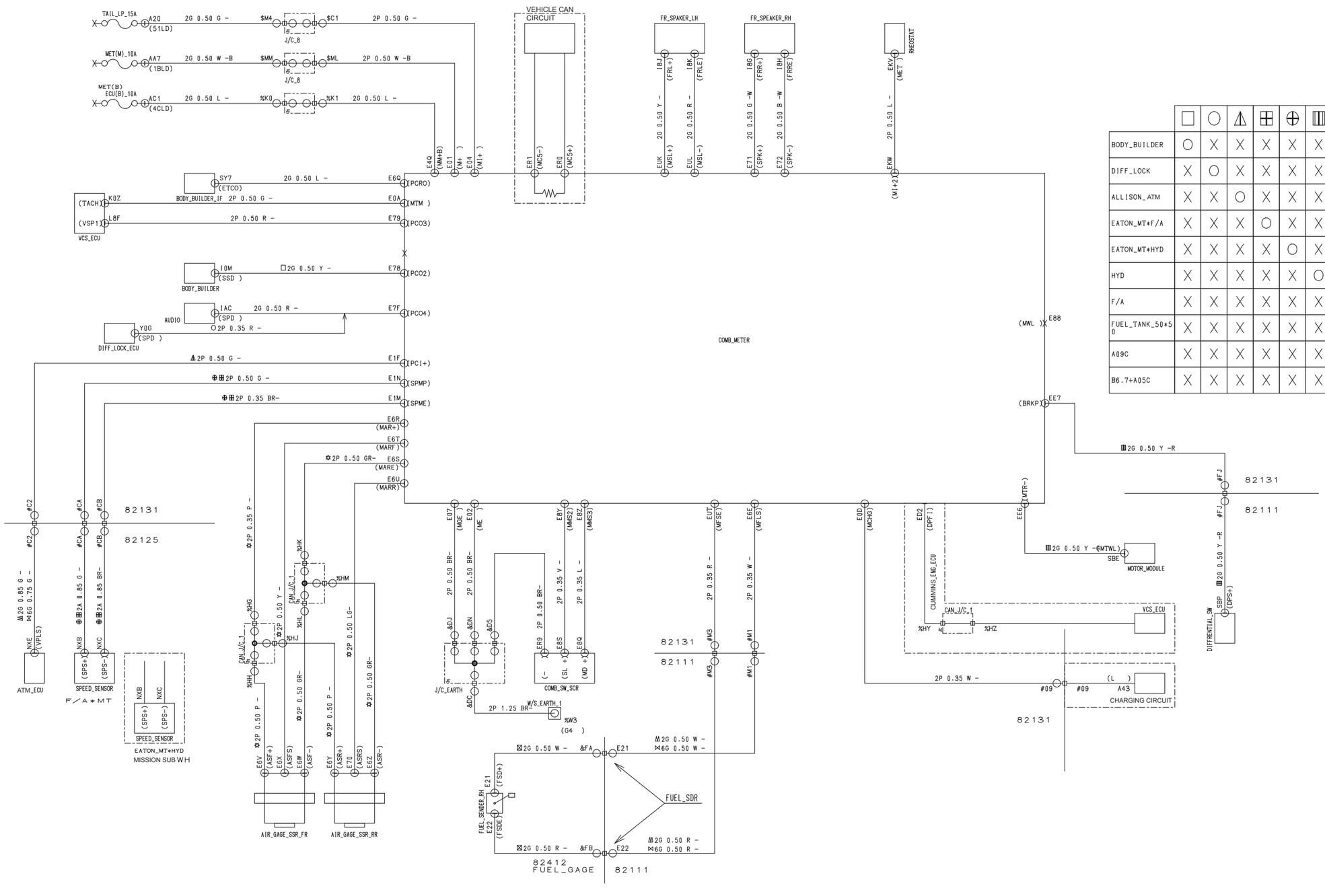
	⋈	⊕	⋔	▭	⊠	□	△	⦶	⊠	⋔	⊞	⊟	▽	○	▥	⋔	⊠	⊖	⊘	✡	⚲	◎	⊗	⊘	⊞
ABSC	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BG.T+ABSC	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AIR_SUS_DUMP	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ENG_MAIN	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEF_SUB_21NY	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DIFF_LOCK	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WUF_SUB	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
INTER+B1_DIFF_LOCK	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SLIDE_COUPLER	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ABS+F/A	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CMS	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F/A	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X
TRACTOR+4X2	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X
TRACK	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X
ICU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X
GCU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X
3000 ATM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X
ABS_HYD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X
LED_HEADLAMP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X
HALOGEN_HEADLAMP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X
DEF_SUB_22NY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X
AIR_SUS_DUMP_2NY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X
AIR_SUS_DUMP_2NY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X
XL SERIES _22NY_FS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O	X
L SERIES _22NY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	O

8. GRAND CIRCUIT_2



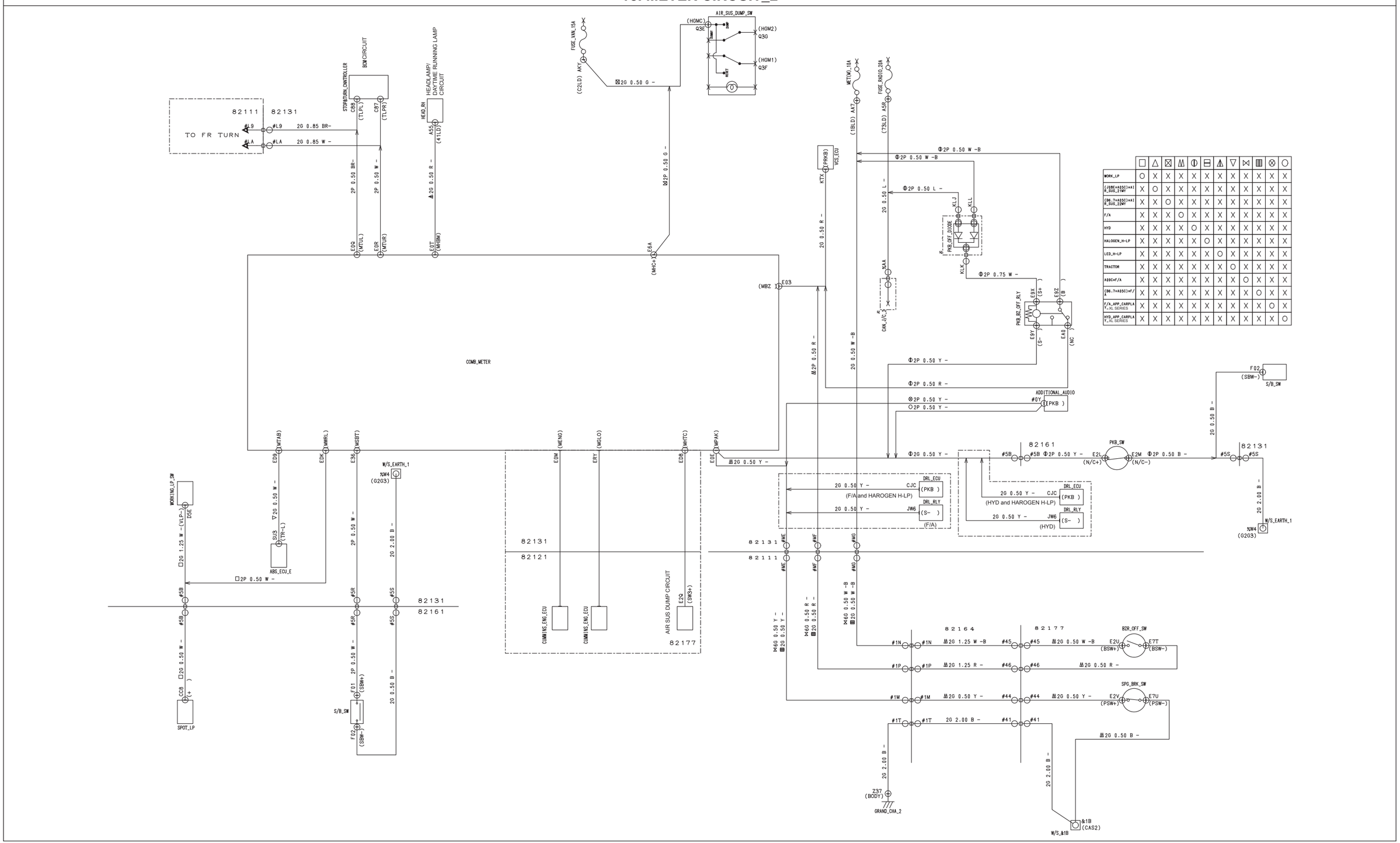
	⊕	⦶	⋔	□	⊠	○	◪	⌂	⊟	▥	◪	◪	✡	⋀	⋈	▽	⚢	⊖	⊞	△	⊗	□
F/A+L/CFS	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P/W	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
(J08E+A05C)+AIR_SUS_21MY	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TRACTOR	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ABS+CWS	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VAN_LP	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SPOT_LP	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LESS_P/W+MIR_HTR	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P/W+MIR_HTR	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X	X
WT	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X	X
DIFF_LOCK	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X	X
SLIDE_COUPLER	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X	X
LED	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X	X
WIR_HTR	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X	X
RR_P/W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X	X
HYD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X	X
ATM2000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X	X
HAROGEN_LAMP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X	X
J08E+A05C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X	X
RR_COOLER+RR_HTR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X	X
AMAZON	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○	X
J08E(19MY)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	○

9. METER CIRCUIT_1



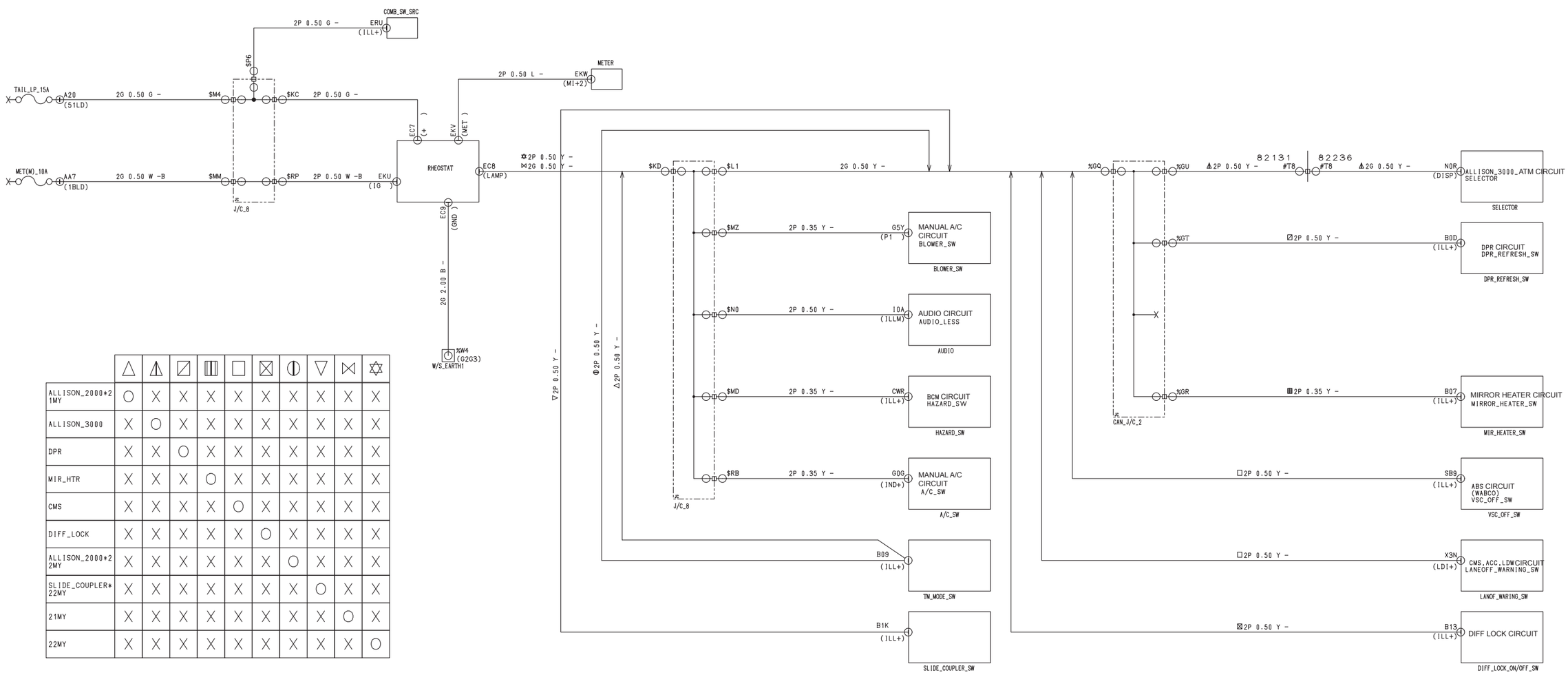
	□	○	△	⊞	⊕	▥	✡	⊠	⋈	⩚
BODY_BUILDER	○	X	X	X	X	X	X	X	X	X
DIFF_LOCK	X	○	X	X	X	X	X	X	X	X
ALLISON_ATM	X	X	○	X	X	X	X	X	X	X
EATON_MT*F/A	X	X	X	○	X	X	X	X	X	X
EATON_MT*HYD	X	X	X	X	○	X	X	X	X	X
HYD	X	X	X	X	X	○	X	X	X	X
F/A	X	X	X	X	X	X	○	X	X	X
FUEL_TANK_50*50	X	X	X	X	X	X	X	○	X	X
A09C	X	X	X	X	X	X	X	X	○	X
B6.7+A05C	X	X	X	X	X	X	X	X	X	○

10. METER CIRCUIT_2



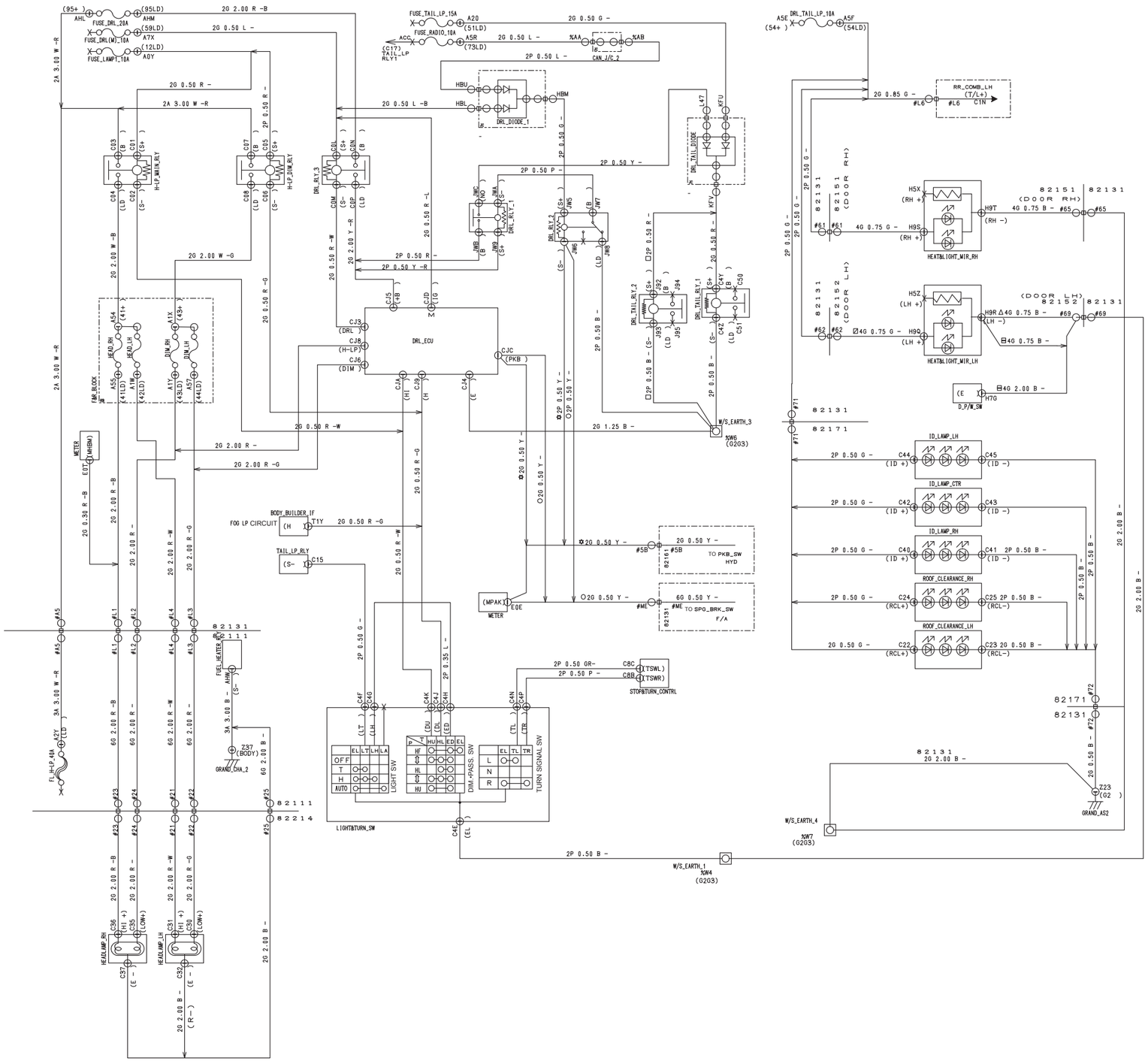
	□	△	⊠	⩘	Φ	⊟	⚠	▽	⋈	▥	⊗	○
WORK_LP	○	X	X	X	X	X	X	X	X	X	X	X
(EJ8E+A8SC)+A1 R_SUS_21MT	X	○	X	X	X	X	X	X	X	X	X	X
(D6.7+A8SC)+A1 R_SUS_22MT	X	X	○	X	X	X	X	X	X	X	X	X
F/A	X	X	X	○	X	X	X	X	X	X	X	X
HYD	X	X	X	X	○	X	X	X	X	X	X	X
HALOGEN_H-LP	X	X	X	X	X	○	X	X	X	X	X	X
LED_H-LP	X	X	X	X	X	X	○	X	X	X	X	X
TRACTOR	X	X	X	X	X	X	X	○	X	X	X	X
A09CnF/A	X	X	X	X	X	X	X	X	○	X	X	X
(D6.7+A8SC)+F/A	X	X	X	X	X	X	X	X	X	○	X	X
F/A_APP_CARPLAY_XL SERIES	X	X	X	X	X	X	X	X	X	X	○	X
HYD_APP_CARPLAY_XL SERIES	X	X	X	X	X	X	X	X	X	X	X	○

11. RHEOSTAT CIRCUIT



	△	◭	◪	▥	□	⊠	◐	▽	⋈	✡
ALLISON_2000*21MY	○	X	X	X	X	X	X	X	X	X
ALLISON_3000	X	○	X	X	X	X	X	X	X	X
DPR	X	X	○	X	X	X	X	X	X	X
MIR_HTR	X	X	X	○	X	X	X	X	X	X
CMS	X	X	X	X	○	X	X	X	X	X
DIFF_LOCK	X	X	X	X	X	○	X	X	X	X
ALLISON_2000*22MY	X	X	X	X	X	X	○	X	X	X
SLIDE_COUPLER*22MY	X	X	X	X	X	X	X	○	X	X
21MY	X	X	X	X	X	X	X	X	○	X
22MY	X	X	X	X	X	X	X	X	X	○

12. HALOGEN HEAD LAMP & DAY TIME RUNNING LAMP CIRCUIT

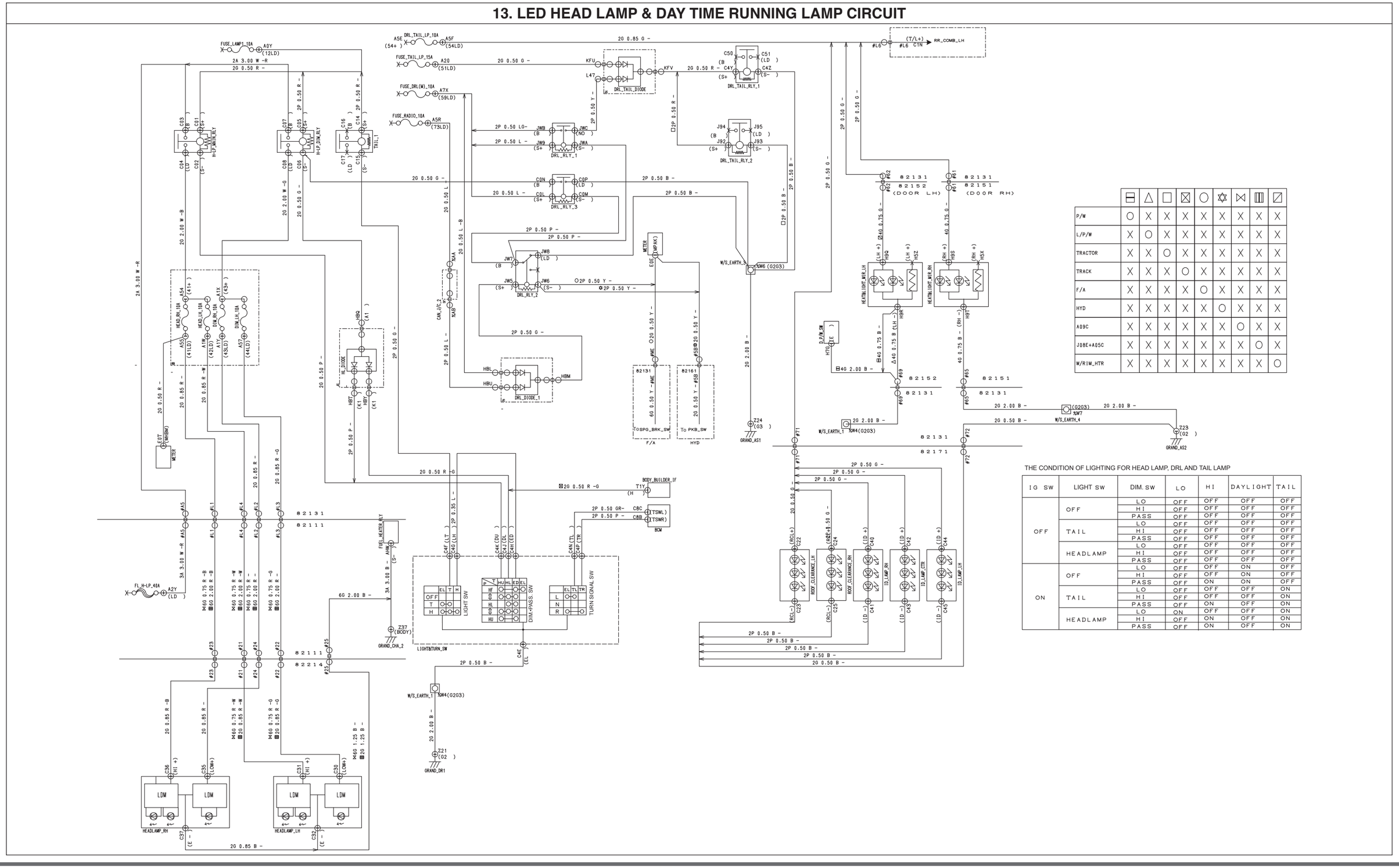


THE CONDITION OF LIGHTING FOR HEAD LAMP, DRL AND TAIL LAMP

IG SW	LIGHT SW	DIM. SW	LO	HI	DAYLIGHT	TAIL
OFF	OFF	LO	OFF	OFF	OFF	OFF
		HI	OFF	OFF	OFF	OFF
		PASS	OFF	OFF	OFF	OFF
	TAIL	LO	OFF	OFF	OFF	OFF
		HI	OFF	OFF	OFF	OFF
		PASS	OFF	OFF	OFF	OFF
	HEADLAMP	LO	OFF	OFF	OFF	OFF
		HI	OFF	OFF	OFF	OFF
		PASS	OFF	OFF	OFF	OFF
ON	OFF	LO	OFF	OFF	ON	OFF
		HI	OFF	OFF	ON	OFF
		PASS	OFF	ON	ON	OFF
	TAIL	LO	OFF	OFF	OFF	ON
		HI	OFF	OFF	OFF	ON
		PASS	OFF	ON	OFF	ON
	HEADLAMP	LO	ON	OFF	OFF	ON
		HI	OFF	ON	OFF	ON
		PASS	OFF	ON	OFF	ON

	⊟	△	○	✡	□	◪
P/W	○	X	X	X	X	X
L/P/W	X	○	X	X	X	X
F/A	X	X	○	X	X	X
HYD	X	X	X	○	X	X
TRACTOR	X	X	X	X	○	X
W/RIM_HTR	X	X	X	X	X	○

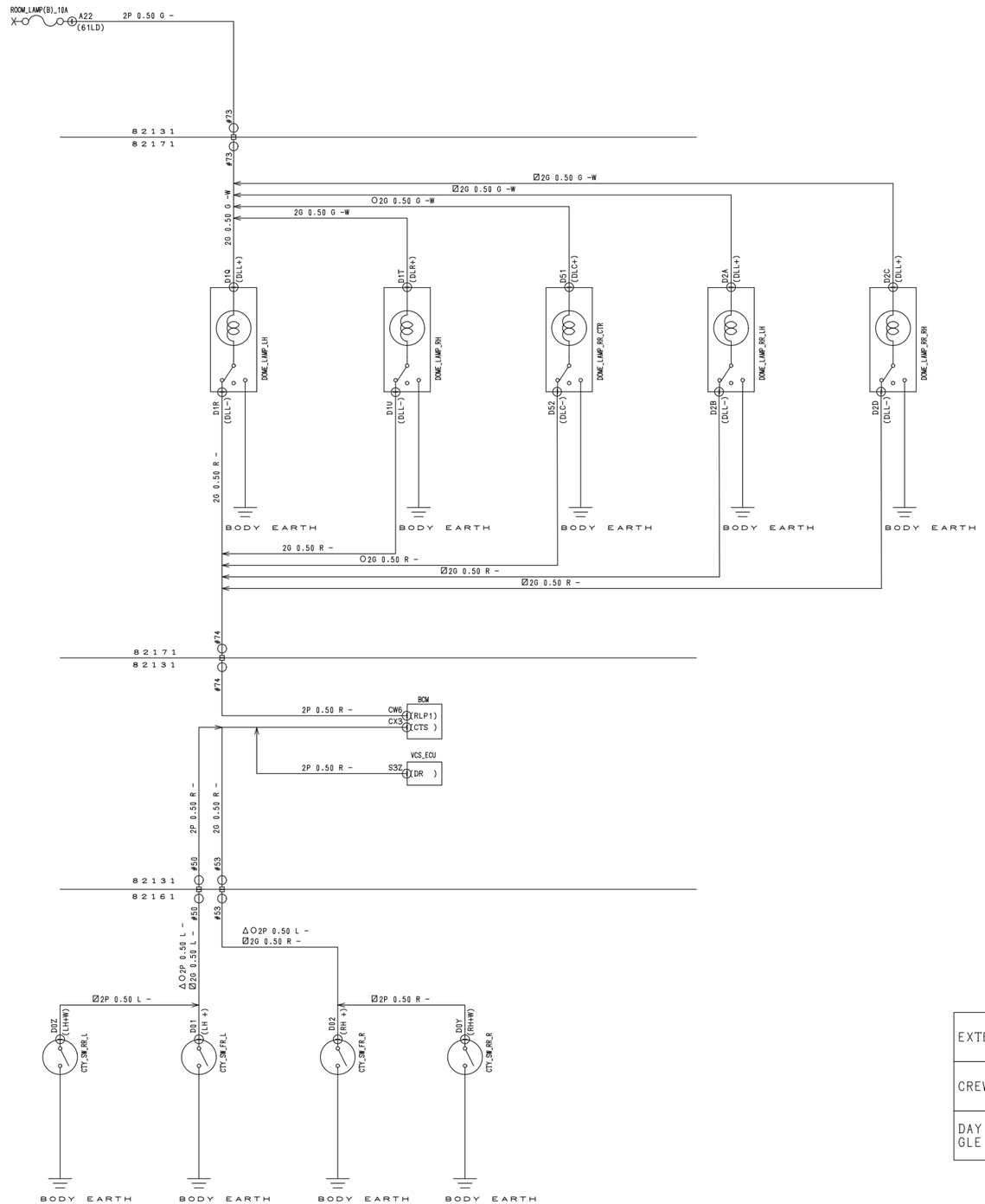
13. LED HEAD LAMP & DAY TIME RUNNING LAMP CIRCUIT



	⊟	△	□	⊠	○	✡	⋈	▥	▨
P/W	○	X	X	X	X	X	X	X	X
L/P/W	X	○	X	X	X	X	X	X	X
TRACTOR	X	X	○	X	X	X	X	X	X
TRACK	X	X	X	○	X	X	X	X	X
F/A	X	X	X	X	○	X	X	X	X
HYD	X	X	X	X	X	○	X	X	X
A09C	X	X	X	X	X	X	○	X	X
J08E+A05C	X	X	X	X	X	X	X	○	X
W/RIM_HTR	X	X	X	X	X	X	X	X	○

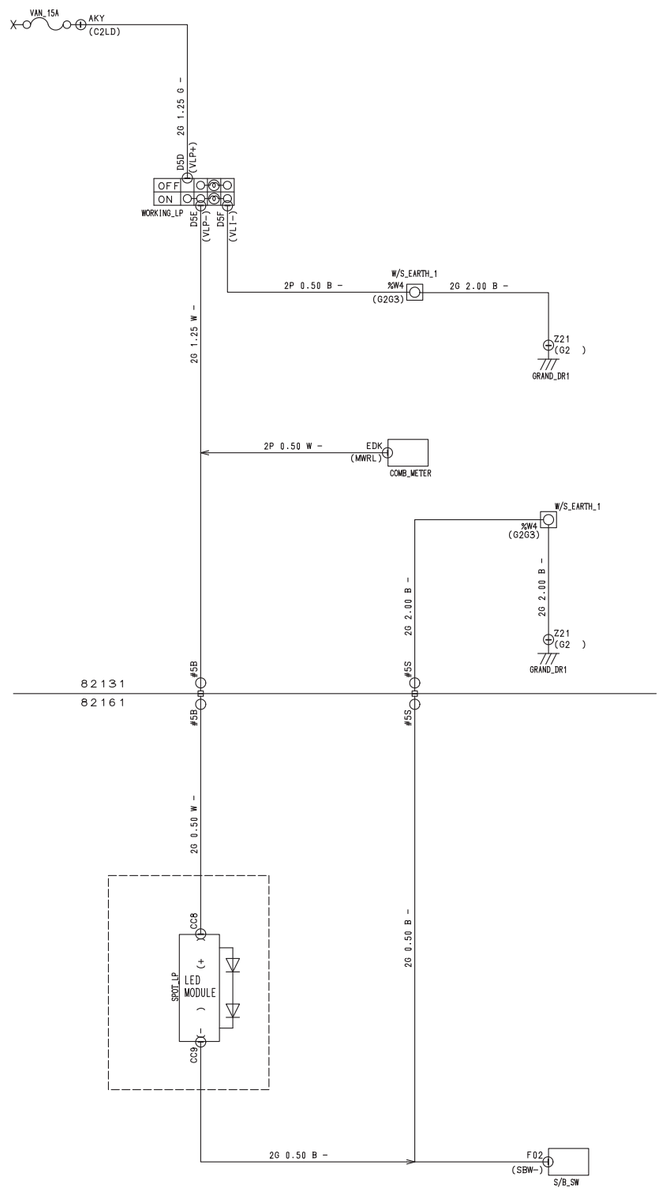
IG SW	LIGHT SW	DIM. SW	LO	HI	DAYLIGHT	TAIL
OFF	OFF	LO	OFF	OFF	OFF	OFF
		HI	OFF	OFF	OFF	OFF
		PASS	OFF	OFF	OFF	OFF
	TAIL	LO	OFF	OFF	OFF	OFF
		HI	OFF	OFF	OFF	OFF
		PASS	OFF	OFF	OFF	OFF
	HEADLAMP	LO	OFF	OFF	OFF	OFF
		HI	OFF	OFF	OFF	OFF
		PASS	OFF	OFF	OFF	OFF
ON	OFF	LO	OFF	OFF	ON	OFF
		HI	OFF	OFF	ON	OFF
		PASS	OFF	ON	ON	OFF
	TAIL	LO	OFF	OFF	OFF	ON
		HI	OFF	OFF	OFF	ON
		PASS	OFF	ON	OFF	ON
	HEADLAMP	LO	ON	OFF	OFF	ON
		HI	OFF	ON	OFF	ON
		PASS	OFF	ON	OFF	ON

14. ROOM LAMP CIRCUIT

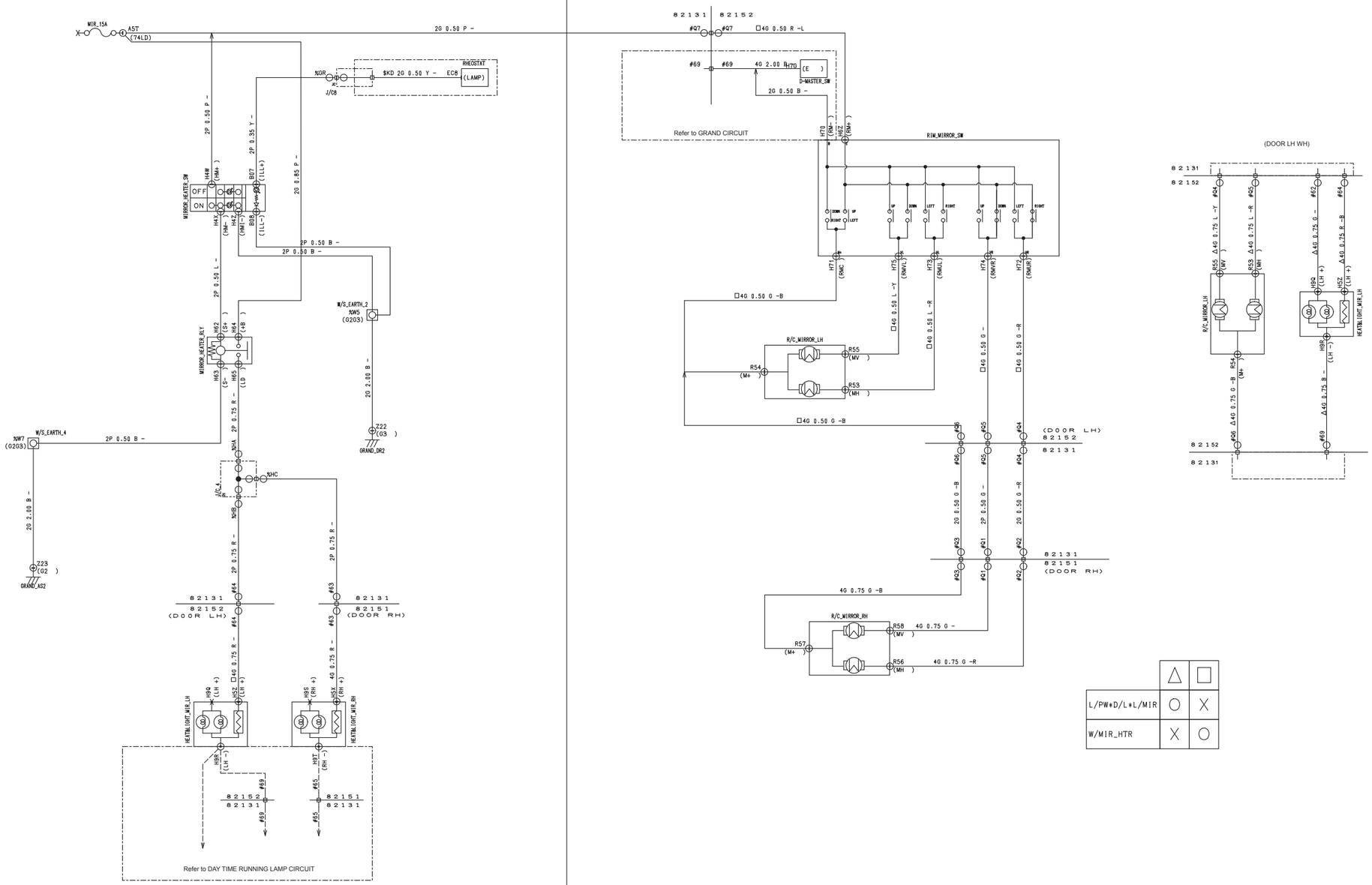


	○	⊠	△
EXTEND CAB	○	X	X
CREW CAB	X	○	X
DAY CAB or SINGLE CAB	X	X	○

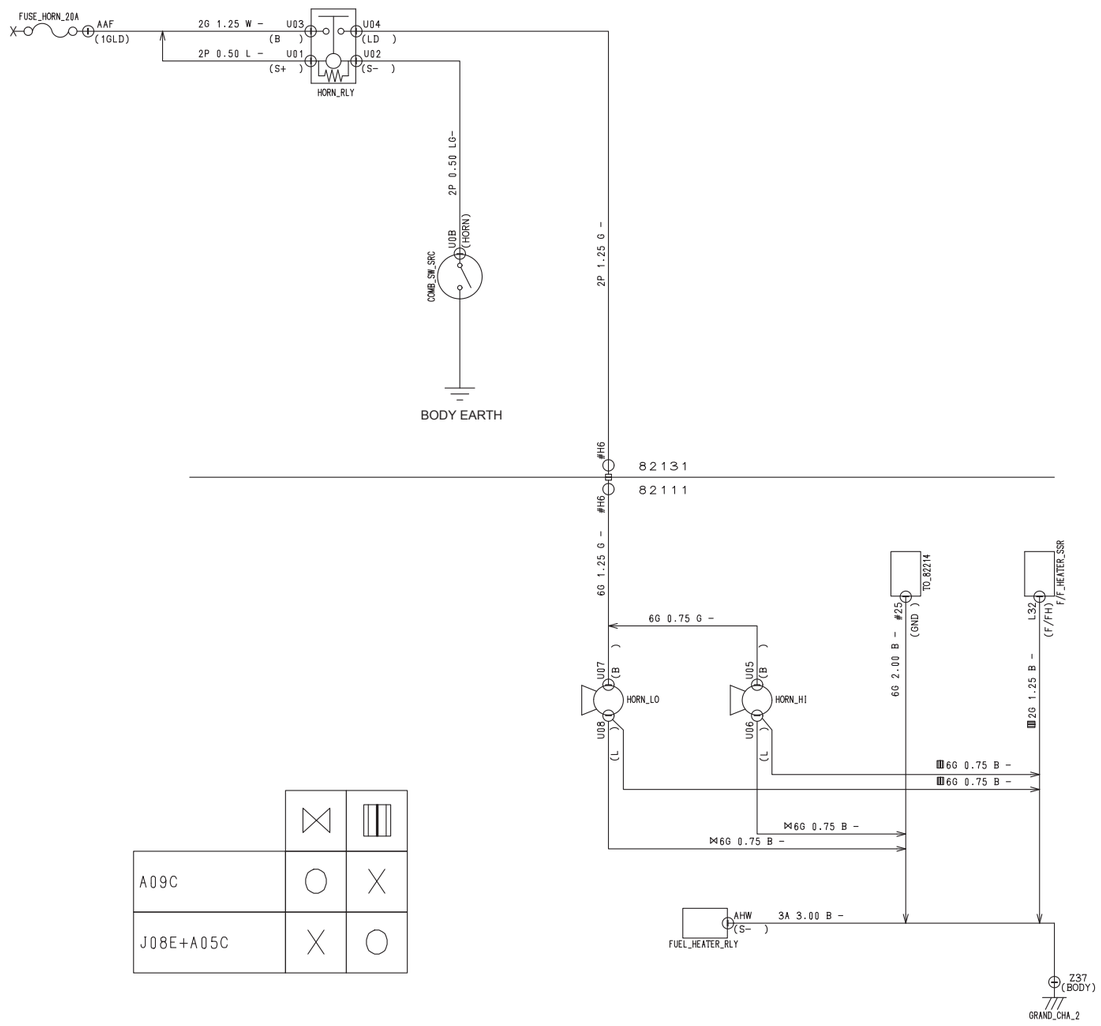
15. WORKING LAMP CIRCUIT



16. HEATING MIRROR CIRCUIT & REMOTE CONTROL MIRROR CIRCUIT

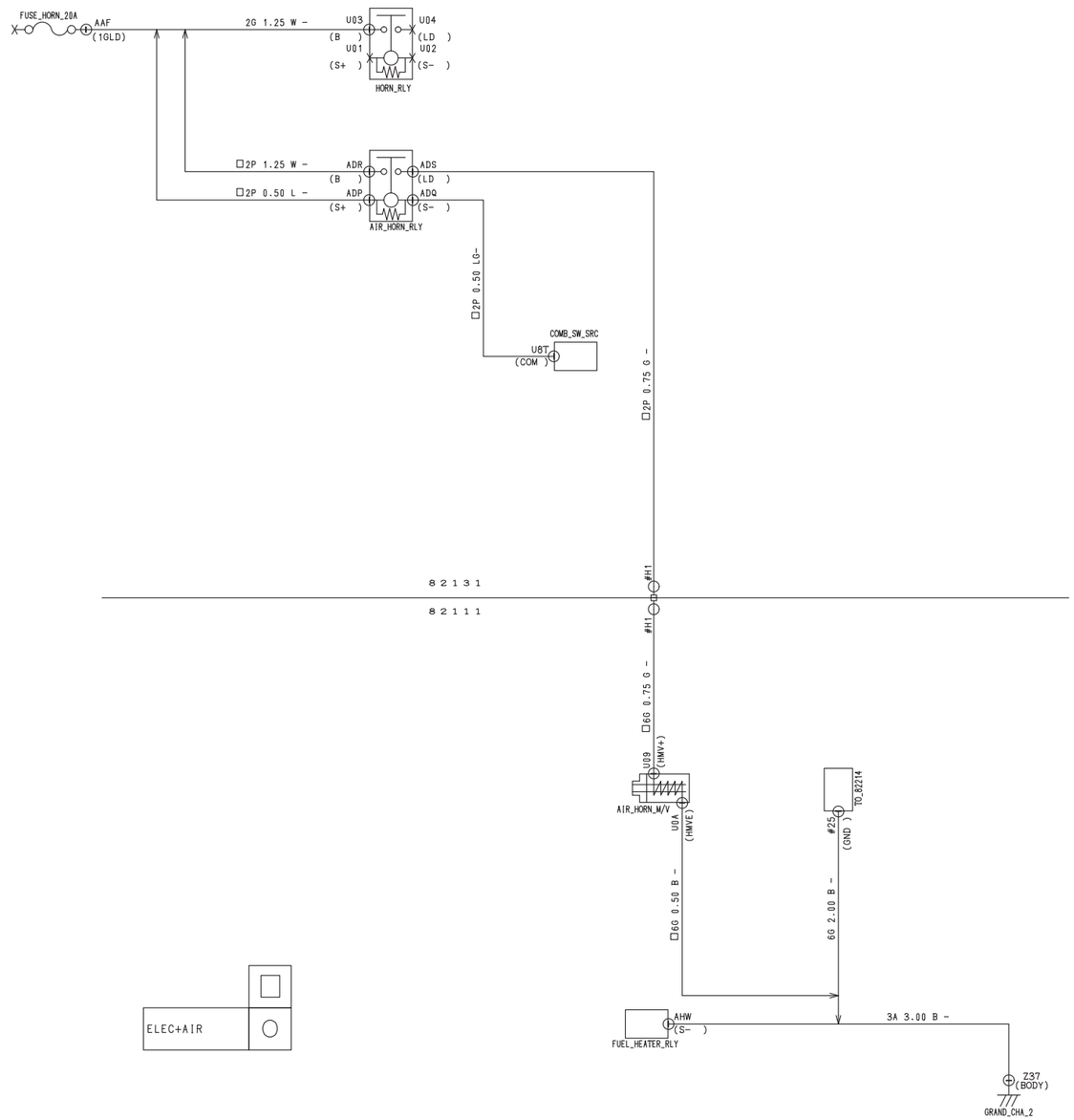


17. ELECTRICAL HORN CIRCUIT

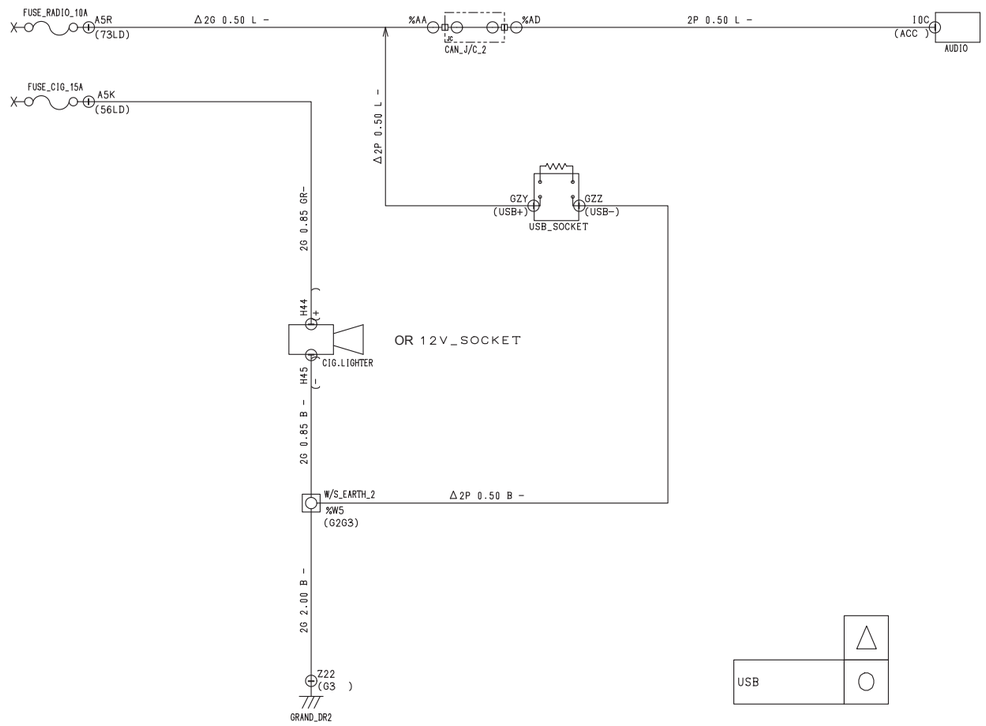


	⋈	▥
A09C	○	×
J08E+A05C	×	○

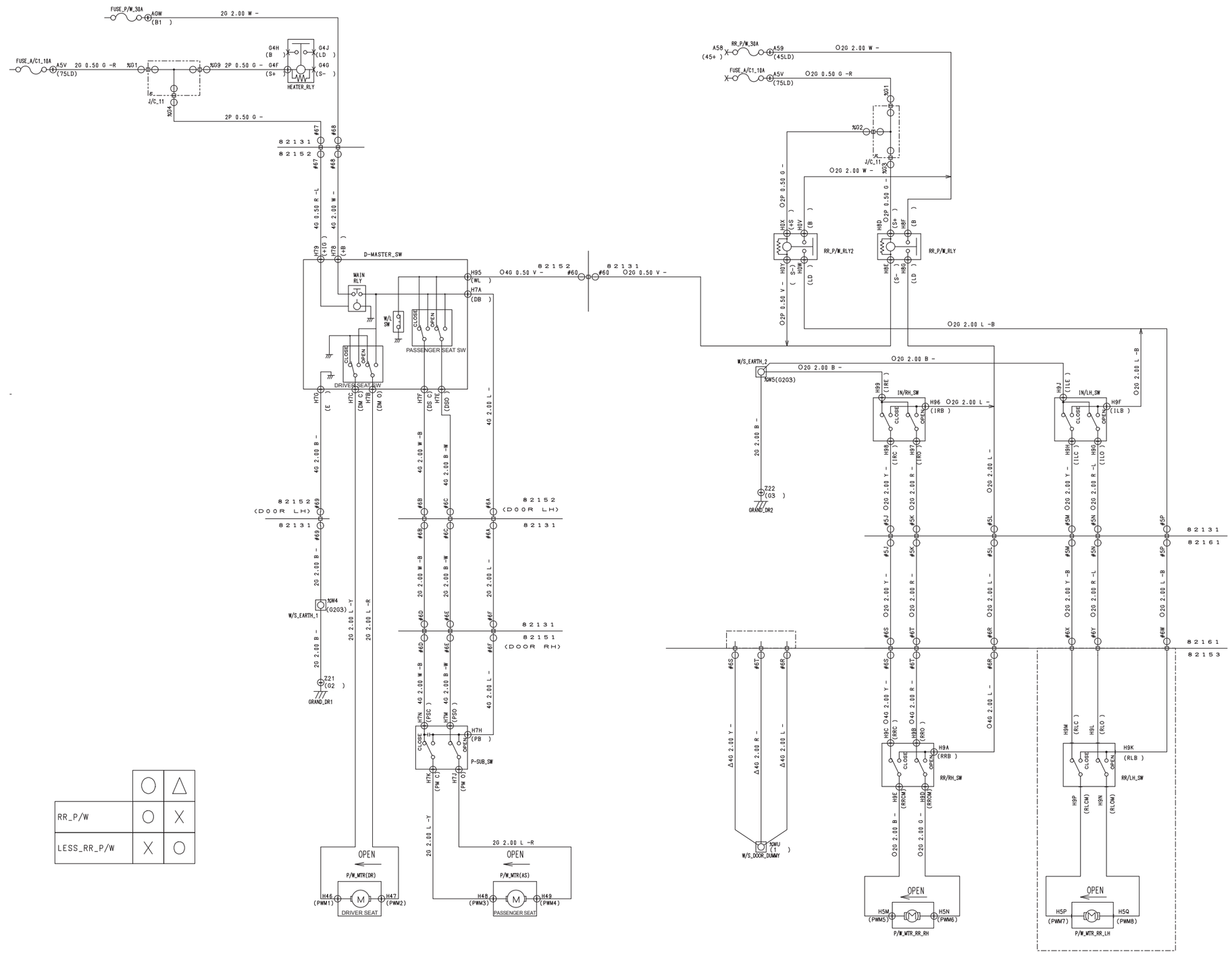
18. AIR HORN CIRCUIT



19. CIGARETTE LIGHTER & ACC. SOCKET CIRCUIT

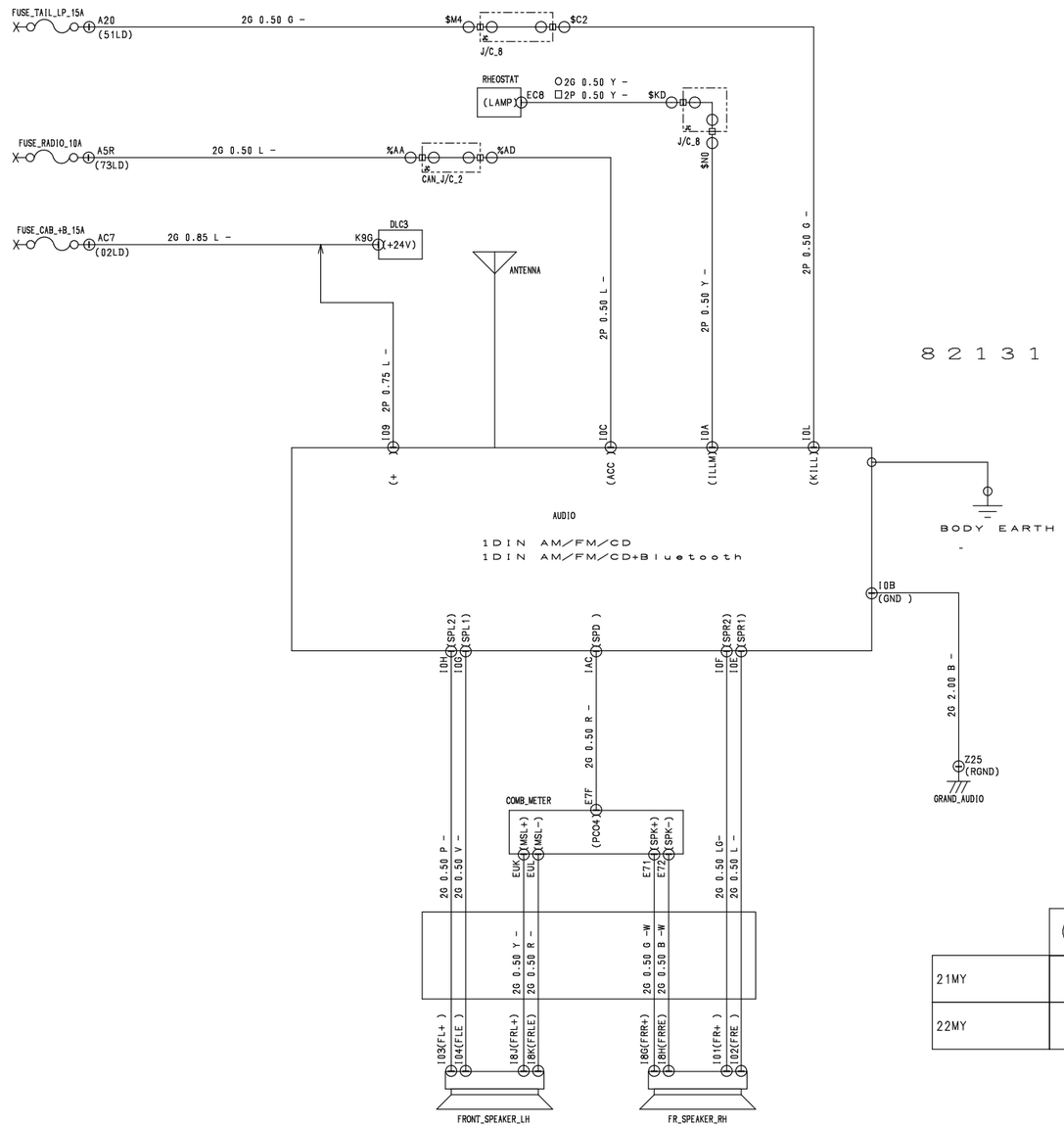


20. POWER WINDOW CIRCUIT



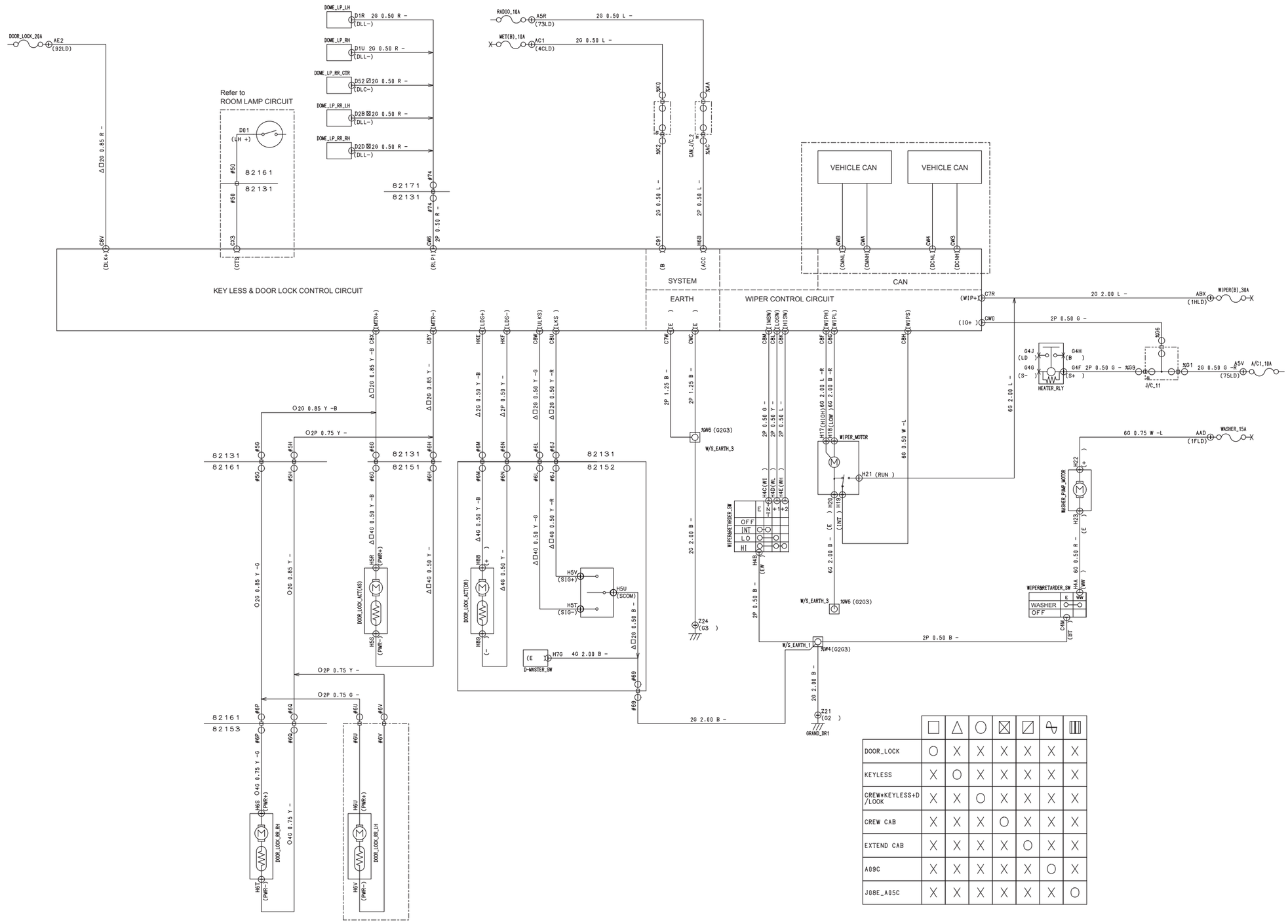
	○	△
RR_P/W	○	×
LESS_RR_P/W	×	○

21. AUDIO CIRCUIT



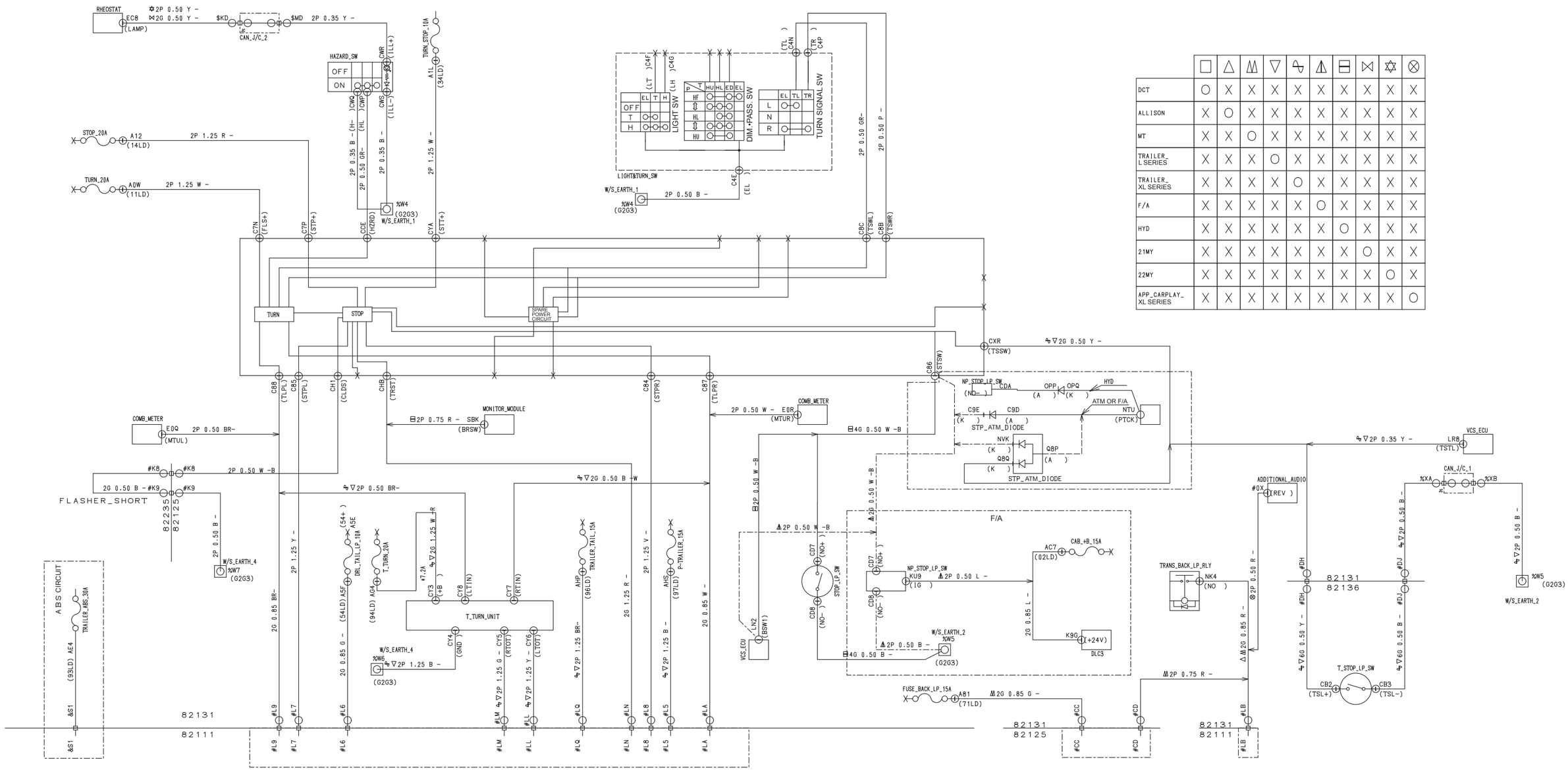
	○	□
21MY	○	×
22MY	×	○

22. BODY CONTROL CIRCUIT_POWER D/L & KEY LESS ENTRY



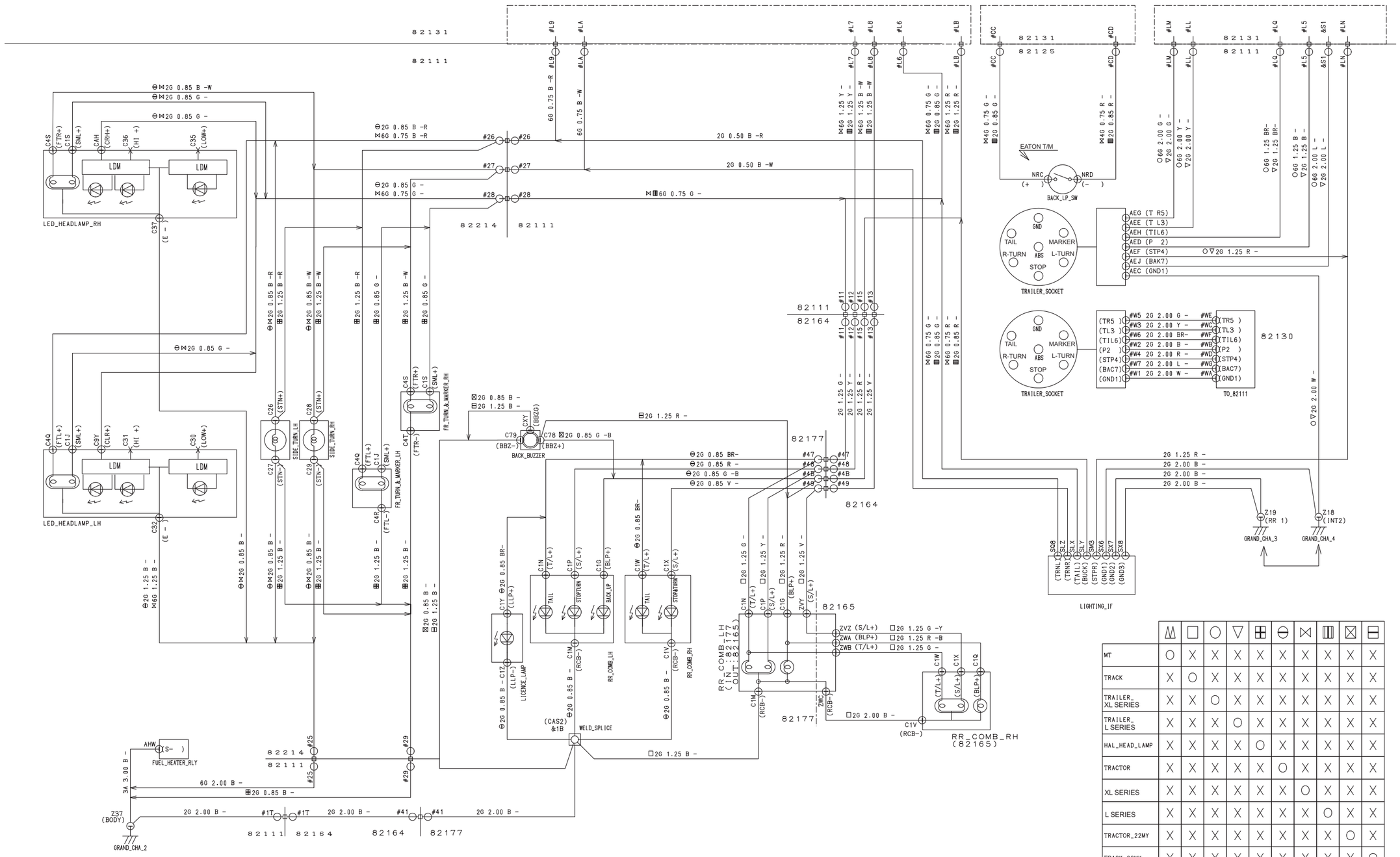
	□	△	○	⊠	◪		▥
DOOR_LOCK	○	X	X	X	X	X	X
KEYLESS	X	○	X	X	X	X	X
CREW*KEYLESS+D/LOOK	X	X	○	X	X	X	X
CREW CAB	X	X	X	○	X	X	X
EXTEND CAB	X	X	X	X	○	X	X
A09C	X	X	X	X	X	○	X
J08E_A05C	X	X	X	X	X	X	○

23. BODY CONTROL CIRCUIT_CAB



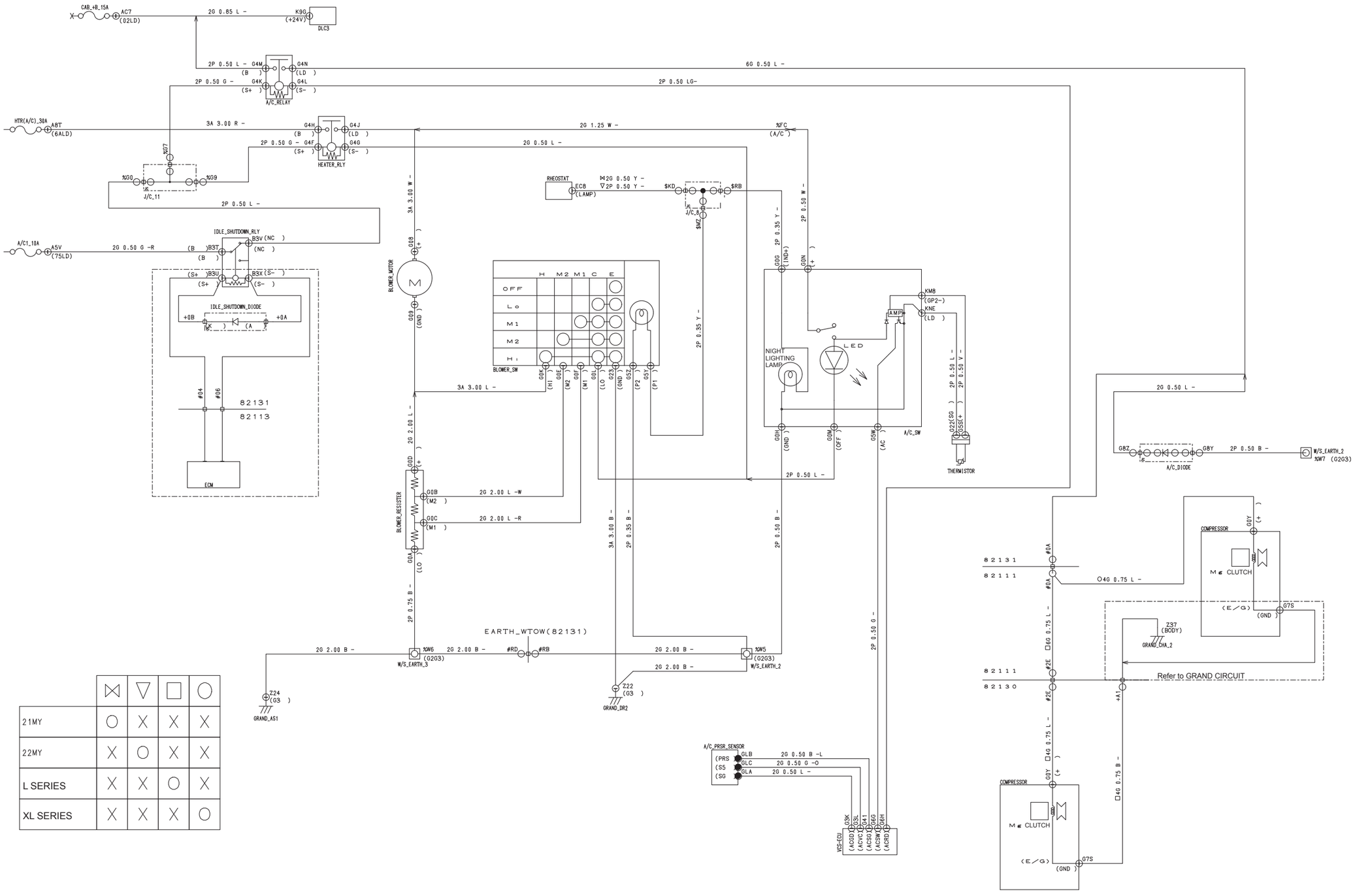
	□	△	⩚	▽	⚢	⚠	⊟	⋈	✡	⊗
DCT	○	X	X	X	X	X	X	X	X	X
ALLISON	X	○	X	X	X	X	X	X	X	X
MT	X	X	○	X	X	X	X	X	X	X
TRAILER_ L SERIES	X	X	X	○	X	X	X	X	X	X
TRAILER_ XL SERIES	X	X	X	X	○	X	X	X	X	X
F/A	X	X	X	X	X	○	X	X	X	X
HYD	X	X	X	X	X	X	○	X	X	X
21MY	X	X	X	X	X	X	X	○	X	X
22MY	X	X	X	X	X	X	X	X	○	X
APP_CARPLAY_ XL SERIES	X	X	X	X	X	X	X	X	X	○

24. BODY CONTROL CIRCUIT_CHASSIS



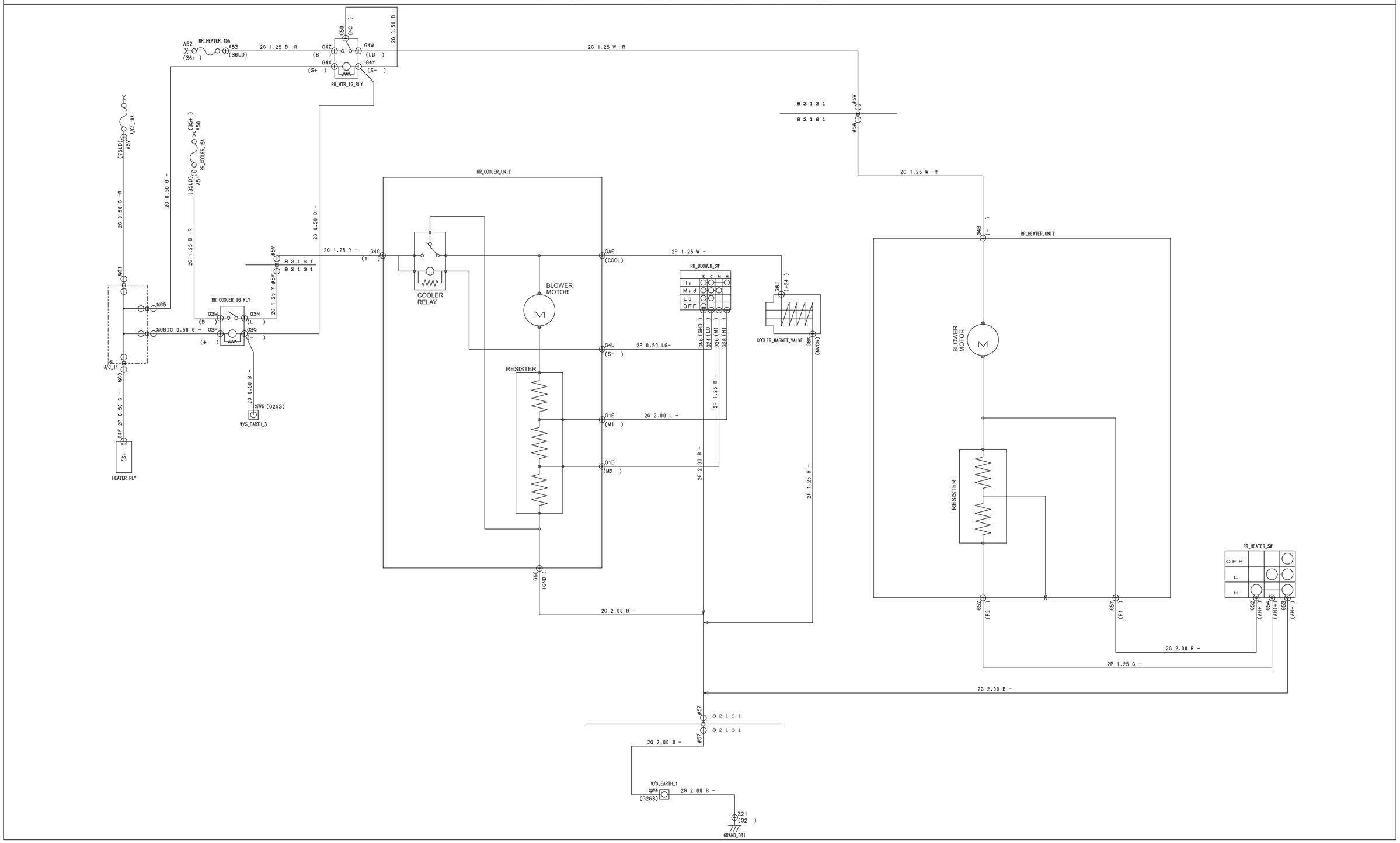
	⋔	□	○	▽	⊞	⊖	⋈	▥	⊠	⊟
MT	○	X	X	X	X	X	X	X	X	X
TRACK	X	○	X	X	X	X	X	X	X	X
TRAILER_ XL SERIES	X	X	○	X	X	X	X	X	X	X
TRAILER_ L SERIES	X	X	X	○	X	X	X	X	X	X
HAL_HEAD_LAMP	X	X	X	X	○	X	X	X	X	X
TRACTOR	X	X	X	X	X	○	X	X	X	X
XL SERIES	X	X	X	X	X	X	○	X	X	X
L SERIES	X	X	X	X	X	X	X	○	X	X
TRACTOR_22MY	X	X	X	X	X	X	X	X	○	X
TRACK_22MY	X	X	X	X	X	X	X	X	X	○

25. MANUAL AIR CONDITIONER CIRCUIT

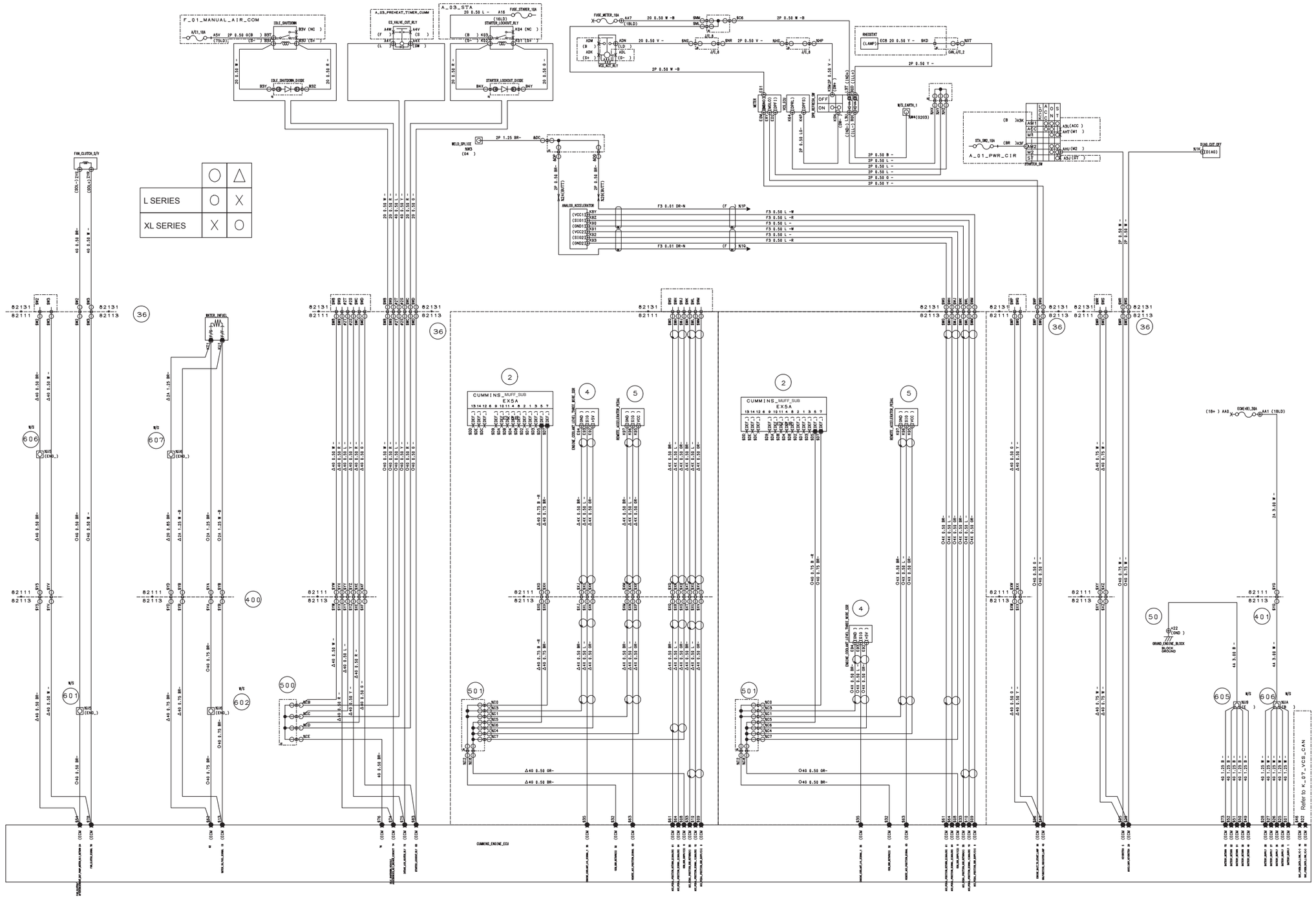


	⋈	▽	□	○
21MY	○	X	X	X
22MY	X	○	X	X
L SERIES	X	X	○	X
XL SERIES	X	X	X	○

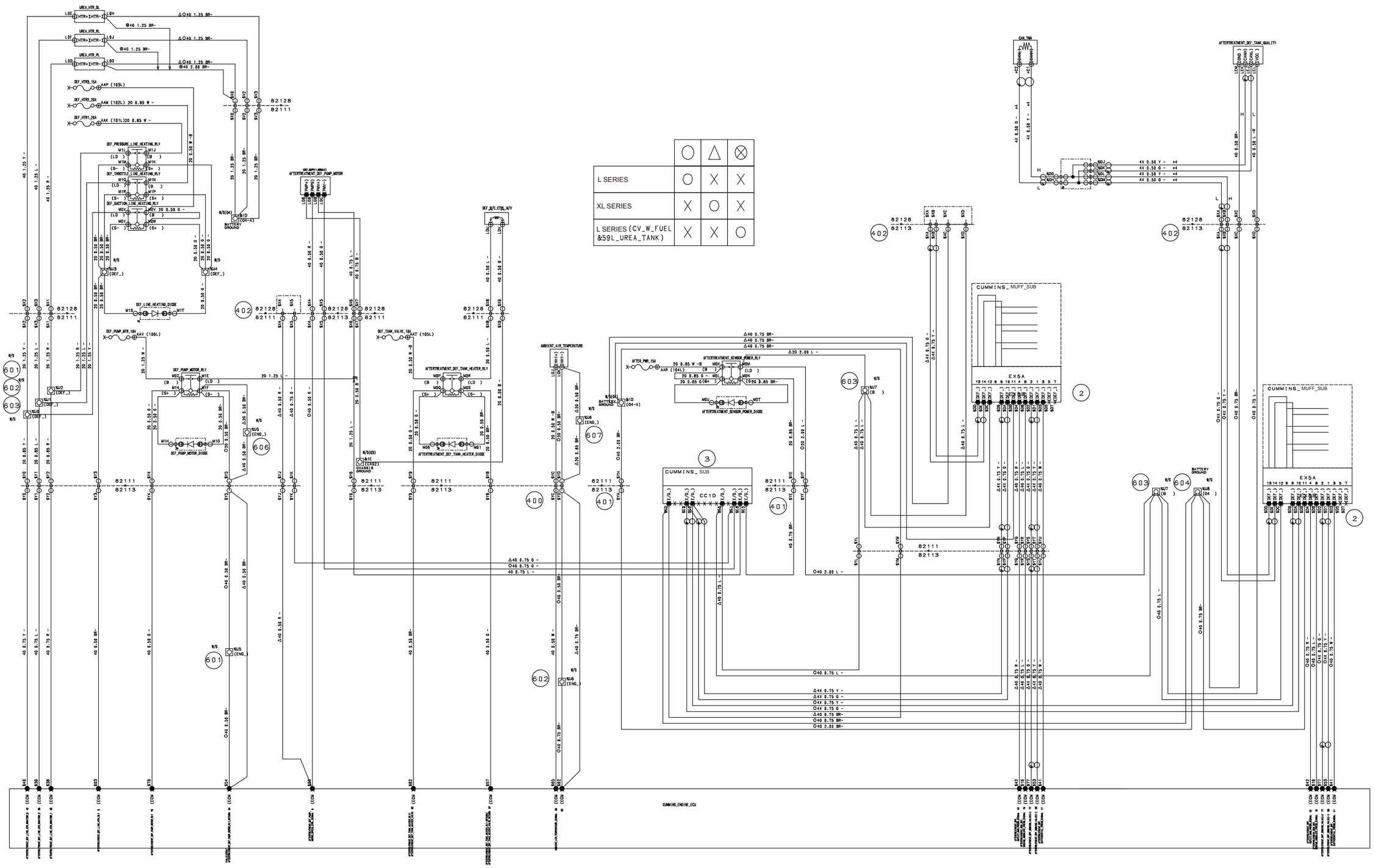
26. REAR COOLER & REAR HEATER CIRCUIT



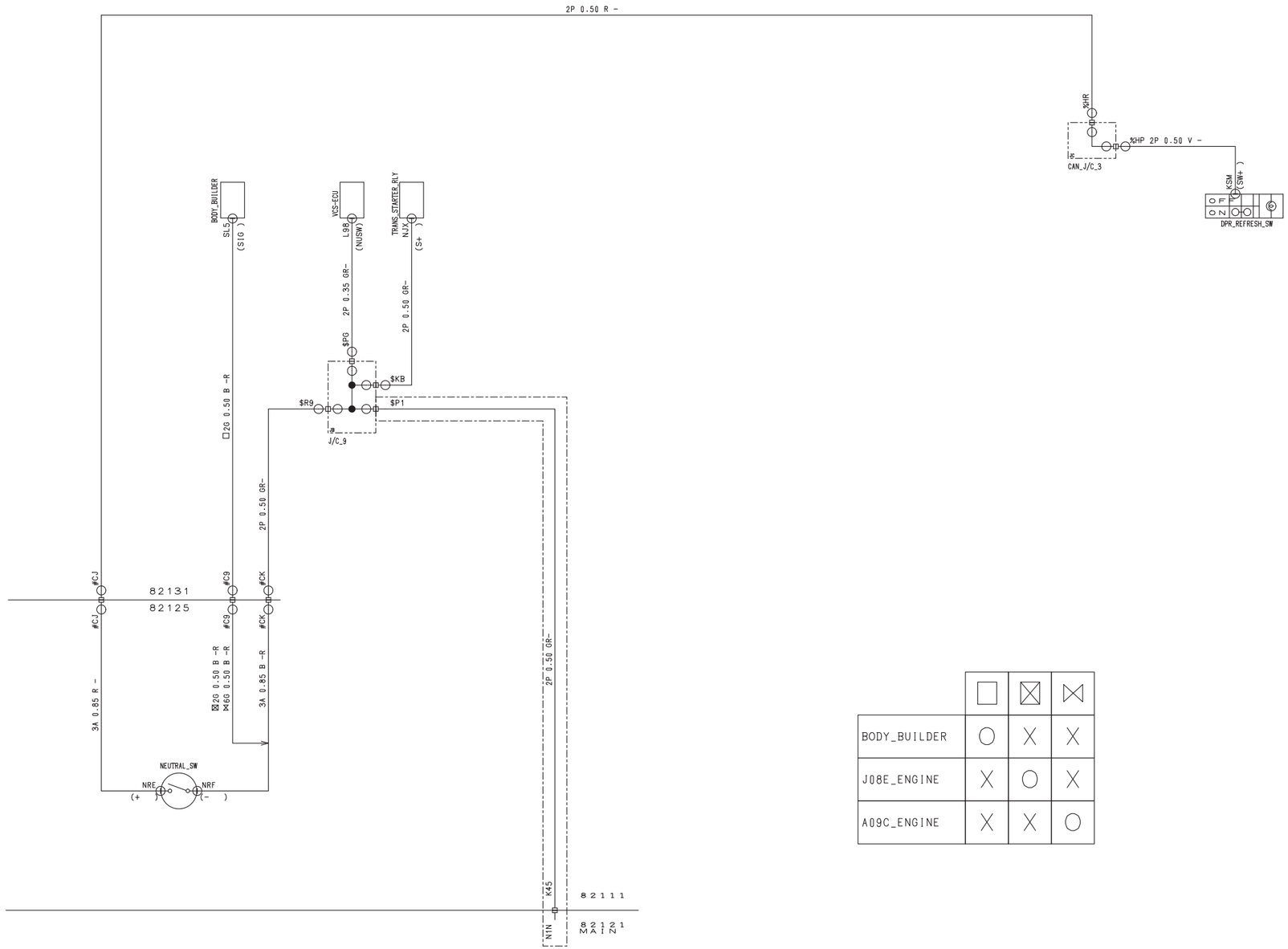
27. CUMMINZ ENGINE ECU & ECM CIRCUIT



28. AFTERTRATMENT SYSTEM CIRCUIT

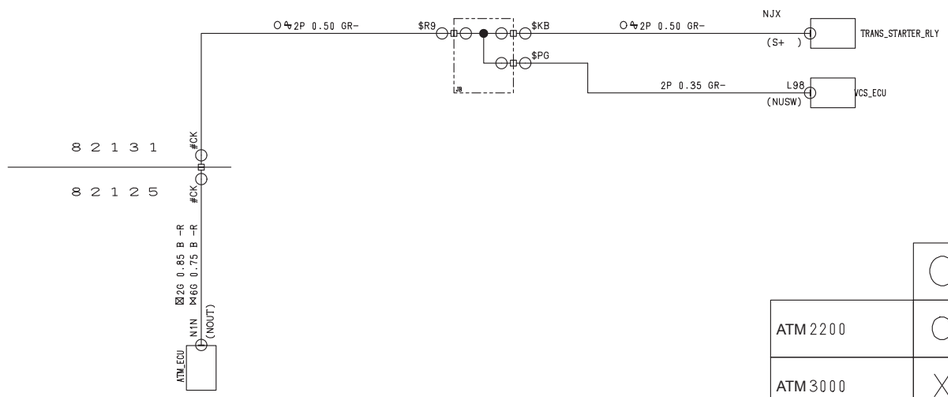


29. COMMON RAIL CIRCUIT_MTM EXHAUST BRAKE



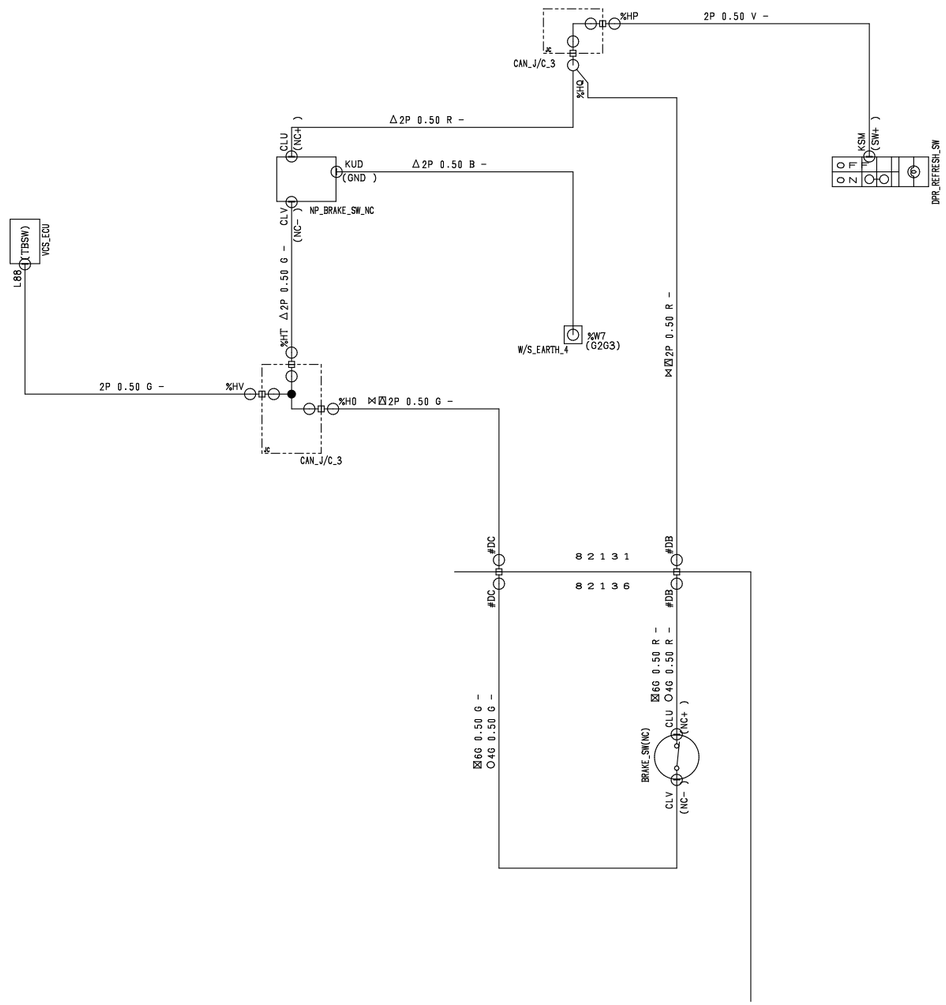
	□	⊠	⋈
BODY_BUILDER	○	×	×
J08E_ENGINE	×	○	×
A09C_ENGINE	×	×	○

30. COMMON RAIL CIRCUIT_ATM EXHAUST BRAKE



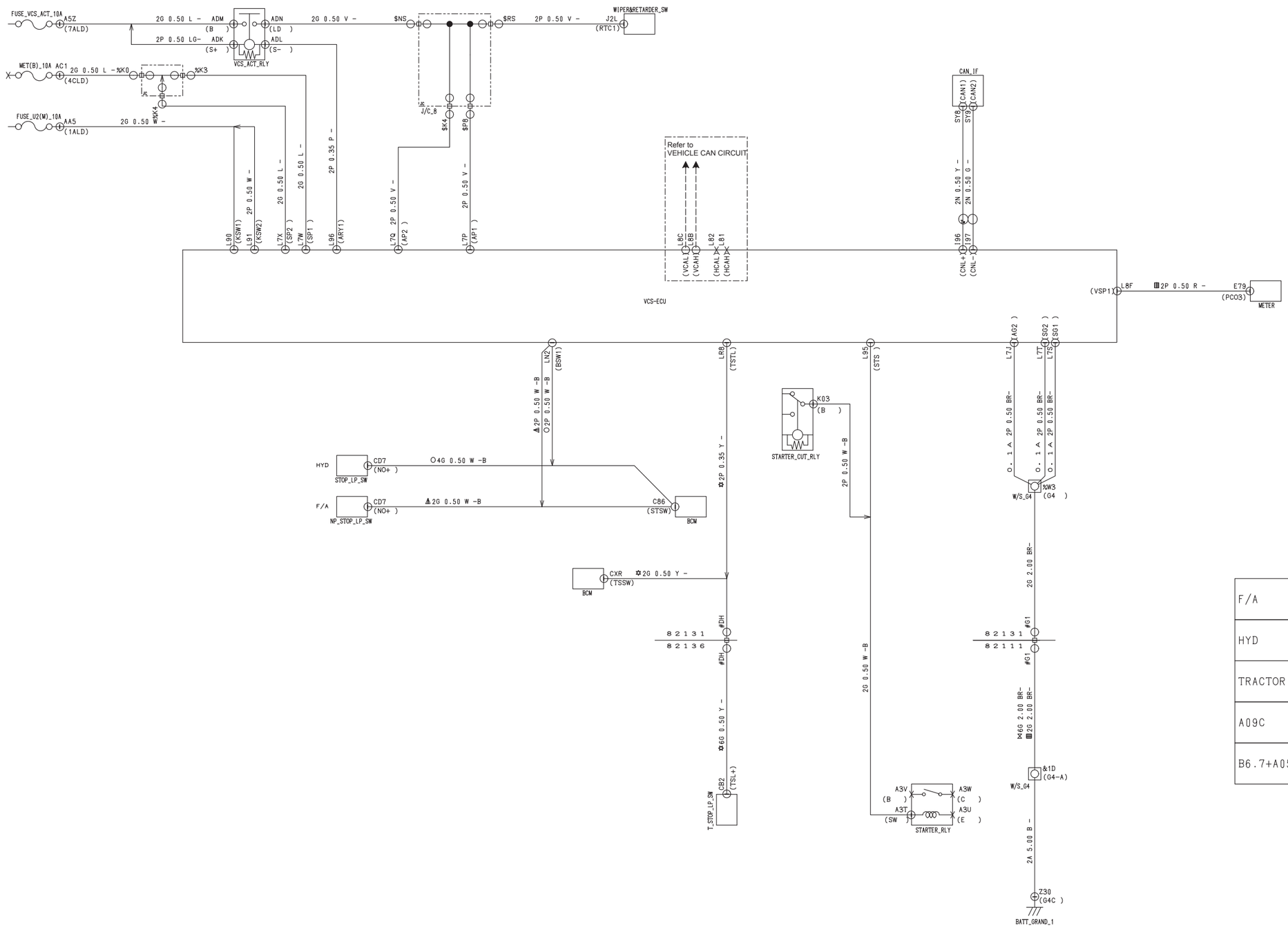
	○	∿	□	⊠	⋈
ATM 2200	○	X	X	X	X
ATM 3000	X	○	X	X	X
BODY_BUILDER	X	X	○	X	X
J08E_ENGINE	X	X	X	○	X
A09C_ENGINE	X	X	X	X	○

31. COMMON RAIL CIRCUIT_FS CURSE



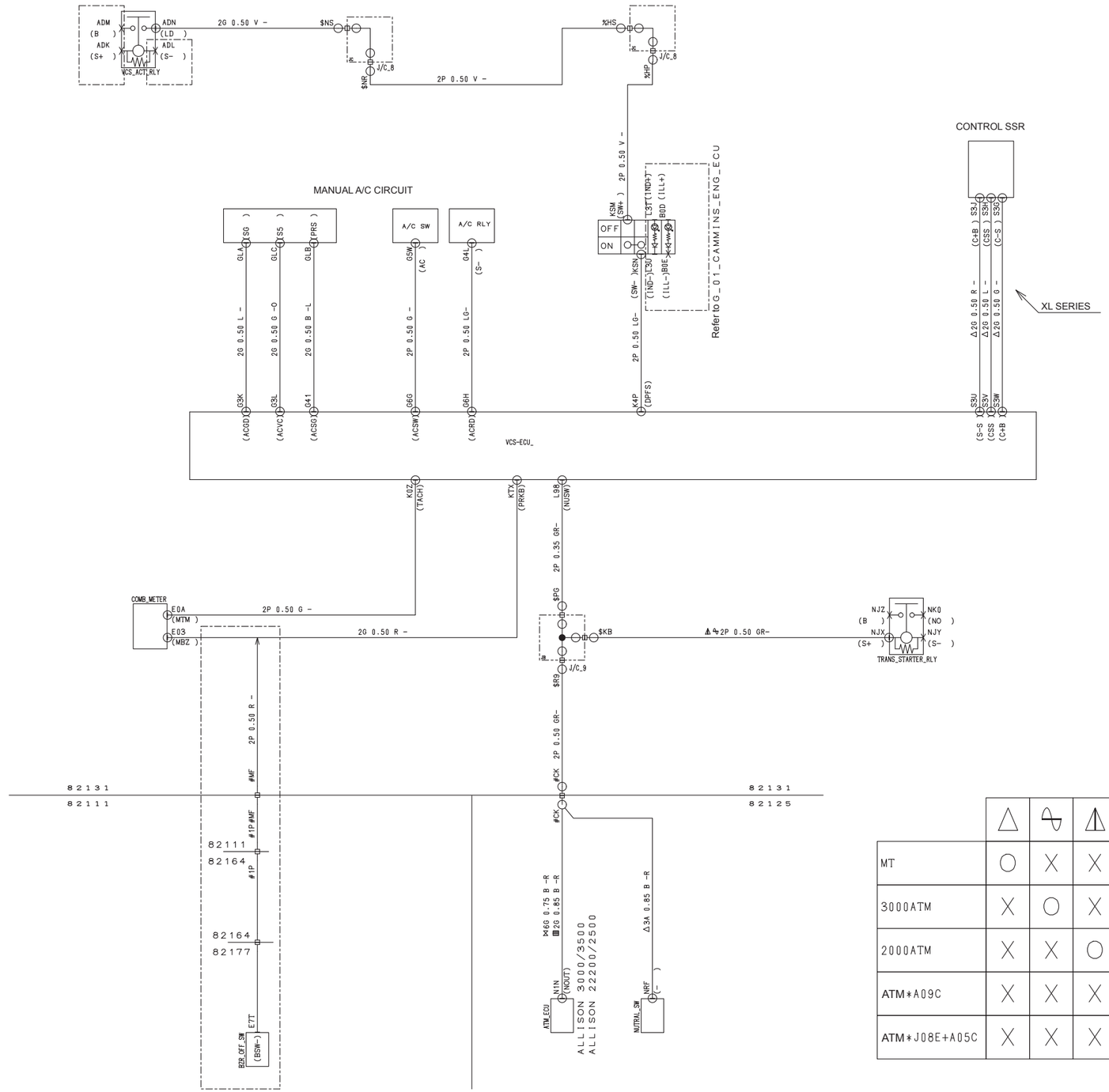
	⋈	⊠	△	□	✡	○	⊠
F/A_A09C	○	X	X	X	X	X	X
F/A_(J08E+A05C)	X	○	X	X	X	X	X
HYD	X	X	○	X	X	X	X
J08E_ENGINE	X	X	X	○	X	X	X
A05C_ENGINE	X	X	X	X	○	X	X
F/A_TRUCK	X	X	X	X	X	○	X
F/A_TRAILER	X	X	X	X	X	X	○

32. VEHICLE CONTROL ECU CIRCUIT_1



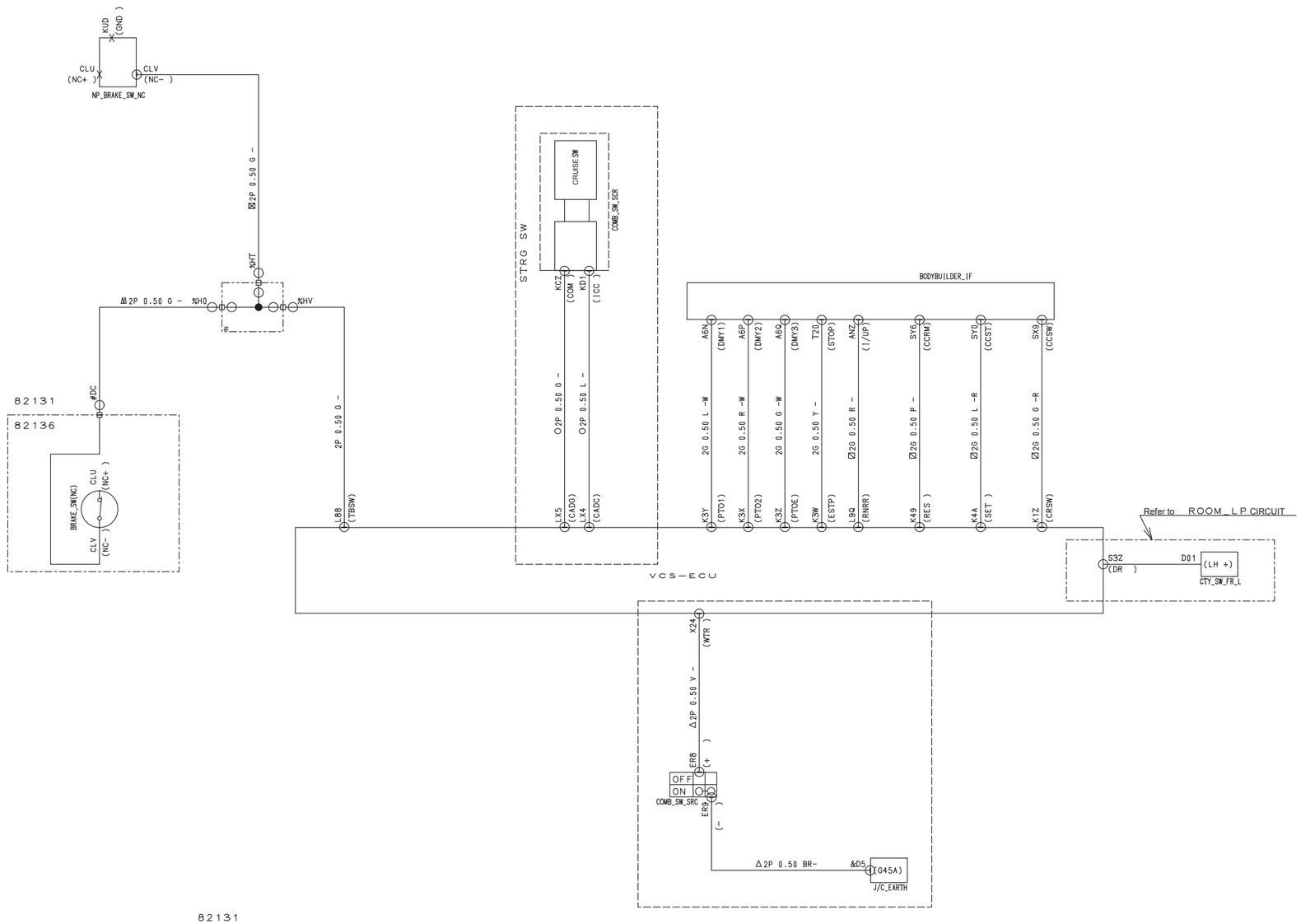
	△	○	✡	⋈	▥
F/A	○	X	X	X	X
HYD	X	○	X	X	X
TRACTOR	X	X	○	X	X
A09C	X	X	X	○	X
B6.7+A05C	X	X	X	X	○

33. VEHICLE CONTROL ECU CIRCUIT_2



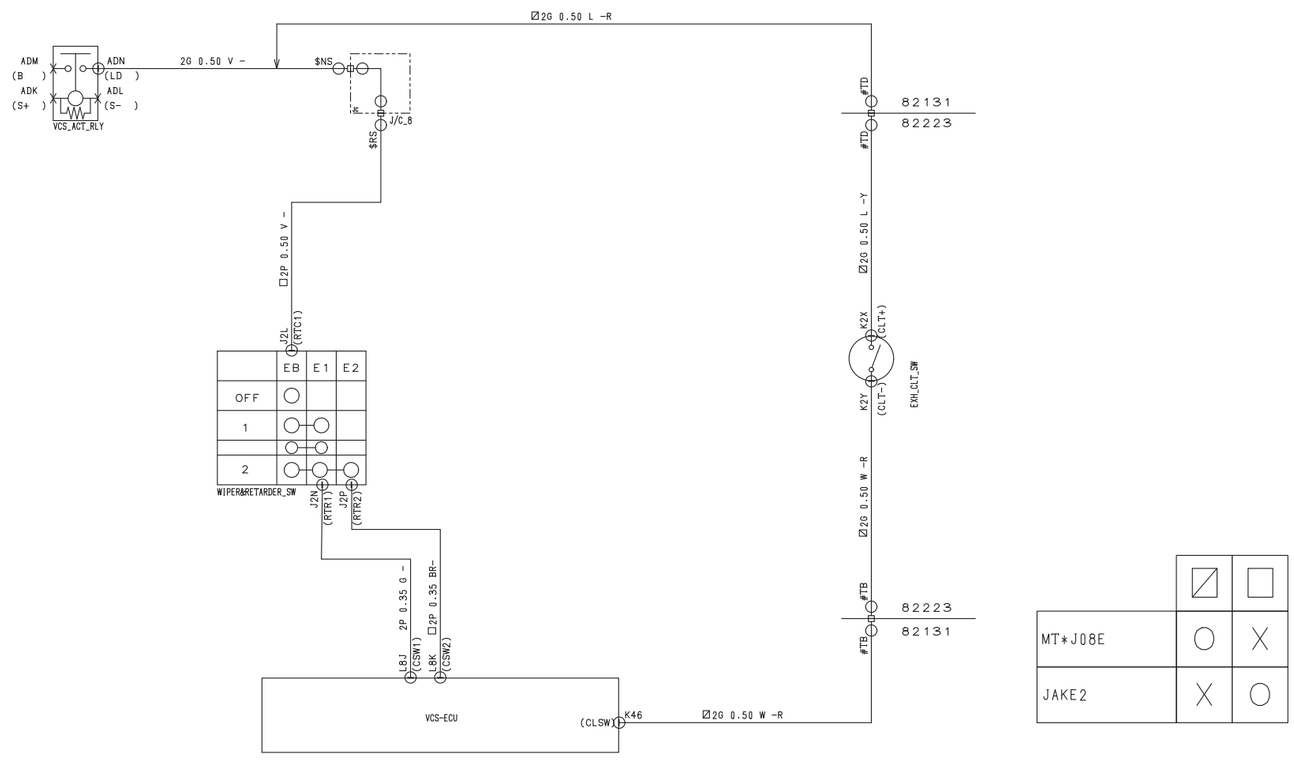
	△	∿	⧋	⋈	▥
MT	○	×	×	×	×
3000ATM	×	○	×	×	×
2000ATM	×	×	○	×	×
ATM*A09C	×	×	×	○	×
ATM*J08E+A05C	×	×	×	×	○

34. VEHICLE CONTROL ECU CIRCUIT_3

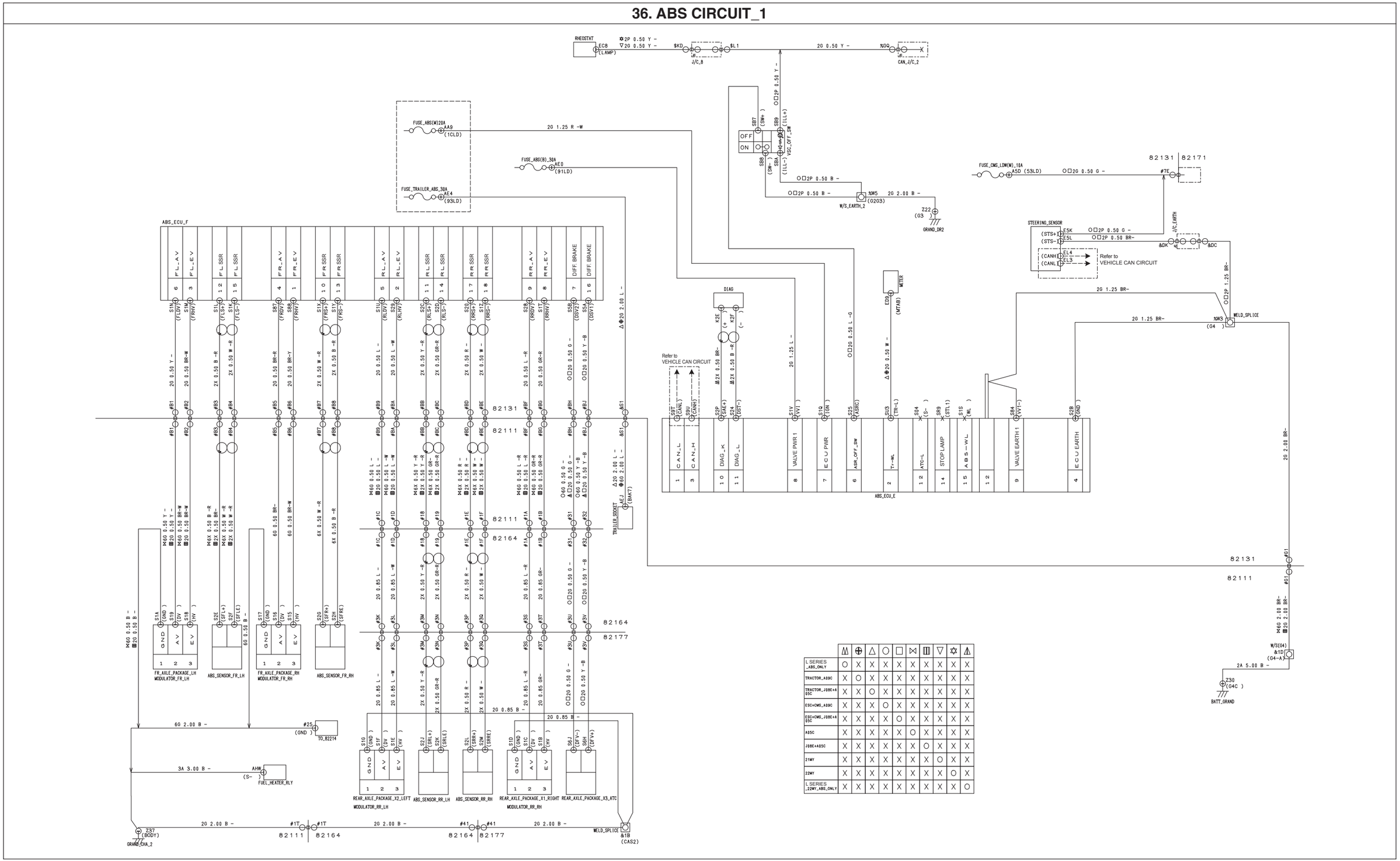


	◪	⊠	⩚	○	△
KASOU	○	X	X	X	X
HYD	X	○	X	X	X
F/A	X	X	○	X	X
FS_CRUISE	X	X	X	○	X
SHAKAN_CRUSE	X	X	X	X	○

35. VEHICLE CONTROL ECU CIRCUIT_4 (EXHAUST BRAKE)

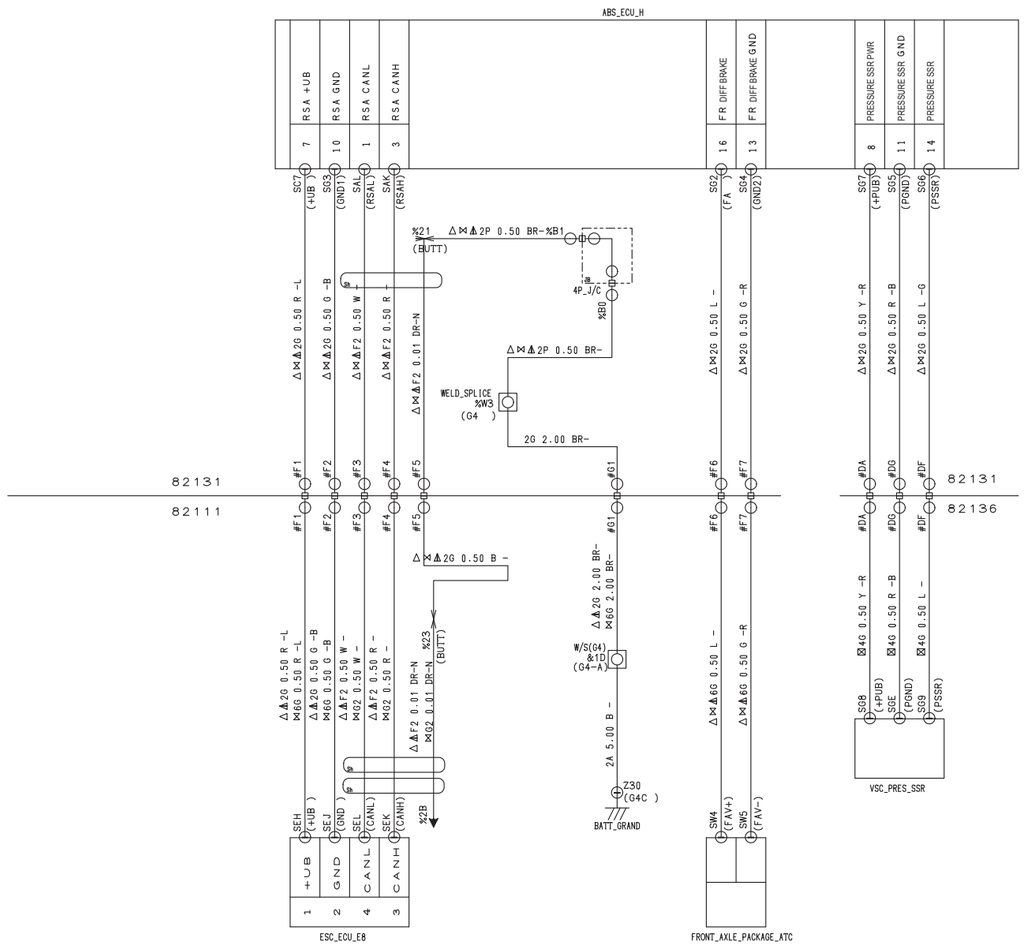


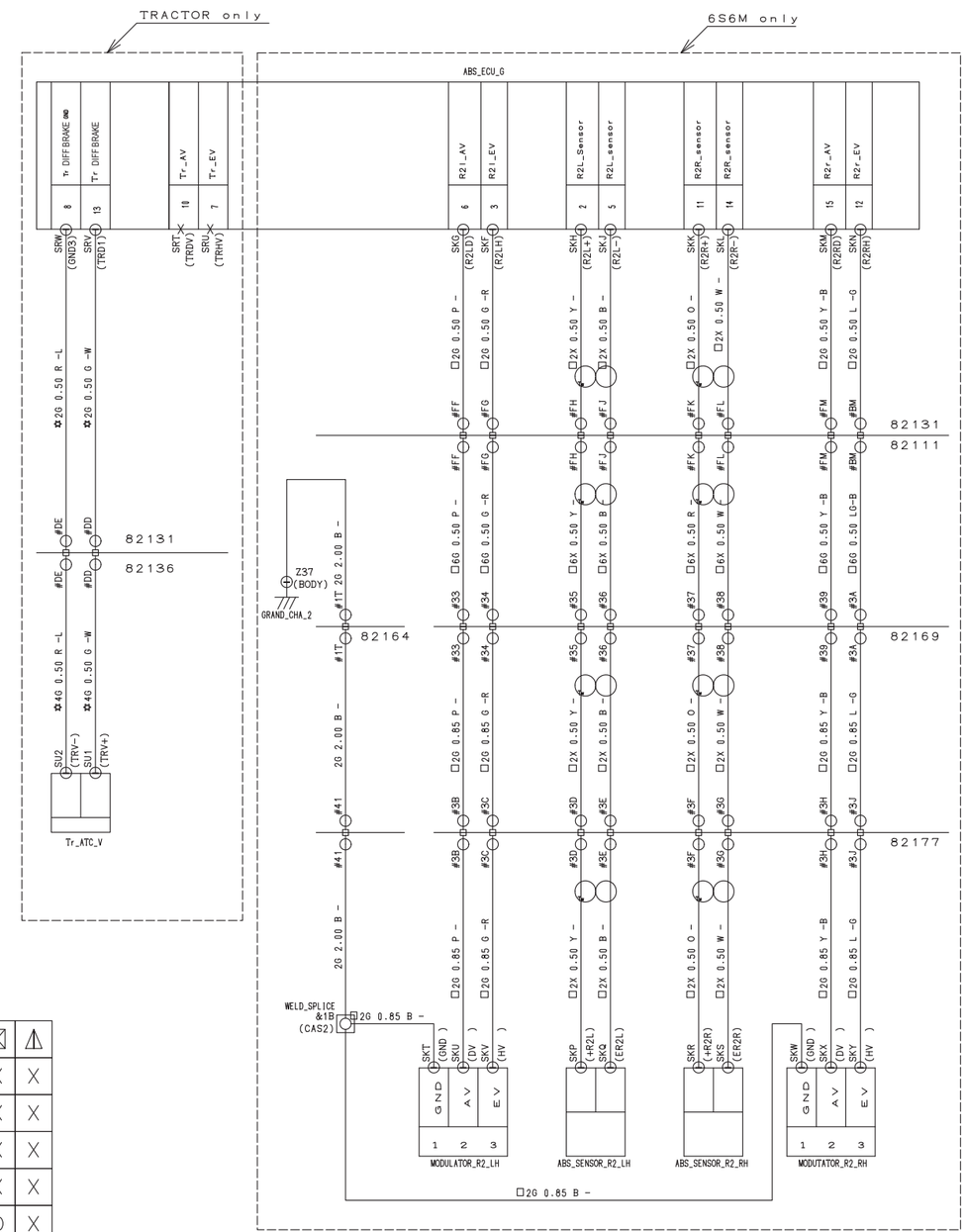
36. ABS CIRCUIT_1



	△1	⊕	△	○	□	⋈	▥	▽	✡	△1
L SERIES _ABS_ONLY	○	X	X	X	X	X	X	X	X	X
TRACTOR_A05C	X	○	X	X	X	X	X	X	X	X
TRACTOR_J08E+A05C	X	X	○	X	X	X	X	X	X	X
ESC+CMS_A05C	X	X	X	○	X	X	X	X	X	X
ESC+CMS_J08E+A05C	X	X	X	X	○	X	X	X	X	X
A05C	X	X	X	X	X	○	X	X	X	X
J08E+A05C	X	X	X	X	X	X	○	X	X	X
21WY	X	X	X	X	X	X	X	○	X	X
22WY	X	X	X	X	X	X	X	X	○	X
L SERIES _22WY_ABS_ONLY	X	X	X	X	X	X	X	X	X	○

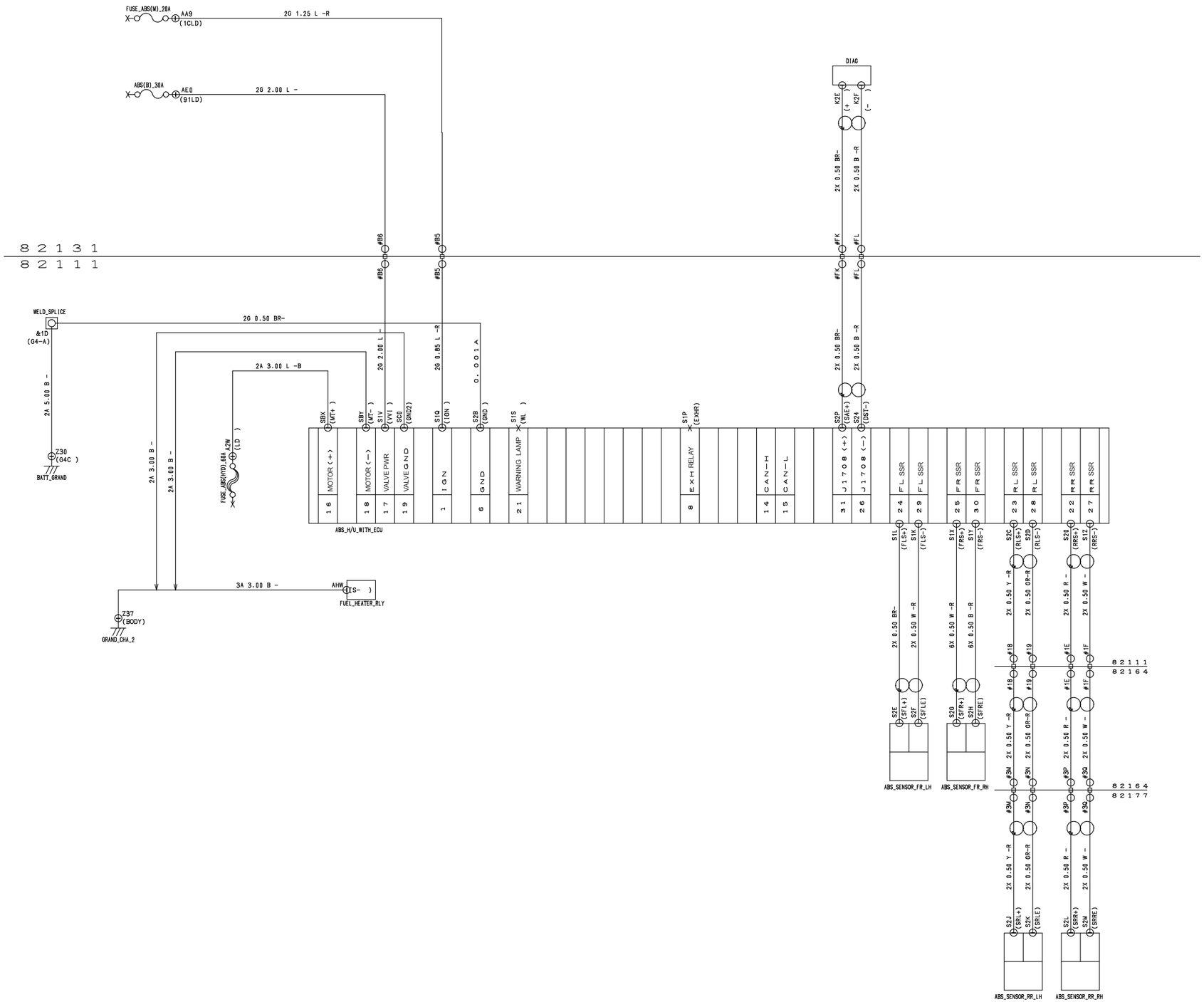
37. ABS CIRCUIT_2



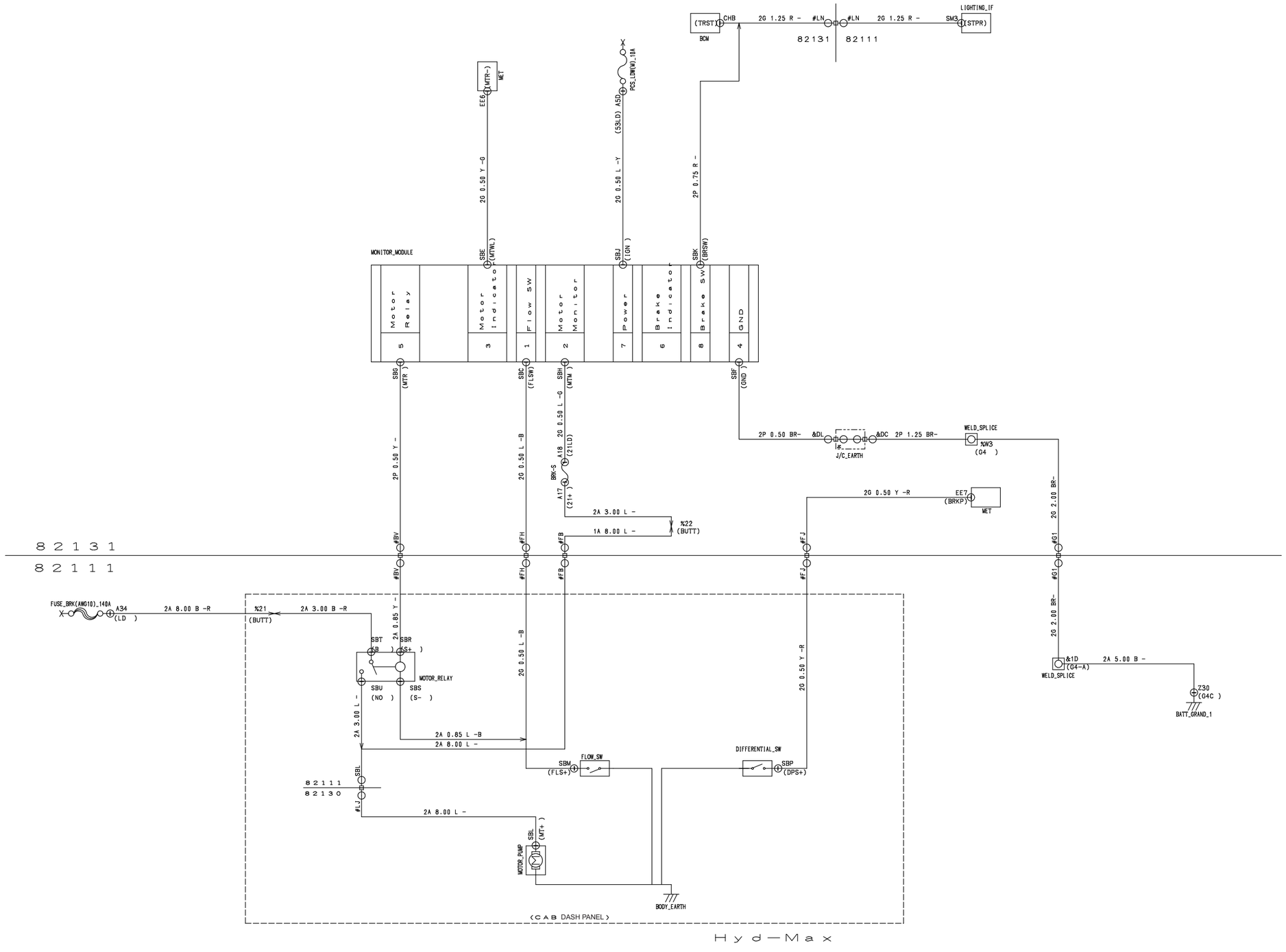


	✡	△	⋈	□	⊠	◭
TRACTOR	○	X	X	X	X	X
VSC_CMS_J08E+A05C	X	○	X	X	X	X
VSC_CMS_A09C	X	X	○	X	X	X
6S6M	X	X	X	○	X	X
VSC_CMS	X	X	X	X	○	X
L SERIES _22MY_ABS_ONLY	X	X	X	X	X	○

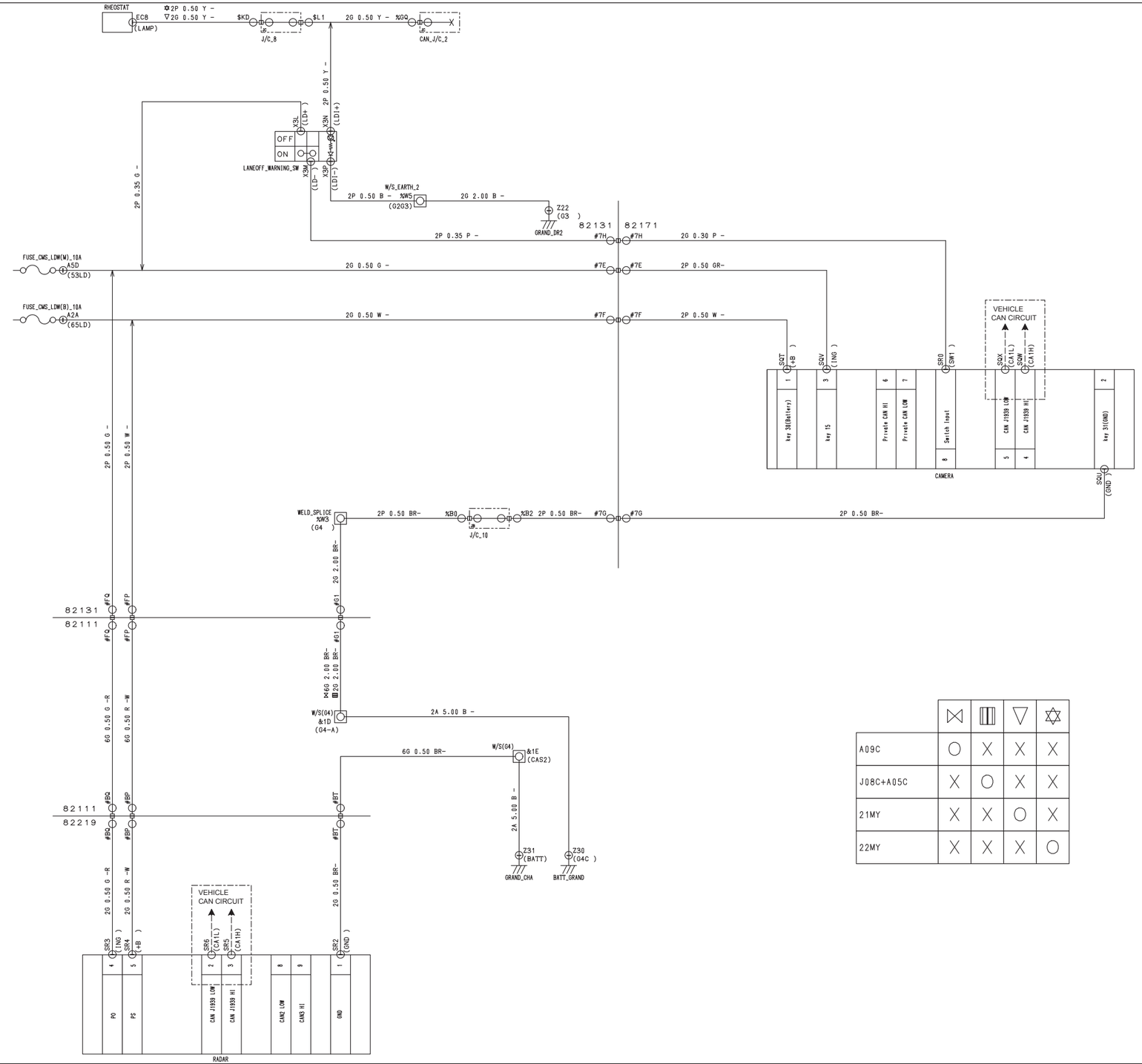
38. ABS CIRCUIT_3 (HYDRAULIC BRAKE Ver. E)



39. HYDRAULIC BRAKE SYSTEM CIRCUIT

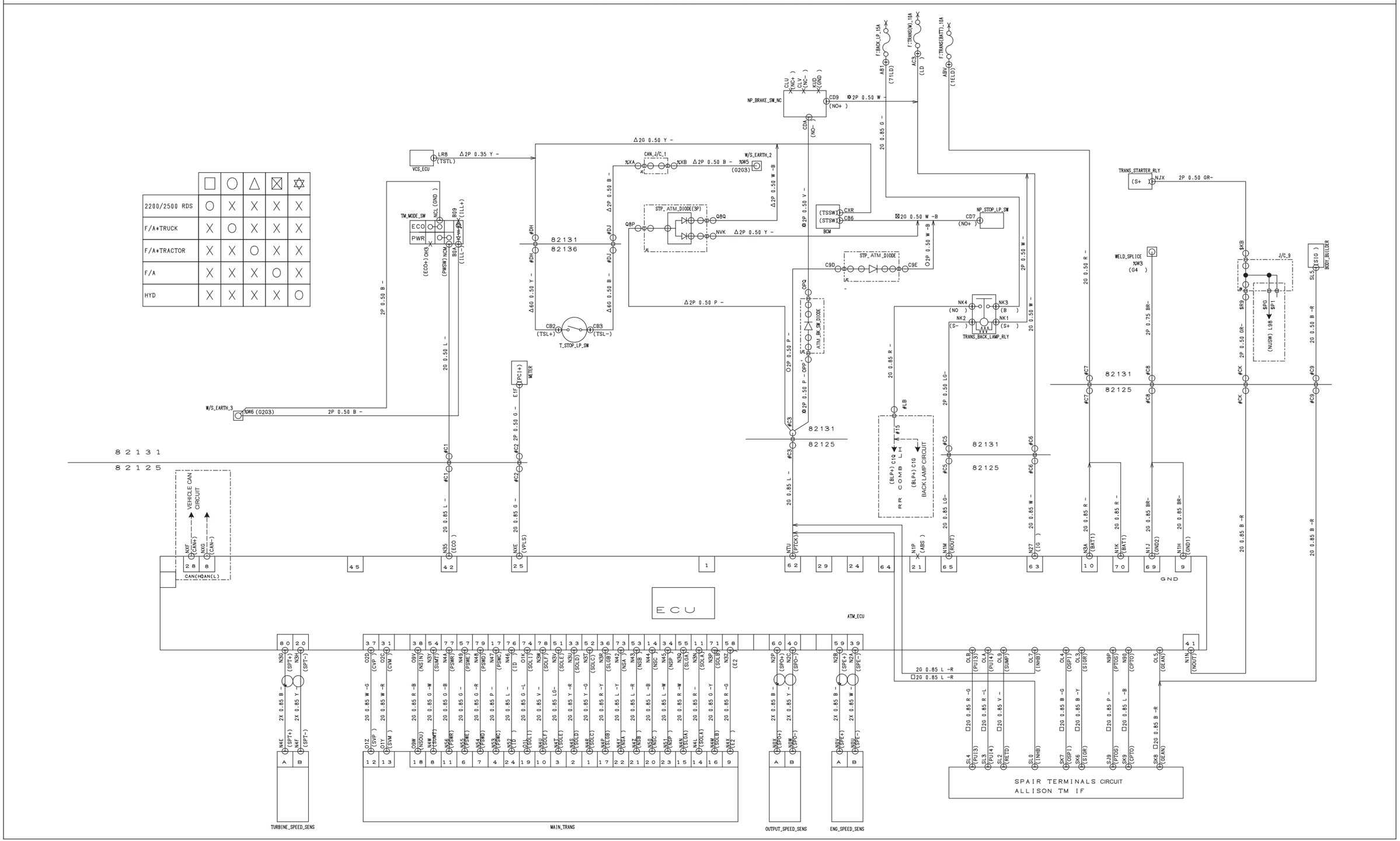


40. CMS, ACC & LDW CIRCUIT

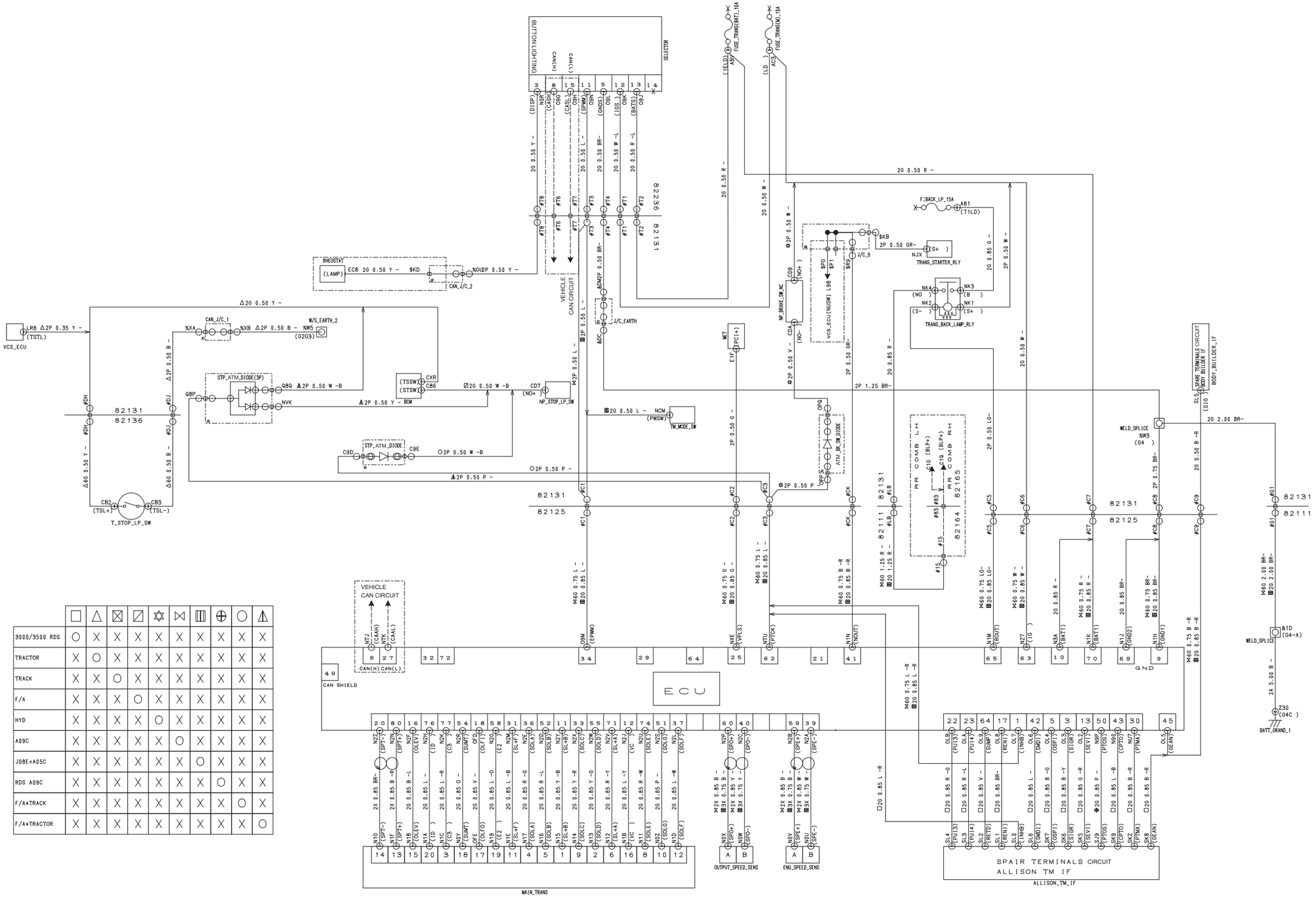


	⋈	▥	▽	✡
A09C	○	X	X	X
J08C+A05C	X	○	X	X
21MY	X	X	○	X
22MY	X	X	X	○

41. ALLISON 2200/2500 TRANS BASIC CIRCUIT

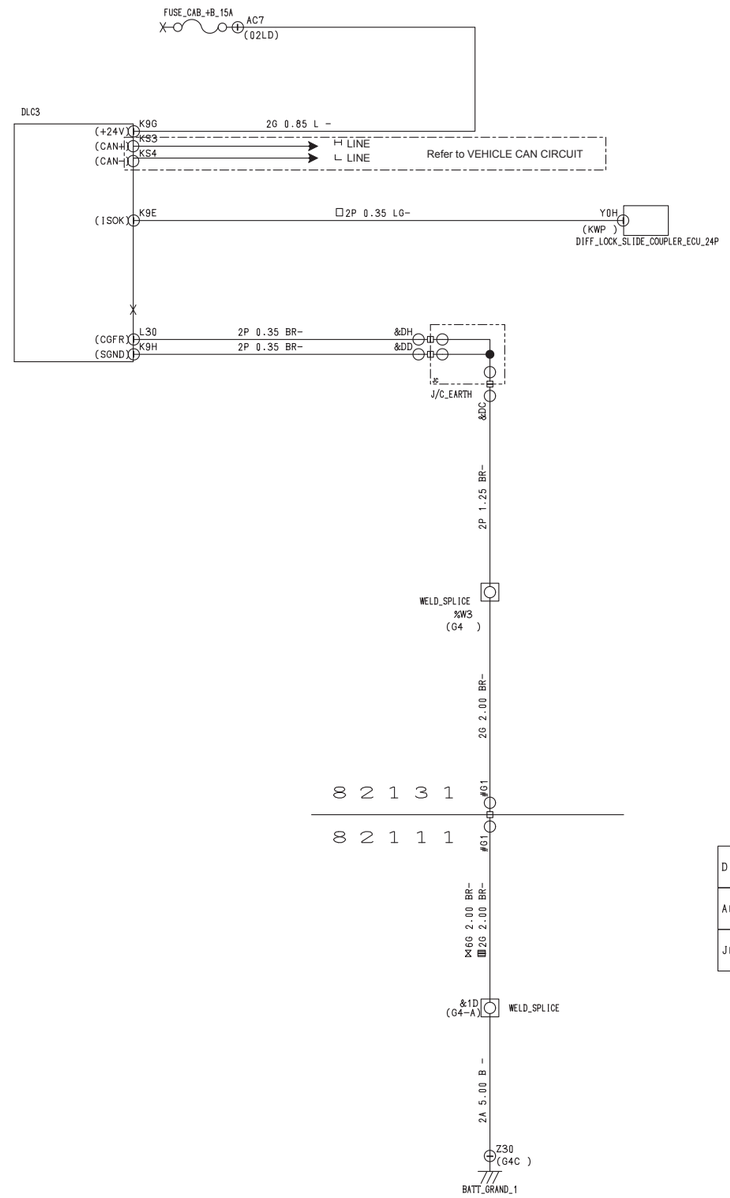


42. ALLISON 3000RDS TRANS BASIC CIRCUIT



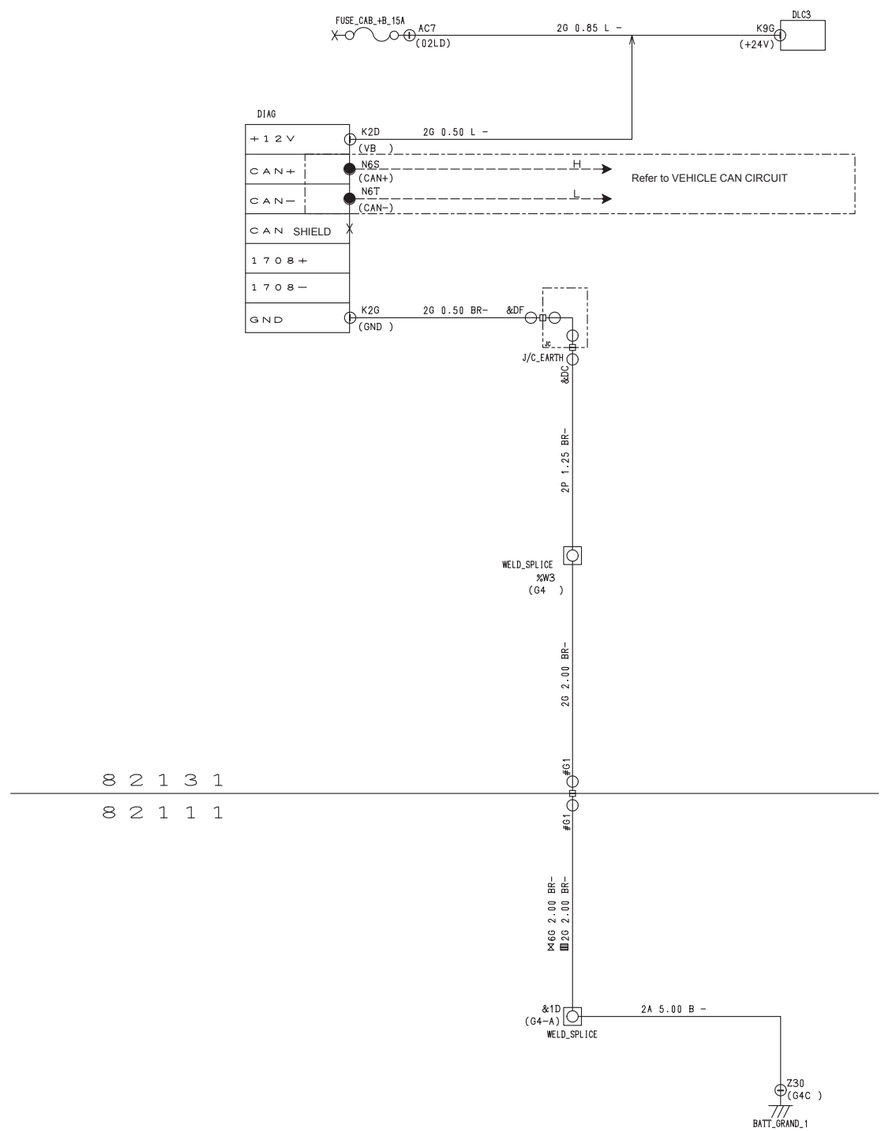
	□	△	⊠	◪	✡	⋈	▥	⊕	○	⚠
3000/3500 RDS	○	X	X	X	X	X	X	X	X	X
TRACTOR	X	○	X	X	X	X	X	X	X	X
TRACK	X	X	○	X	X	X	X	X	X	X
F/A	X	X	X	○	X	X	X	X	X	X
HYD	X	X	X	X	○	X	X	X	X	X
A09C	X	X	X	X	X	○	X	X	X	X
J08E+A05C	X	X	X	X	X	X	○	X	X	X
RDS A09C	X	X	X	X	X	X	X	○	X	X
F/A+TRACK	X	X	X	X	X	X	X	X	○	X
F/A+TRACTOR	X	X	X	X	X	X	X	X	X	○

43. DIAGNOSIS CIRCUIT



	□	⋈	▥
DIFF_LOCK	○	×	×
A09C	×	○	×
J08E+A05C	×	×	○

44. DIAG' CONNECTOR CIRCUIT

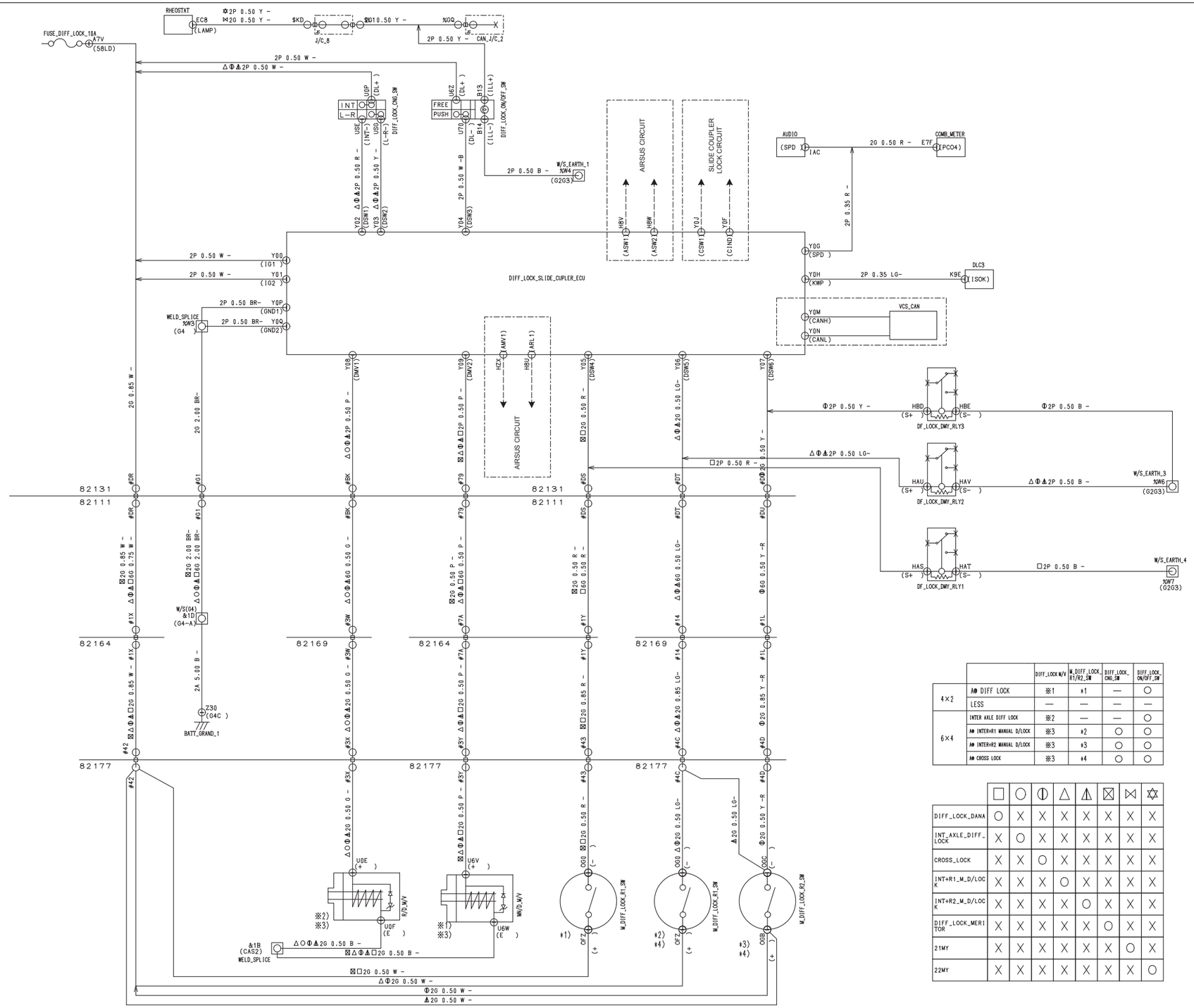


8 2 1 3 1

8 2 1 1 1

	⋈	▥
A09C	○	×
B6.7+A05C	×	○

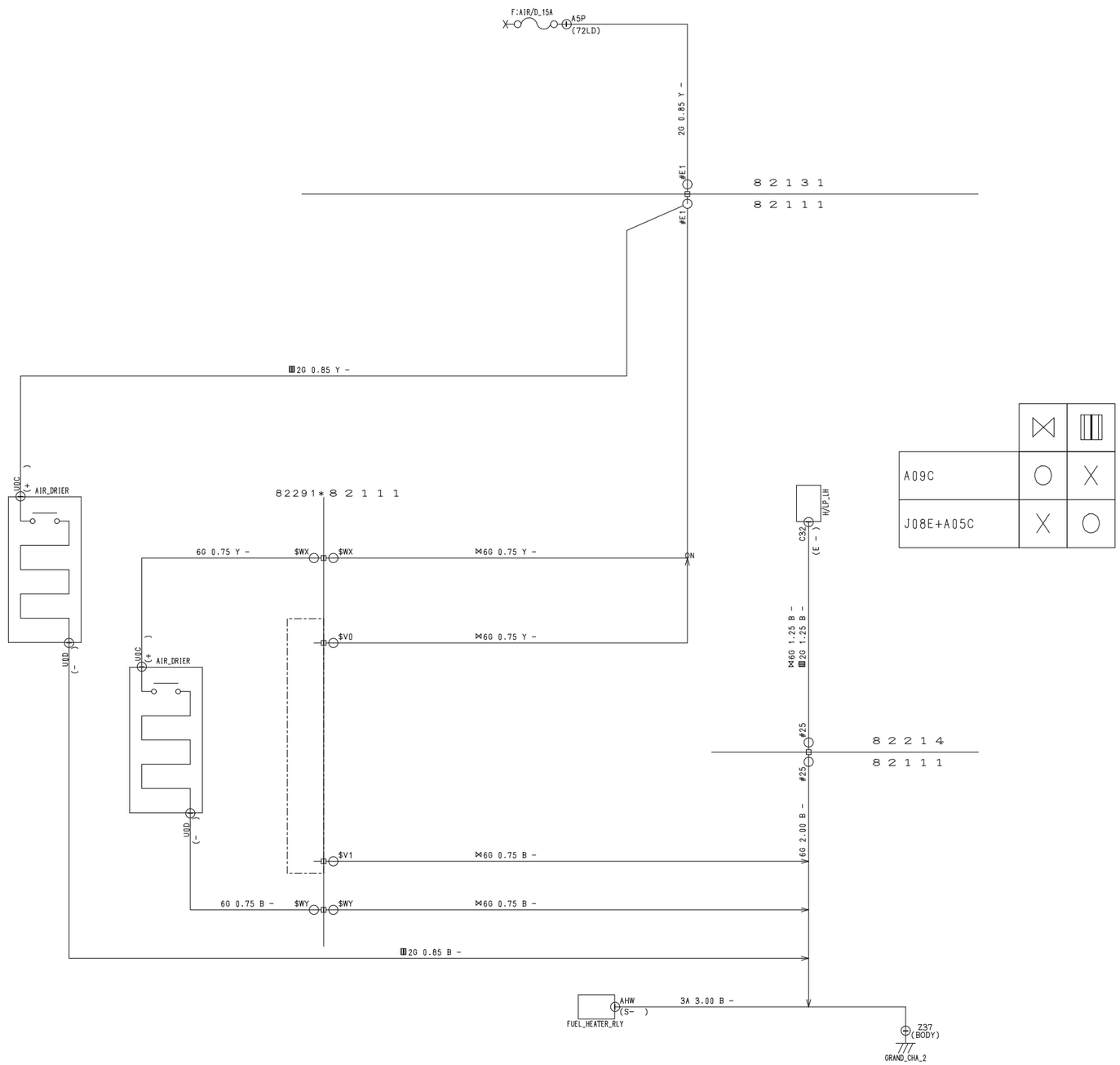
45. DIFF LOCK CONTROL CIRCUIT



		DIFF_LOCK W/V	M_DIFF_LOCK_R1/R2_SW	DIFF_LOCK_CNG_SW	DIFF_LOCK_ON/OFF_SW
4×2	A⊕ DIFF LOCK	※1	*1	—	○
	LESS	—	—	—	—
6×4	INTER AXLE DIFF LOCK	※2	—	—	○
	A⊕ INTER+R1 MANUAL D/LOCK	※3	*2	○	○
	A⊕ INTER+R2 MANUAL D/LOCK	※3	*3	○	○
	A⊕ CROSS LOCK	※3	*4	○	○

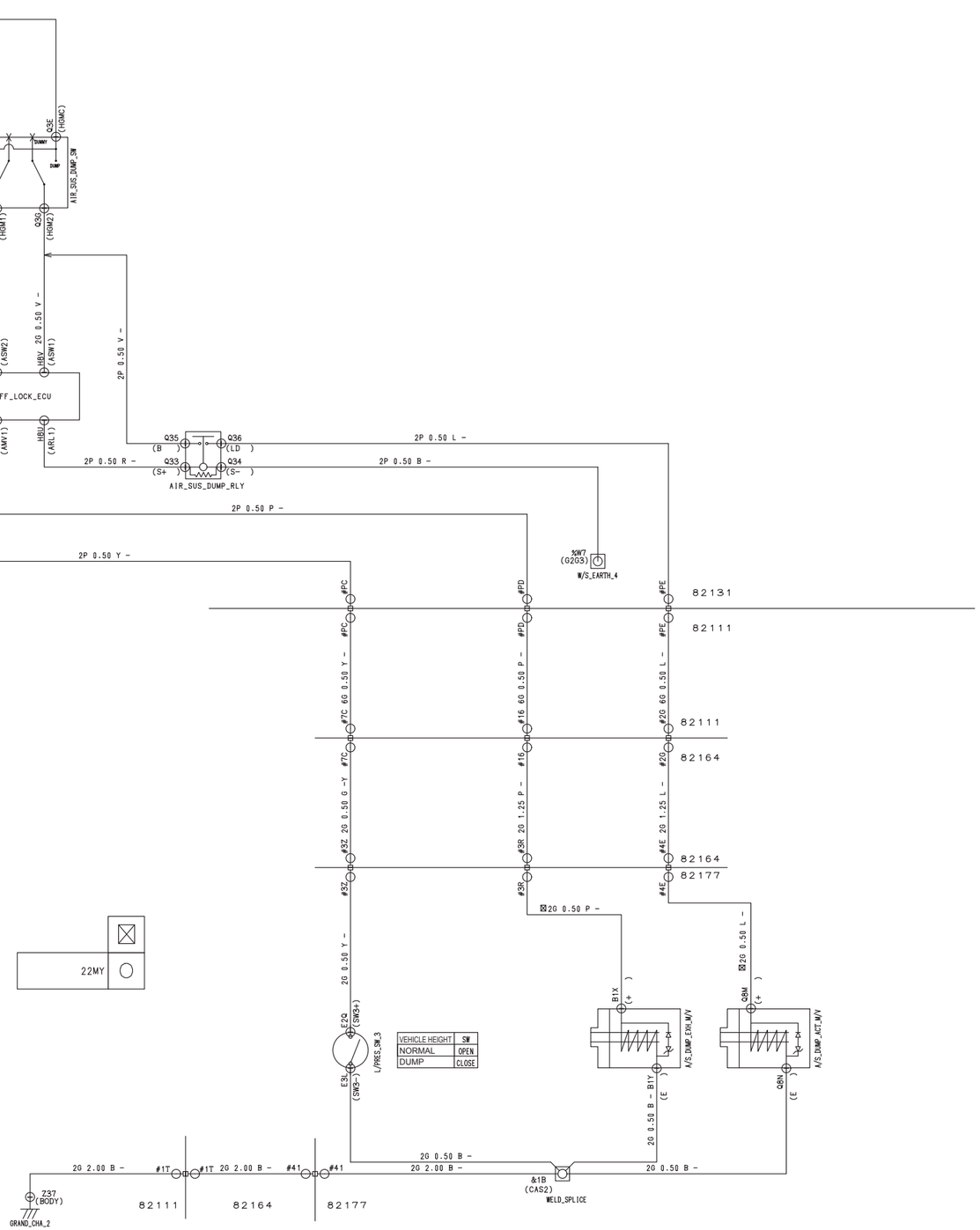
	□	○	◐	△	◭	⊠	⋈	✡
DIFF_LOCK_DANA	○	X	X	X	X	X	X	X
INT_AXLE_DIFF_LOCK	X	○	X	X	X	X	X	X
CROSS_LOCK	X	X	○	X	X	X	X	X
INT+R1_M_D/LOCK	X	X	X	○	X	X	X	X
INT+R2_M_D/LOCK	X	X	X	X	○	X	X	X
DIFF_LOCK_MERITOR	X	X	X	X	X	○	X	X
21MY	X	X	X	X	X	X	○	X
22MY	X	X	X	X	X	X	X	○

46. AIR DRIER CIRCUIT

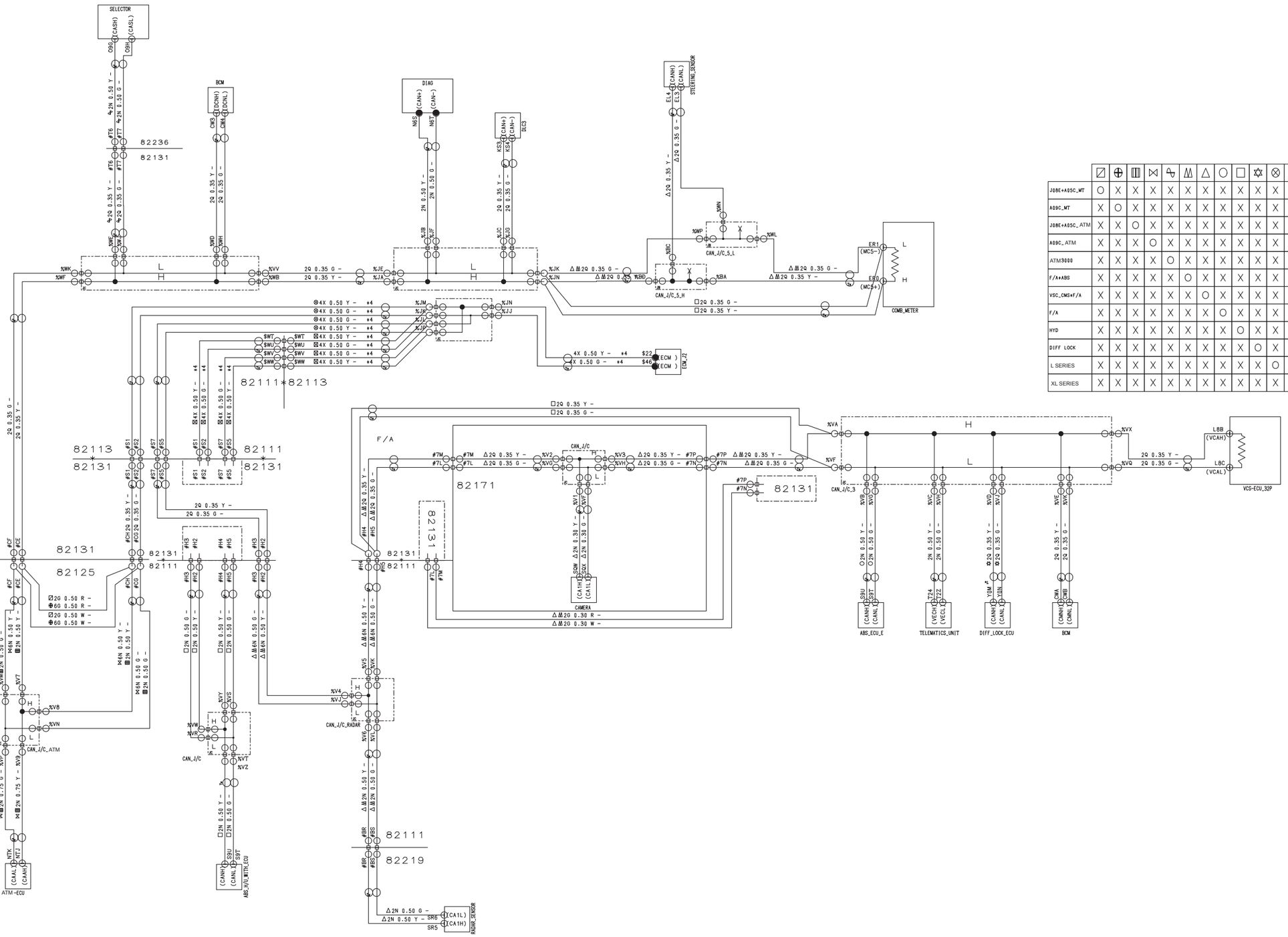


	⋈	▥
A09C	○	×
J08E+A05C	×	○

47. AIR SUS DUMP CIRCUIT

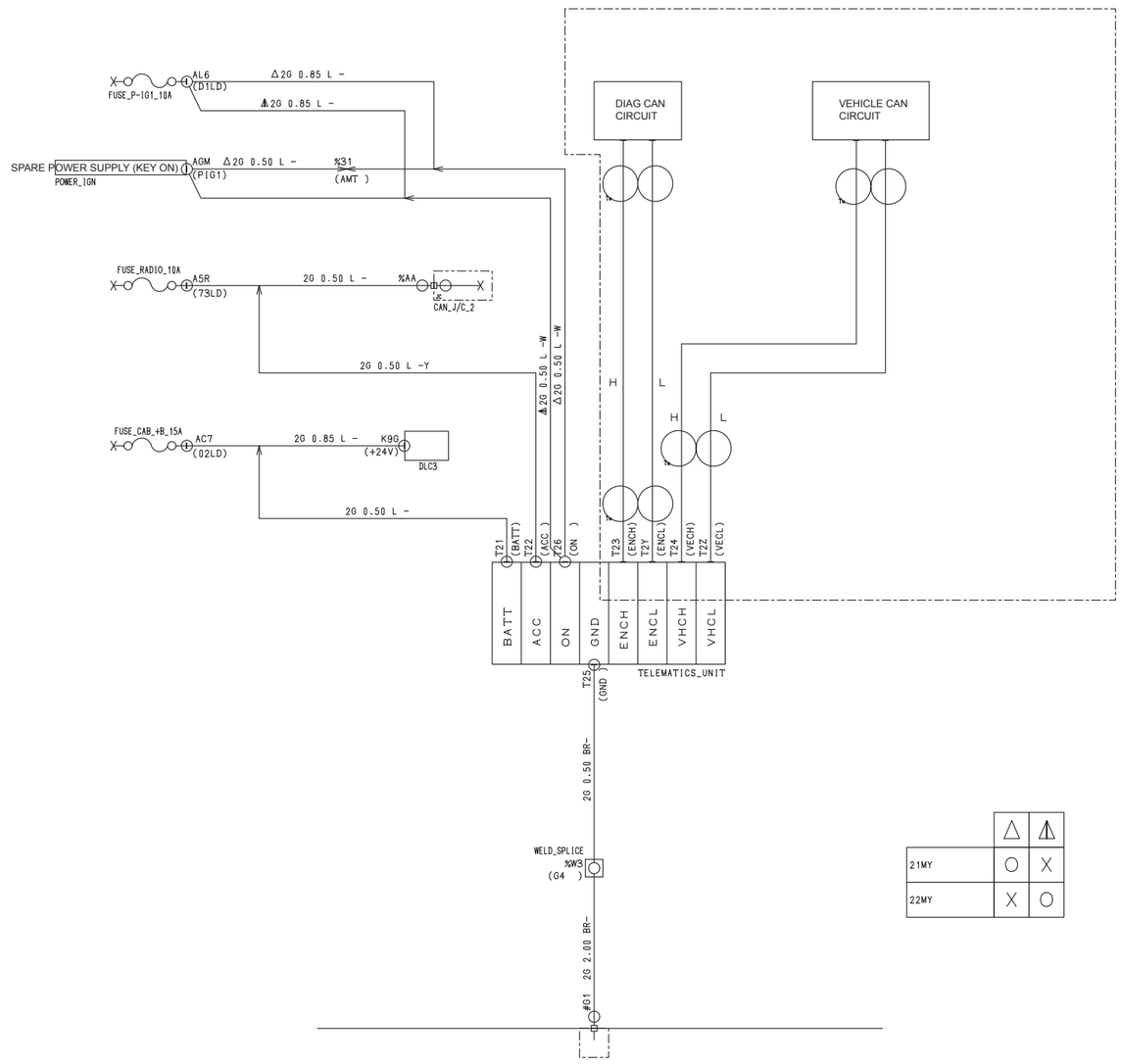


48. VEHICLE CAN CIRCUIT

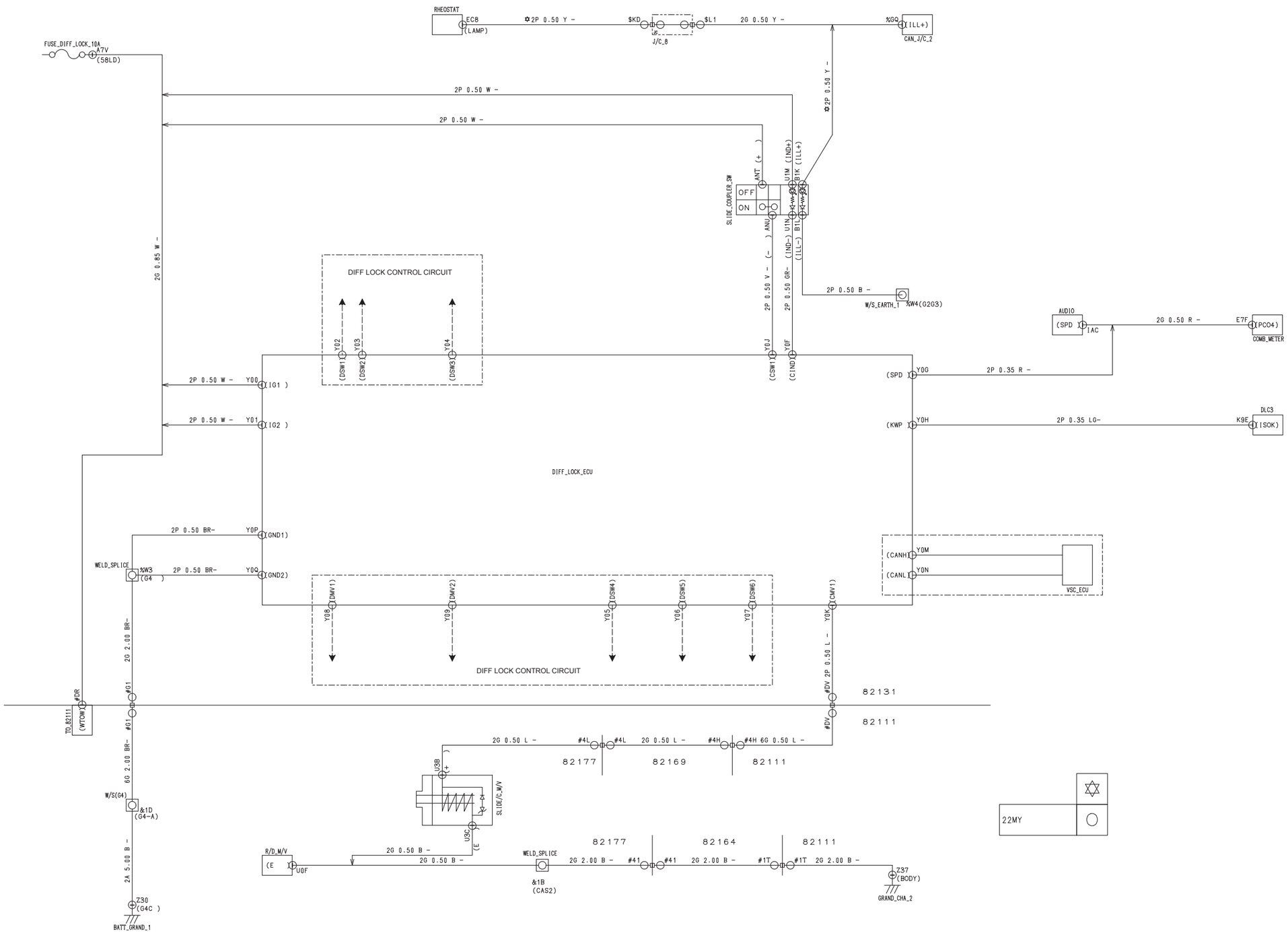


	⊠	⊕	▥	⋈	⚲	⋔	△	○	□	✡	⊗	⊠
J08E+A05C_MT	○	X	X	X	X	X	X	X	X	X	X	X
A09C_MT	X	○	X	X	X	X	X	X	X	X	X	X
J08E+A05C_ATM	X	X	○	X	X	X	X	X	X	X	X	X
A09C_ATM	X	X	X	○	X	X	X	X	X	X	X	X
ATM3000	X	X	X	X	○	X	X	X	X	X	X	X
F/A+ABS	X	X	X	X	X	○	X	X	X	X	X	X
VSC_CMS+F/A	X	X	X	X	X	X	○	X	X	X	X	X
F/A	X	X	X	X	X	X	X	○	X	X	X	X
HYD	X	X	X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

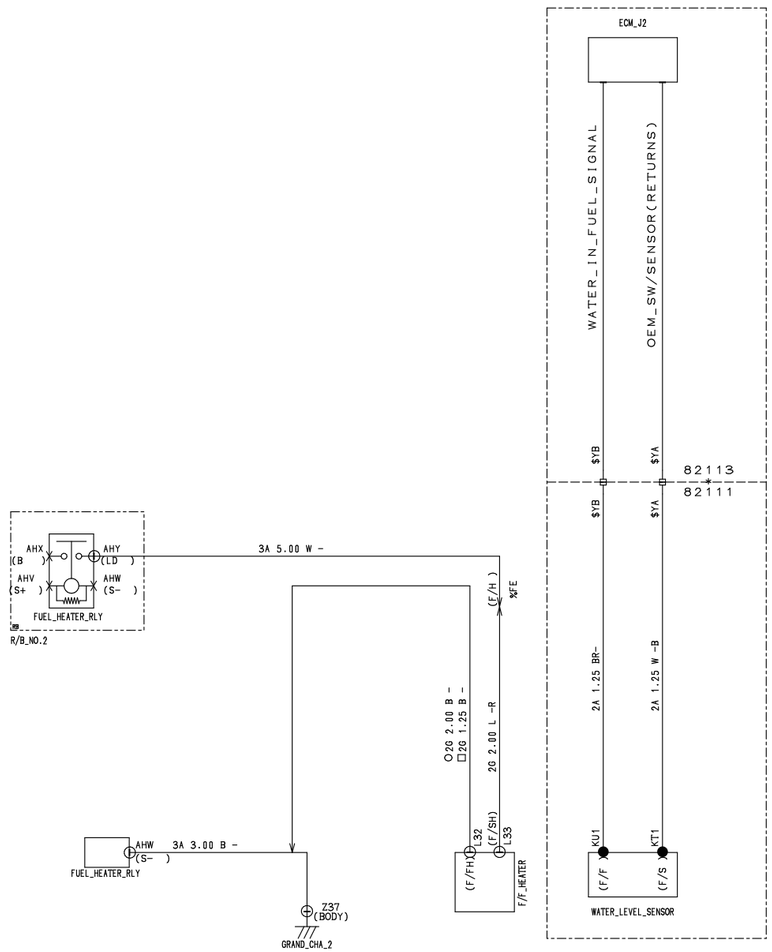
49. TELEMATICS CIRCUIT



50. SLIDE COUPLER LOCK CIRCUIT



51. FUEL FILTER SYSTEM CIRCUIT



	□	○
A09C	○	X
J08E	X	○

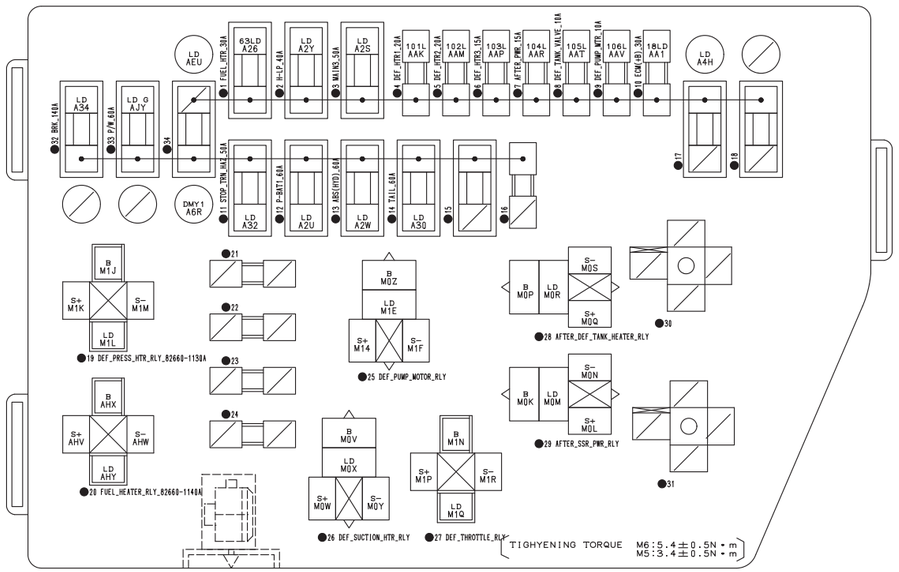
5. CONNECTORS

The Table of Connector No.

CONNECTOR No.
82111
82113
82121
82122
82123
82124
82125
82126
82127
82128
82130
82131
82136
82142
82151
82152
82153
82161
82164
82165
82169
82171
82177
82213
82214
82219
82235
82236
82284
82286
82287
82288
82291
82412
82422
82627
84523

[NOTE] 1) There are all the specifications included options.
2) When you use these connectors, please understand the vehicle specifications.

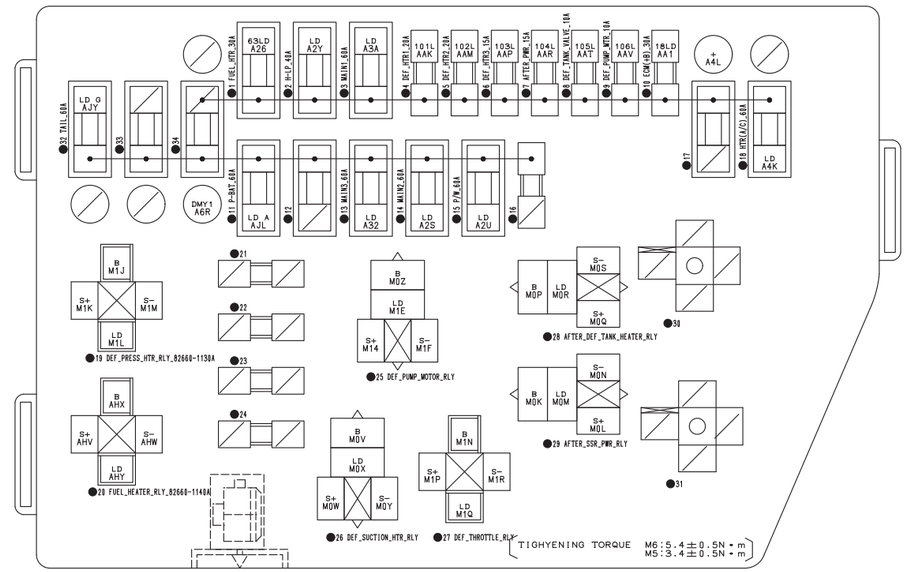
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	R/B_NO.2	B		L SERIES



*82620-1590A

FL(A1)30A:SZ980-58056 (A1)40A:SZ980-58060 (A1)50A:SZ980-58055 (A1)60A:SZ980-58061
(B1)40A:SZ980-58062 (B1)60A:SZ980-58063 (B1)80A:90982-08253 (B1)100A:90982-08273
(B1)140A:SZ980-58064
FUSE 10A:SZ980-57051 15A:SZ980-57052 20A:SZ980-57053 30A:SZ980-57058
(BOX:82663-E0040 PROTECTOR:82817-1050A)

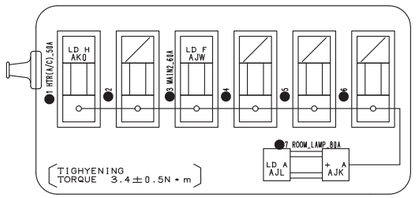
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	R/B_NO.2	B		XL SERIES



*82620-1590A

FL(A1)30A:SZ980-58056 (A1)40A:SZ980-58060 (A1)50A:SZ980-58055 (A1)60A:SZ980-58061
(B1)40A:SZ980-58062 (B1)60A:SZ980-58063 (B1)80A:90982-08253 (B1)100A:90982-08273
(B1)140A:SZ980-58064
FUSE 10A:SZ980-57051 15A:SZ980-57052 20A:SZ980-57053 30A:SZ980-57058
(BOX:82955-E0040 PROTECTOR:82817-1050A)

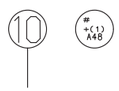
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	FL_BLOCK_A	B		L SERIES



*82620-E0120

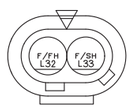
30A:SZ980-58021 40A:SZ980-58028 50A:SZ980-58022 60A:SZ980-58023A
80A:SZ980-58025
82611-2010A CONNECT

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	BATTERY			



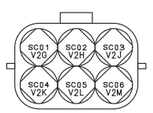
99142-15100

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	F/F_HEATER_SENSOR	DG		



82560-3830A

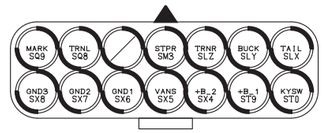
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
9	OPT_CONN_CHA	B		



S8281-E0D80

CONNECT S8281-E0D40 COLOR:B
TO 9
RR HOLDER(S8284-E0310)

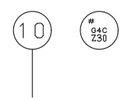
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
10	LIGHTING_IF	B		



S8281-E0M70

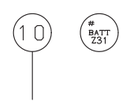
CONNECT S8281-E0M80 COLOR:B
TO 10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
30	BATT_GRAND			



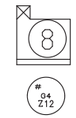
98061-0050A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
31	GRAND_CHA			



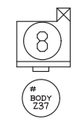
98061-0050A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
33	GRAND_CHA_1			XL SERIES



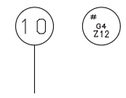
82583-1810A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
34	GRAND_CHA_2			XL SERIES



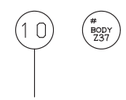
82583-1820A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
33	GRAND_CHA_1			L SERIES



98061-0050A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
34	GRAND_CHA_2			L SERIES

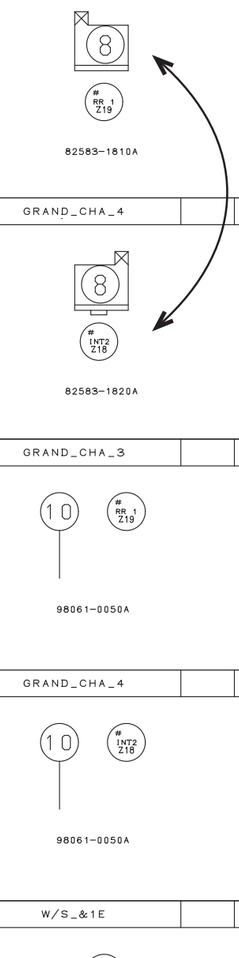


98061-0050A

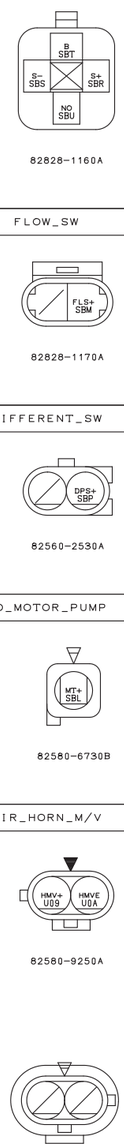
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
35	W/S_&1D			

SPLCE-W0001

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
36	GRAND_CHA_3			XL SERIES
37	GRAND_CHA_4			XL SERIES
36	GRAND_CHA_3			L SERIES
37	GRAND_CHA_4			L SERIES
38	W/S_&1E			
40	FUEL_SENDER_LH	DG		

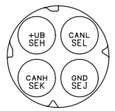


No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
50	MOTOR_RLY	B		HYDRAULIC BRAKE
51	FLOW_SW	GR		HYDRAULIC BRAKE
52	DIFFERENT_SW	B		HYDRAULIC BRAKE
53	TO_MOTOR_PUMP	B		HYDRAULIC BRAKE
60	AIR_HORN_M/V	B		



No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
61	HORN_HI(-)	B		
62	HORN_HI(+)	B		
63	HORN_LO(-)	B		
64	HORN_LO(+)	B		
80	AMB_TEMP_SSR	GR		
90	ABS_SENSOR_FR_LH	B		
91	ABS_SENSOR_FR_RH	B		

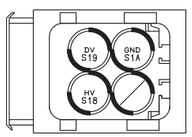
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
92	ESC_ECU_E8	B		



82560-1340A

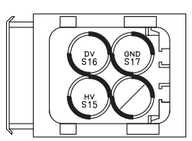
S8284-E0550

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
93	FR_AXLE_PACKAGE_LH	B		XL SERIES, L SERIES 21MY*ABS_ESC, L SERIES 22MY* (ABS|ABS_ESC)



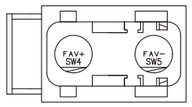
S8281-E0F50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
94	FR_AXLE_PACKAGE_RH	B		L SERIES 21MY*ABS_ESC, L SERIES 22MY* (ABS|ABS_ESC)

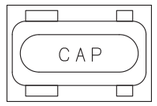


S8281-E0F50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
95	FRONT_AXLE_PACKAGE_ATC	B		

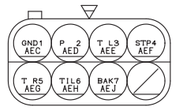


82824-E1640

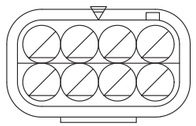


S8286-E0010

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
97	TRAILER_SOCKET	B		TRAILER

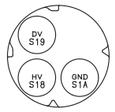


82580-6040B



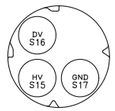
82580-6030B_CAP

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
98	MODULATOR_FR_LH	B		L SERIES _21MY*ABS



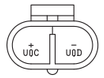
S8281-E0G80

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
99	MODULATOR_FR_RH	B		L SERIES _21MY*ABS



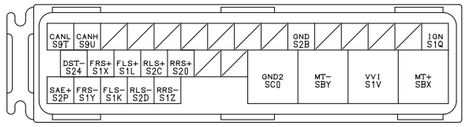
S8281-E0G80

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
121	AIR_DRIER(F/A)	B		L SERIES



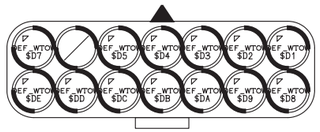
82560-4660A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
156	ABS_H/U_WITH_ECU	B		HYDRAULIC BRAKE



82828-1560A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
157	EX5B	B		XL SERIES

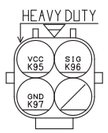


S8281-E0M70

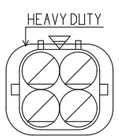
CUMMINS:10763414

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
158	COL_LEVEL_SENSOR	B		XL SERIES
159	REMOTE_ACCEL_PEDAL	B		XL SERIES
160	A/C_COMPRESSOR	B		XL SERIES

S8281-E0T00



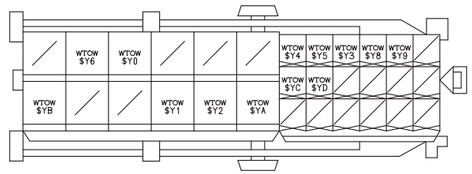
82560-1260A



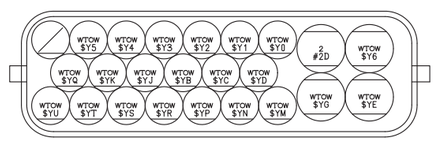
82560-1250A_CAP
COLOR(B)

82560-1230A

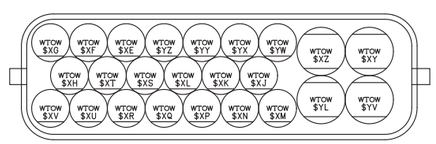
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
400	TO_82113_1			L SERIES
400	TO_82113_1	B		XL SERIES
401	TO_82113_2	B		XL SERIES



82824-E1260

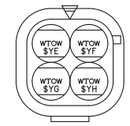


82560-1320A

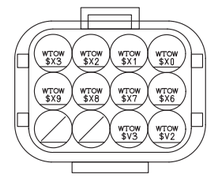


82560-1320A

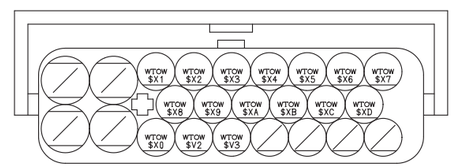
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
401	TO_82113_2	GR		L SERIES
402	TO_82128	B		L SERIES
402	TO_82128	B		XL SERIES
403	TO_82113_3	B		XL SERIES



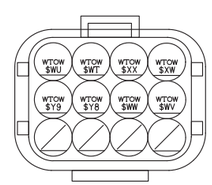
82580-7750B



S8281-E0R00

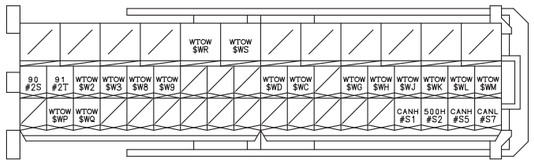


82560-1330A

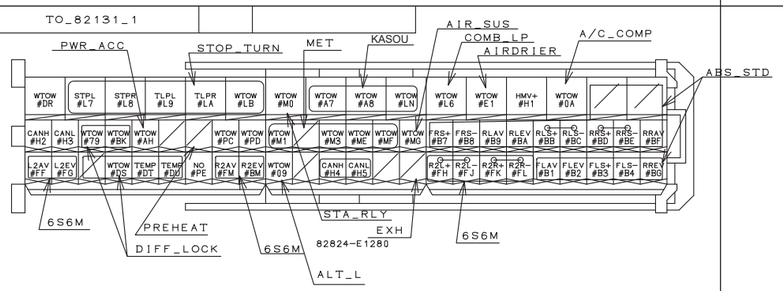


S8281-E0R00

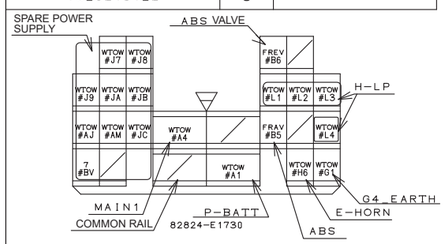
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
404	TO_82131_6			XL SERIES



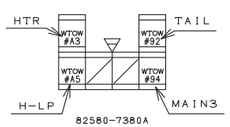
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
405	TO_82131_1			



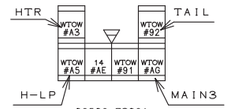
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
406	TO_82131_2	G		



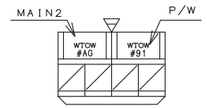
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
407	TO_82131_3			XL SERIES



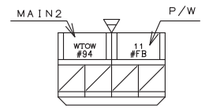
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
407	TO_82131_3			L SERIES



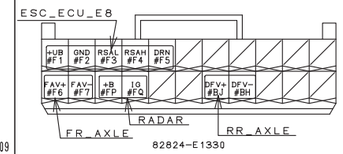
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
408	TO_82131_4			XL SERIES



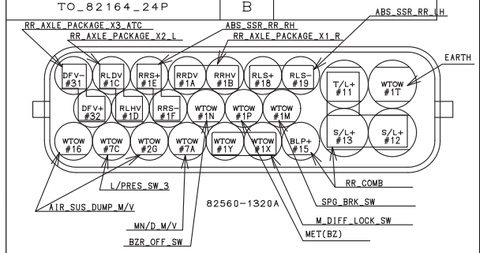
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
408	TO_82131_4			L SERIES



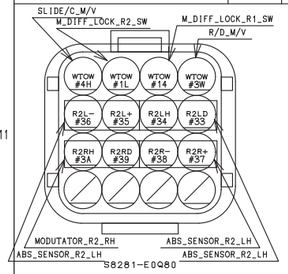
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
409	TO_82131_5			OPT(CMS)

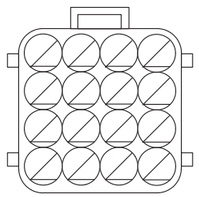


No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
410	TO_82164_24P	B		



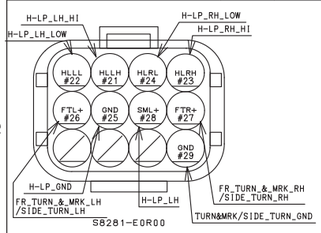
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
411	TO_82169_16P	B		



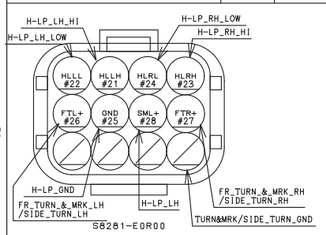


*S8281-E0Q90_CAP
(XL SERIES ONLY)

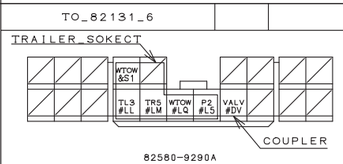
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
412	TO_82214	B		L SERIES



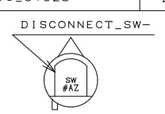
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
412	TO_82214	B		XL SERIES



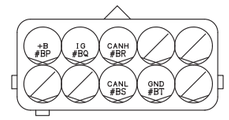
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
415	TO_82131_6			OPT (TRAILER)

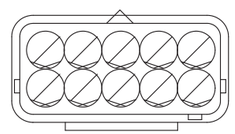


No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
416	TO_84523	B		

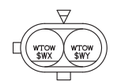


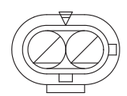
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
417	TO_82219	B		



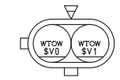


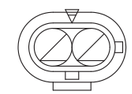
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
418	TO_82291_FR	B		XL SERIES



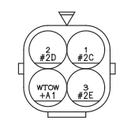


No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
419	TO_82291_RR	B		XL SERIES

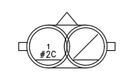




No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
431	TO_82130_A/C_COMP	GR		L SERIES



No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
431	TO_82130	B		XL SERIES



No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
440	DEF_LINE_HEATING_DIODE	B		

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
441	DEF_PUMP_MOTOR_DIODE	B		
442	AFTER_SSR_PWR_DIODE	B		
443	DEF_TANK_HTR_DIODE	B		
450	WATAR_INFUEL_SSR	B		

82560-3800A

85902-1200A

82560-3800A

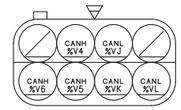
85902-1200A

82560-3800A

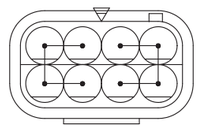
85902-1200A

S8281-E0T20

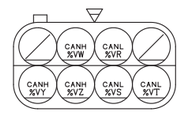
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
500	CAN_J/C_RADAR	GR		L SERIES
501	CAN_J/C_HYD	GR		HYDRAULIC BRAKE
601	W/S_UREA_HTR			
602	W/S_UREA_HTR			



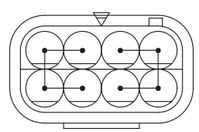
82580-6040B



82550-1230A



82580-6040B



82550-1230A

SPLCE-W0001

SPLCE-W0001

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
603	W/S_UREA_HTR			
604	W/S			
605	W/S			
606	W/S			XL SERIES
607	W/S			XL SERIES
608	W/S			XL SERIES

SPLCE-W0001

SPLCE-W0001

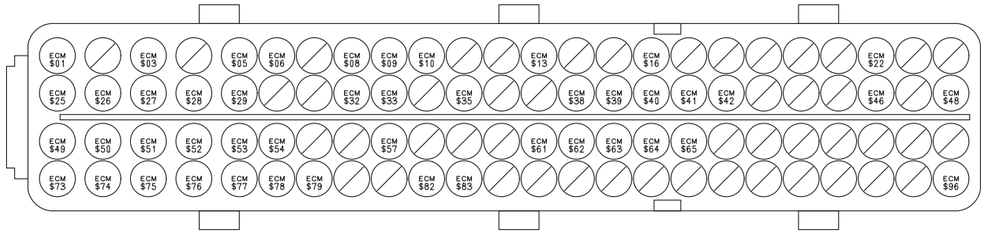
SPLCE-W0001

SPLCE-W0001

SPLCE-W0001

SPLCE-W0001

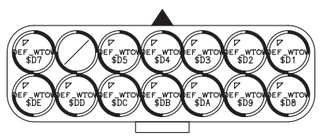
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	ECM_J2	B		



*S8281-E0T50_

CUMMINS:13964572

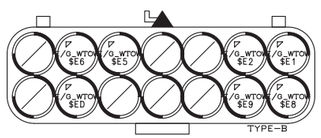
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	EX5B	B		



S8281-E0M70

CUMMINS:10763414

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	CC1D	GR		



S8281-E0T10

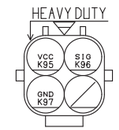
CUMMINS:13533441

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	COL_LEVEL_SENSOR	B		L SERIES

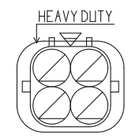
S8281-E0T00

DELPHI:12110293

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	REMOTE_ACCEL_PEDAL	B		

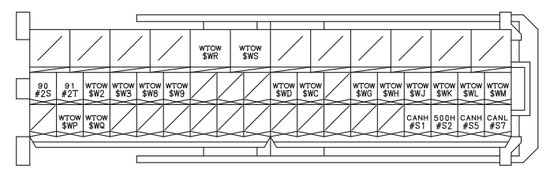


82560-1260A



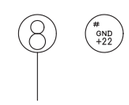
82560-1250A_CAP
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
36	TO_82131_48P			L SERIES



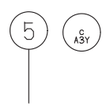
82824-E0W50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
50	GRAND_ENG_BLOCK			



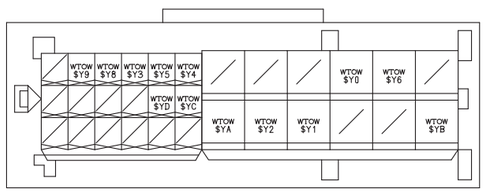
99141-12008

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
51	STA_C			XL SERIES



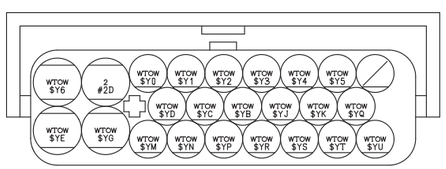
99141-12005

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
400	TO_82111_1			L SERIES



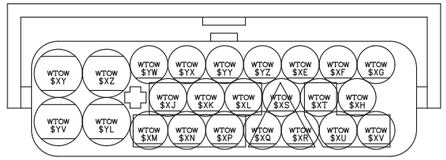
82824-E1250

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
400	TO_82111_1	B		XL SERIES



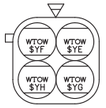
82560-1330A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
401	TO_82111_2	B		XL SERIES



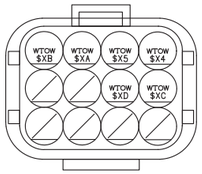
82560-1330A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
401	TO_82111_2	GR		L SERIES



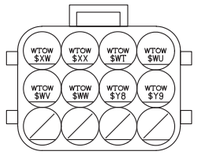
82580-7760B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
402	TO_82128	B		L SERIES



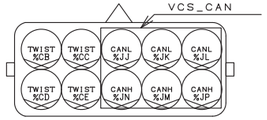
S8281-E0R00

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
403	TO_82111_3	B		XL SERIES

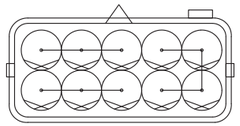


S8281-E0R10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
500	J/C_1	B		

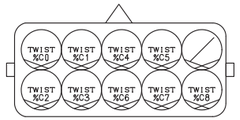


S8281-E0E80

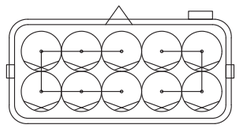


S8281-E0E90
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
501	J/C_2	B		



S8281-E0E80



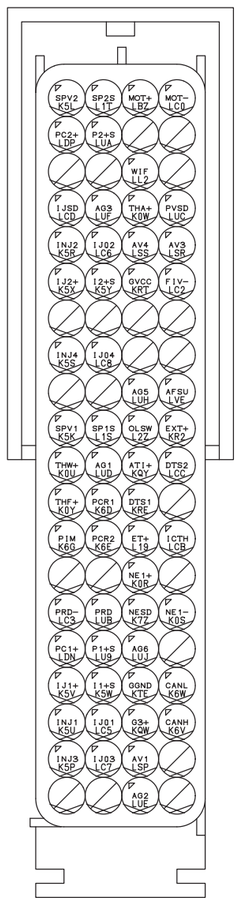
S8281-E0F00
COLOR(GR)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
601	W/S			L SERIES

SPLCE-W0001

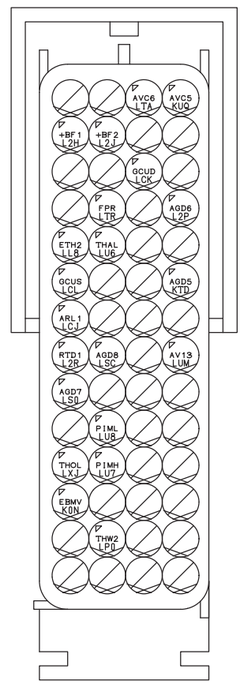
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
602	W/S ENG_B %U6 SPLCE-W0001			L SERIES
603	W/S B %U7 SPLCE-W0001			L SERIES
604	W/S Q4 %U8 SPLCE-W0001			L SERIES
605	W/S E %U9 SPLCE-W0001			
606	W/S B %UA SPLCE-W0001			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	COMMON RAIL-ECU_2	L		L SERIES



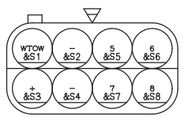
S8281-E0420

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	COMMON RAIL-ECU_3	L		L SERIES

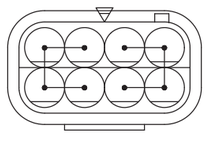


S8281-E0G30

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	ENG_CAN_J/C(SCR)	DG		L SERIES

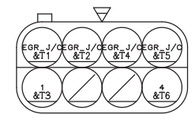


82580-6040B

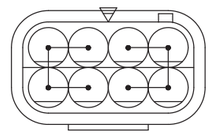


82550-1230A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	ENG_CAN_J/C(EGR)	DG		L SERIES

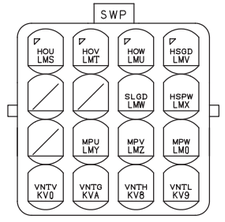


82580-6040B



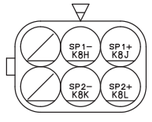
82550-1230A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	VNT_CONTROL	B		L SERIES



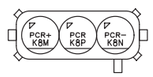
82560-3560A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	TO_PCV_SUB	B		L SERIES



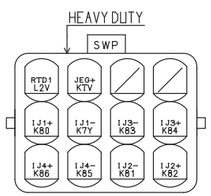
82580-8490B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
11	PC_SSR	B		L SERIES



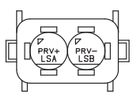
82824-E1090

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
12	HEAD	GR		L SERIES



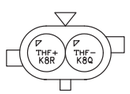
82560-3480A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
17	PRV	GR		L SERIES



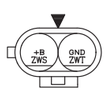
82824-E0Z20

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
18	F/TEMP_SSR	G		L SERIES



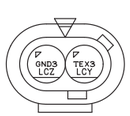
82580-7120A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
19	FCV	B		L SERIES



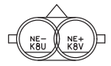
82580-9250A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
20	EXH_GAS_TEMP_SSR1	DG		L SERIES



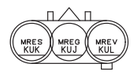
82560-3980A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
21	NE_SSR	B		L SERIES



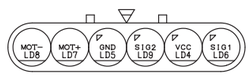
82560-1230A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
22	CYL_ANGL_SSR	B		L SERIES



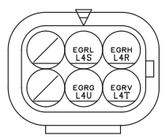
82580-9960A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
23	DIESEL_THROTTLE	B		L SERIES



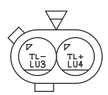
82560-3300A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
24	TO_EGR_CONTROL	GR		L SERIES



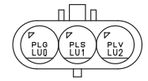
82580-8480B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
26	LPT_TEMP_SSR	DG		L SERIES



82580-7800B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
27	LPT_PRESSURE_SSR	B		L SERIES

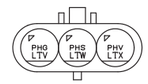


82580-8980A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
28	W/TEMP_SENDER_1	B		L SERIES

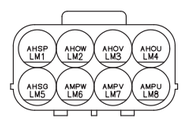
82580-8760A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
29	HPT_PRESSURE_SSR	B		L SERIES



82580-8980A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
32	VNT_ACT	BR		L SERIES

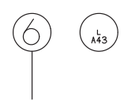


82828-1430A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
33	FUEL_INJ	BR		L SERIES

S8281-E0870

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
34	ALTERNATOR			L SERIES

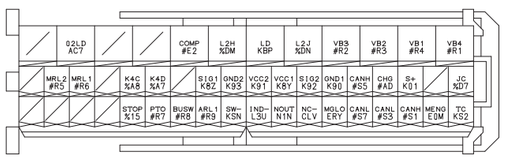


98060-6010A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
35	O/PRES_SW	B		L SERIES

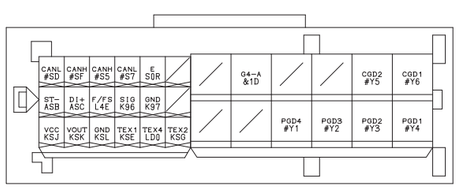
82580-6830B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
36	TO_CAB_48P			L SERIES



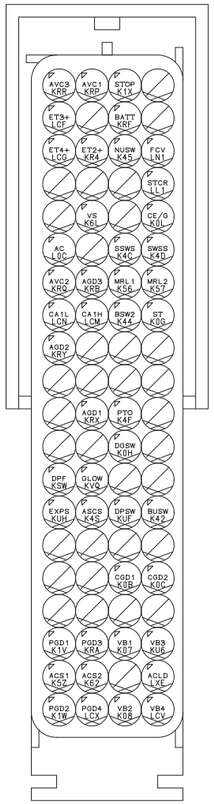
82824-E0W50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
37	TO_CHASSIS_30P			L SERIES



82824-E1250

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
39	ECU_V	GR		L SERIES



S8281-E0G20

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
42	CAN_TMN6	L		L SERIES

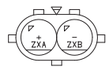
82560-1720A

89613-1010A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
44	A/C_COMP	GR		L SERIES

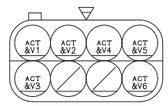
82580-8180B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
52	OIL_TEMP_SSR	B		L SERIES

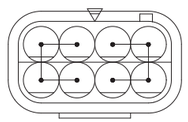


82560-1750A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
58	ENG_CAN_J/C(DIAG)	DG		L SERIES

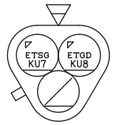
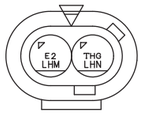
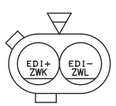


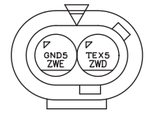
82580-6040B



82550-1230A

82121(4/4)

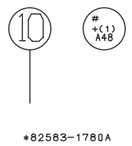
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
61	W/TEMP_SENDER_2	GR		L SERIES
	 82580-8760A			
64	EGR_EXIT_TEMP_SSR	DG		L SERIES
	 82560-3980A			
65	COOL_COMP_DIODE	B		L SERIES
	82560-3800A			
	85902-1190A			
66	DUST_INDICATOR	DG		L SERIES
	 82580-7800B			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
67	EXH_GAS_TEMP_SSR1	DG		L SERIES
	 82560-3980A			
71	W/S			L SERIES
	SPLCE-W0001			

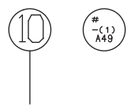
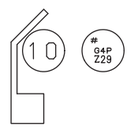
82122(1/1)

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

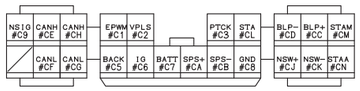
82123(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	BATTERY1			
				
2	BATTERY2			
2	BATTERY3			LOCAL

82124(1/1)

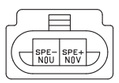
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	BATTERY1			
	 *82583-1780A			
2	BATTERY_GND			
	 82675-E0200			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131_22P			



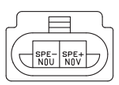
82580-9990A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	EG_SPEED_SENS_3(HS)	B		ALLISON 3000HS



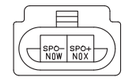
82828-1610A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	EG_SPEED_SENS_3(RDS)	B		ALLISON 3000/3500 RDS



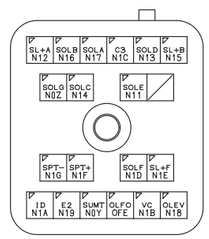
82828-1610A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
8	OUTPUT_SPEED_SENS	B		ALLISON 3000/3500



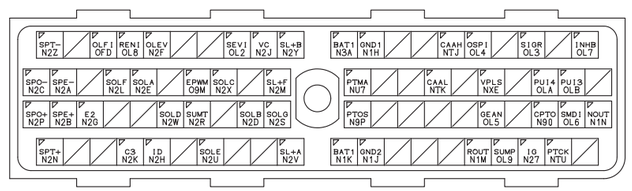
82828-1610A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
9	MAIN_TRANS(ATM3000)	B		ALLISON 3000/3500



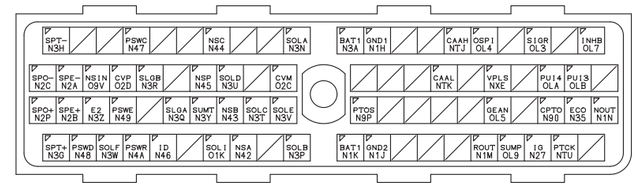
82828-1580A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
10	ALLISON_ECU	B		ALLISON 3000/3500



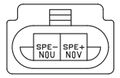
82828-1570A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
10	ALLISON_ECU	B		ALLISON 2200/2500



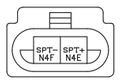
82828-1570A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
16	ENG_SPEED_SENS	B		ALLISON 2200/2500



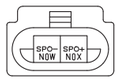
82828-1610A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
17	TB_SPEED_SENS	B		ALLISON 2200/2500



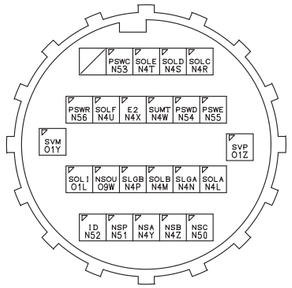
82828-1610A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
18	OP_SPEED_SENS	B		ALLISON 2200/2500



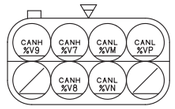
82828-1610A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
19	MAIN_TRANS(ATM 2000)	B		ALLISON 2200/2500

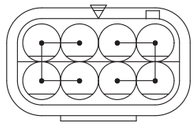


82828-1590A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
30	CAN_J/C_ATM	GR		

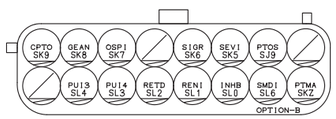


82580-6040B



82550-1230A

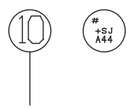
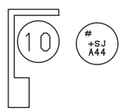
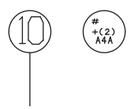
25	ALLISON_TM_IF	GR		ALLISON RDS



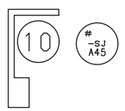
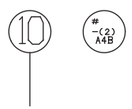
S8281-E0M20

CONNECT S8281-E0M30 COLOR:GR
TO 25

82126(1/1)

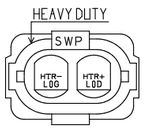
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	JUMP_STUD_POS			XL SERIES
	 *82583-1780A			
1	JUMP_STUD_POS			L SERIES
	 82675-E0530			
2	BATTERY2_(+)			
	 *82583-1780A			

82127(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	JUMP_STUD_NEG			XL SERIES
	*82583-1780A			
1	JUMP_STUD_NEG			L SERIES
	 82675-E0530			
2	BATTERY2_(-)			
	 *82583-1780A			

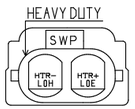
82128(1/2)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	UREA_HTR_PL	B		



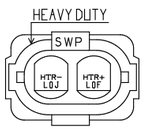
82560-4720A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	UREA_HTR_SL	B		



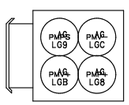
82560-4730A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	UREA_HTR_RL	B		



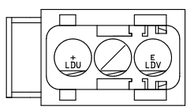
82560-4720A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	SUPPLY_MODULE	B		



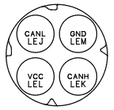
S8281-E0F40

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	W/C_CONTROL_M/V	B		



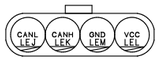
82824-E1620

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	UREA_SENSOR	B		L SERIES



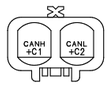
82560-1340A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	UREA_SENSOR	B		XL SERIES

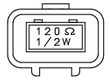


S8281-E0M00

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
30	CAN_TMN1	B		



82560-2700A

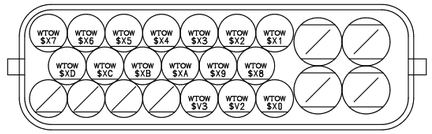


89613-1020A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
401	TO_82111	B		L SERIES

S8281-E0R10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
401	TO_82111	B		XL SERIES

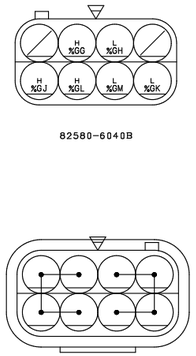


82560-1320A

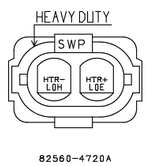
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
402	TO_82113	B		L SERIES

S8281-E0R10

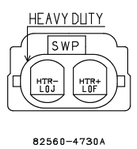
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
500	J/C_LOCAL_CAN	GR		



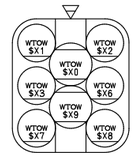
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	UREA_HTR_SL	B		



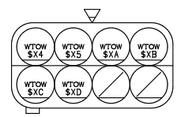
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	UREA_HTR_RL	B		

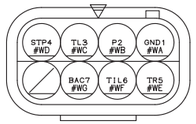
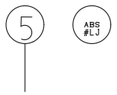
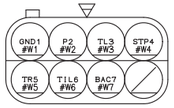
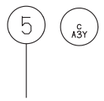


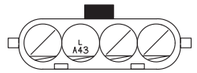
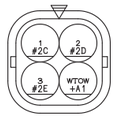
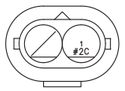
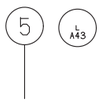
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
401	TO_82111	B		



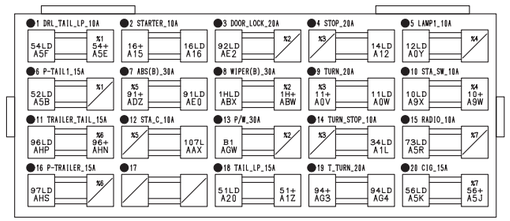
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
402	TO_82113	GR		



No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82111	B		TRAILER
	 82580-6030B			
1	A/C_COMPRESSOR	B		L SERIES
	82560-1230A			
1	MOTOR_PUMP			HYDRAULIC BRAKE
	 98060-5050A			
2	TRAILER_SOCKET	B		TRAILER
	 82580-6040B			
2	STA_C			L SERIES
	 99141-12005			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	TO_FR/H	B		HYDRAULIC BRAKE
	82580-6720B			
	82586-1060A			
3	ALT_L	B		
	 S8281-E0S60			
4	TO_82111_A/C_COMP	GR		L SERIES
	 82580-9460A			
4	TO_82111	B		XL SERIES
	 *82560-3870A			
5	ALT_L			
	 99141-12005			

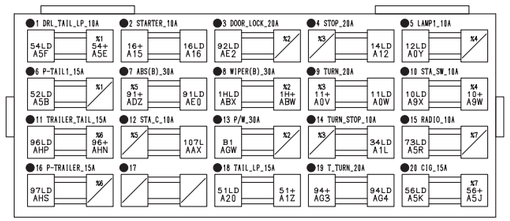
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	FUSE 1	B		L SERIES



*82610-E0090

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

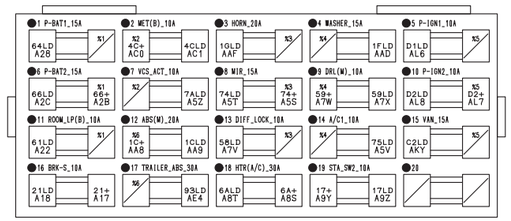
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	FUSE 1	B		XL SERIES



*82610-E0090

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

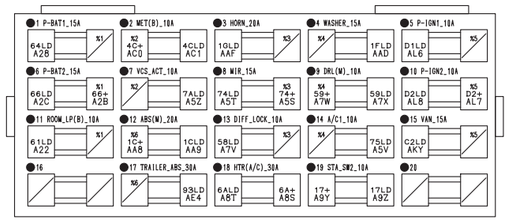
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	FUSE 2	B		L SERIES



*82610-E0090

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

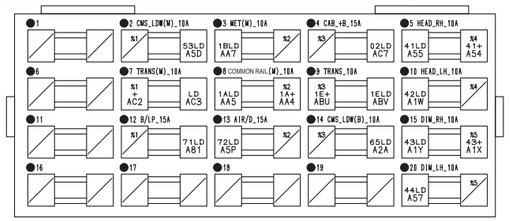
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	FUSE2	B		XL SERIES



*82610-E0090

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

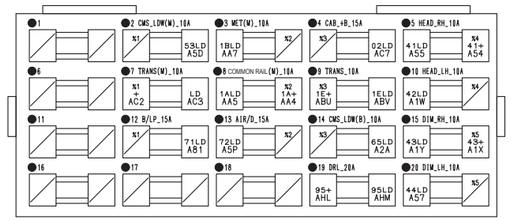
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	FUSE3	B		XL SERIES



*82610-E0090

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

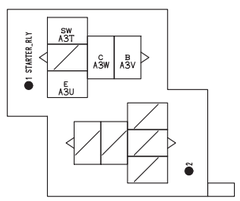
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	FUSE3	B		L SERIES



*82610-E0090

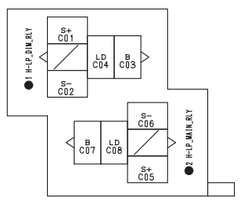
10A:SZ980-57051 15A:SZ980-57052 20A:SZ980-57053 30A:SZ980-57058

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	CASSET_RLY	B		



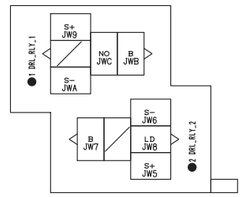
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	CASSET_RLY	B		



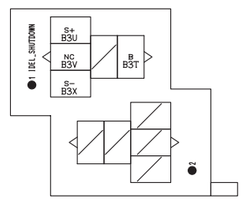
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	CASSET_RLY	B		



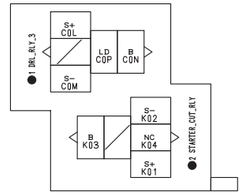
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
8	CASSET_RLY	B		L SERIES



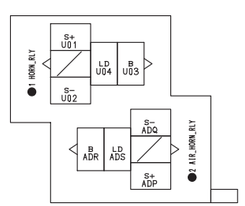
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
10	CASSET_RLY	B		



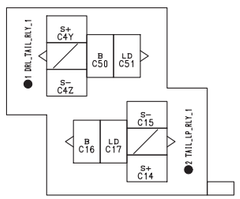
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
11	CASSET_RLY	B		



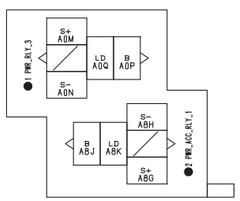
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
12	CASSET_RLY	B		



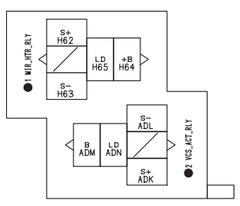
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
13	CASSET_RLY	B		



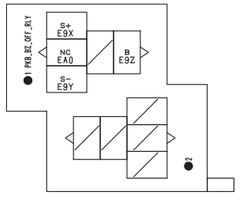
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
14	CASSET_RLY	B		



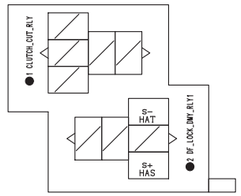
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
15	CASSET_RLY	B		L SERIES HYDRAULIC BRAKE



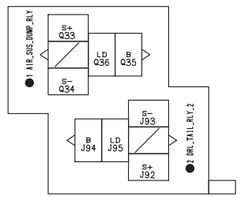
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
15	CASSET_RLY	B		XL SERIES



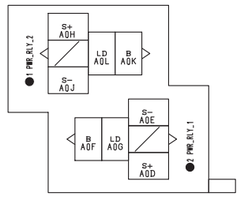
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
16	CASSET_RLY	B		TRAILER AIR SUS



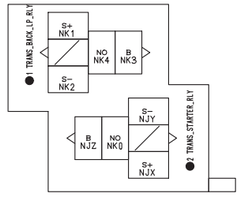
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
17	CASSET_RLY	B		



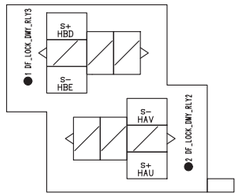
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
18	CASSET_RLY	B		



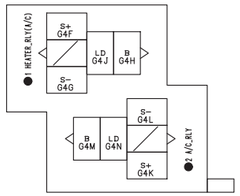
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
19	CASSET_RLY	B		XL SERIES REAR DIFF LOCK



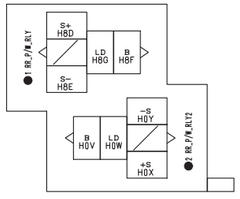
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
20	CASSET_RLY	B		



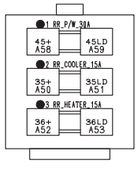
*82660-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
21	CASSET_RLY	B		REAR P/W



*82660-E0060

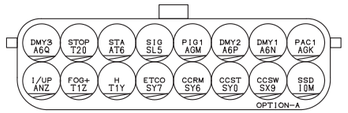
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
23	CASSET_FUSE	B		



*87348-E0010

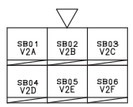
15A:9006-57153A
30A:9006-57159A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
25	BODY_BUILDER_IF	B		



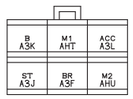
S8281-E0N00

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
26	OPT_CONN_CAB	GR		



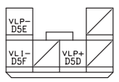
S8281-E0M60

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
27	STARTER_SW			



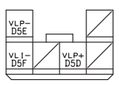
82560-3630A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
28	WORKING_LAMP_SW	L		



82824-E0U10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
28	VAN_LAMP_SW	L		



82824-E0U10

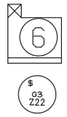
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
52	GRAND_AUDIO			

82583-1670A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
53	GRAND_DR1			

82583-1670A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
54	GRAND_DR2			



82583-1640A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
55	W/S_EARTH_1			

SPLCE-00001

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
56	W/S_EARTH_2			

SPLCE-00001

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
57	W/S_EARTH_3			

SPLCE-00001

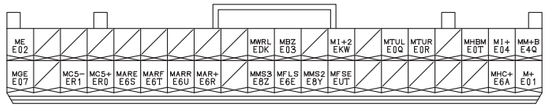
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
58	W/S_EARTH_4			

SPLCE-00001

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
59	W/S_EARTH_5			

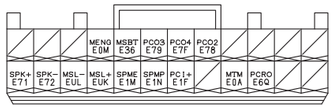
SPLCE-00001

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
80	COMB_METER_40P	B		



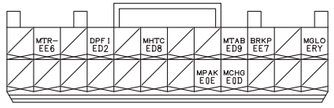
82824-E0P30

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
81	COMB_METER_24P_A	B		



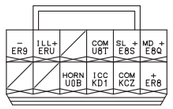
82824-E0P40

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
82	COMB_METER_24P_B			



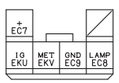
82824-E0P40

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
83	COMB_SW_SRC	B		



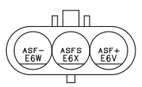
82824-E1150

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
84	RHEOSTAT	GR		



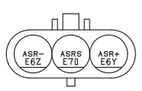
82824-E0U10

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
85	AIR_GAGE_SNSR_FR	B		FULL AIR BRAKE



82580-8980A

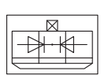
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
86	AIR_GAGE_SNSR_RR			FULL AIR BRAKE



82580-8980A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
87	PKB_OFF_DIODE	GR		HYDRAULIC BRAKE

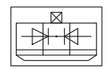
82560-4180A



85902-1210A

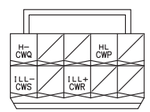
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
101	DRL_TAIL_DIODE	GR		

82560-4180A



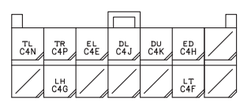
85902-1210A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
103	HAZARD_SW	B		



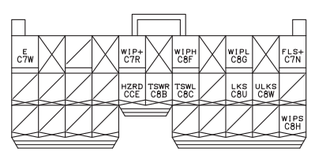
82824-E0P70

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
104	LIGHT&TURN_SW	B		



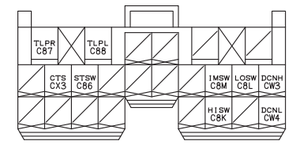
82560-2100A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
105	BCM_26P	B		



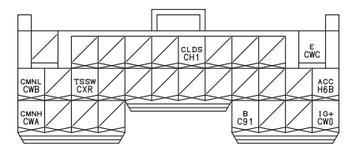
82824-E0S40

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
106	BCM_24P	B		



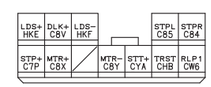
82824-E0S30

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
108	BCM_30P	B		



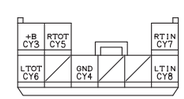
82824-E0Y40

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
109	BCM_12P			



82580-8740A

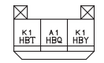
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
110	T_TURN_UNIT			TRAILER



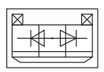
82560-2250A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
111	HL_DIODE	B		LED HEAD LAMP
113	DRL_DIODE_1	GR		
115	DRL_ECU(1)	B		
116	DRL_ECU(2)	B		
117	NP_BRAKE_SW_NO	B		HYDRAULIC BRAKE
118	STOP_LP_SW	B		HYDRAULIC BRAKE
119	NP_STOP_LP_SW	B		FULL AIR BRAKE
120	FLASHER_SHORT			
121	GRAND_AS1			
122	GRAND_AS2			
130	WIPER&RETARDER_SW			
131	WASHER_PUMP_MOTOR	B		
132	WIPER_MOTOR			
134	MIRROR_HEATER_SW	B		
136	CIG_LIGHTER			

111

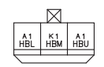


82560-4230A

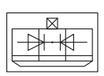


85902-1230A

113

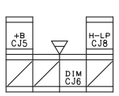


82560-4180A



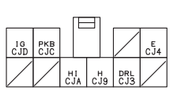
85902-1210A

115



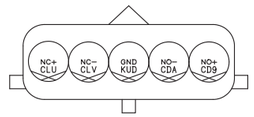
82580-7380A

116



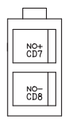
82824-E0Y50

117



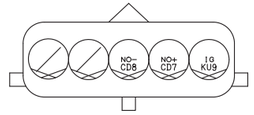
82828-1630A

118



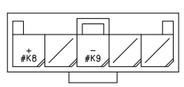
82828-1310A

119



82828-1630A

120



82560-2540A

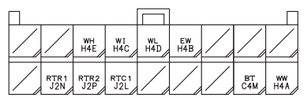
121

82583-1670A

122

82583-1640A

130

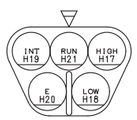


82560-2230A

131

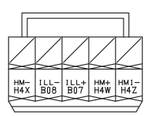
82580-6820B

132



82580-7270B

134

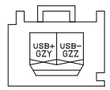


82824-E0P70

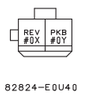
136

82580-4610A

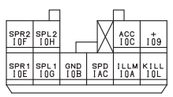
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
138	USB_SOCKET	B		
141	ADDITIONAL_AUDIO			
142	AUDIO			
143	FR_SPEAKER_LH			
144	FR_SPEAKER_RH			
150	IN/RH_SW	L		
151	IN/LH_SW			



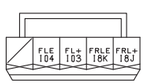
82824-E1710



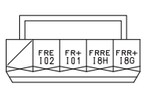
82824-E0U40



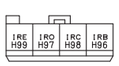
82824-E0V20



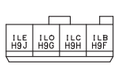
82824-E0N30



82824-E0N30

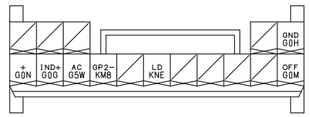


82560-2860A



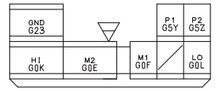
82560-2840A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
160	A/C_SWITCH			
161	BLOWER_MOTOR	B		
162	BLOWER_SWITCH			
163	BLOWER_REGISTER	B		
165	THERMISTOR			



82824-E0E40

82824-E0T40



82824-E0W90

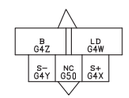
82580-9270A

82560-2510A

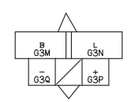
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
166	A/C_DIODE			
167	RR_HEATER_RLY			
168	RR_COOLER_RLY			
180	ACCEL_SSR	B		
181	DPR_REFRESH_SW	B		

82560-2030A

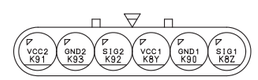
85902-1100A



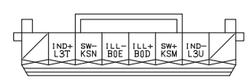
S8281-E0R30



S8281-E0R30

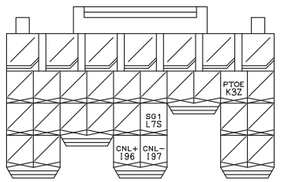


82824-E1590



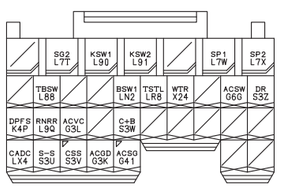
82824-E1B10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
182	VCS-ECU_31P			



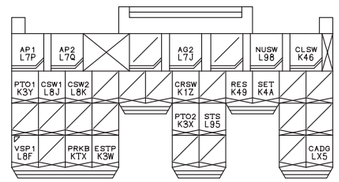
82824-E0060

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
184	VCS-ECU_34P			



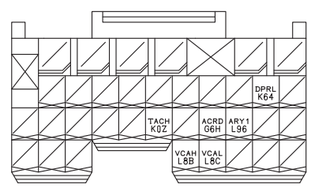
82824-E0080

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
185	VCS-ECU_35P-A			



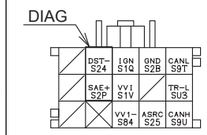
82824-E0090

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
186	VCS-ECU_35P-B			



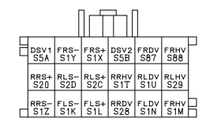
82824-E0100

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
210	ABS_ECU_E	B		FULL AIR BRAKE



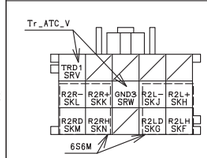
82580-9490A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
211	ABS_ECU_F	GR		FULL AIR BRAKE



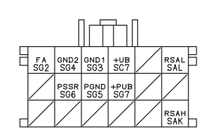
82580-9480A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
212	ABS_ECU_G	GR		FULL AIR BRAKE



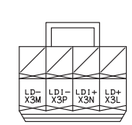
82580-9510A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
213	ABS_ECU_H			



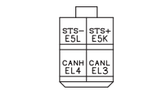
S8281-E0E20

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
214	LANEOFF_WARNING_SW	B		LDW

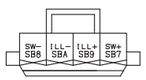


82824-E1690

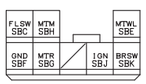
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
215	STEERING_SENSOR	B		FULL AIR BRAKE
217	VSC_OFF_SW	GR		
220	MONITOR_MODULE	GR		HYDRAULIC BRAKE
240	STP_ATM_DIODE_3P	B		



82824-E0U70

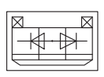


82824-E1B30



82824-E0U80

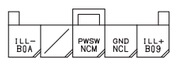
82560-4230A


85902-1230A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
240	STP_ATM_DIODE	B		FULL AIR BRAKE
241	TM_MODE_SW			ALLISON 2200/2500
242	ATM_BK_SW_DIODE	B		HYDRAULIC BRAKE

82560-3800A

85902-1200A

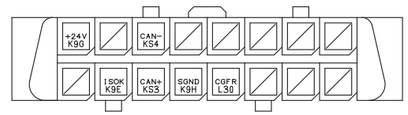


82560-2550A

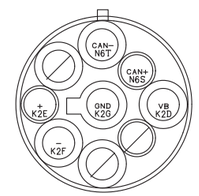
82560-3800A

85902-1200A

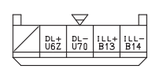
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
250	DLC3	B		
251	DIAG	G		
252	DIFF_LOCK_ON/OFF_SW	B		REAR DIFF LOCK
253	DIFF_LOCK_CNG_SW	L		XL SERIES REAR DIFF LOCK



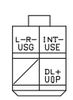
82560-3130A



S8281-E0M90
CAP:82585-1250A

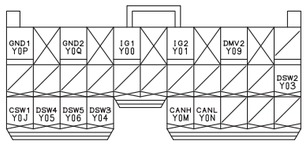


82824-E0U00

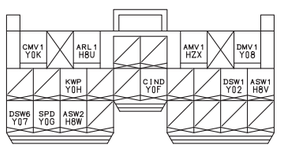


82824-E0U70

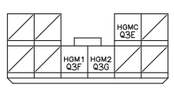
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
254	DIFF_LOCK_ECU(26P)			REAR DIFF LOCK
255	DIFF_LOCK_ECU(24P)			L SERIES REAR DIFF LOCK
256	AIR_SUS_DUMP_SW			
258	TELEMATICS_INFO			



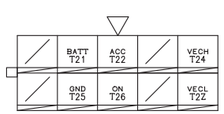
82824-E0S40



82824-E0S30

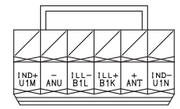


82580-7210A



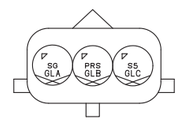
S8281-E0M40

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
261	SLIDE_COUPLER_SW	B		XL SERIES
270	CAN_IF	B		
280	A/C_PRES_SSR	B		
281	STA_CUT_DIODE	B		
282	IDLE_SHUTDOWN_DIODE	B		



82824-E1150

S8281-E0M50



82824-E0X30

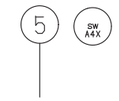
82560-3800A

85902-1200A

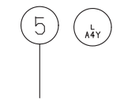
82560-3800A

85902-1200A

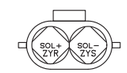
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
283	HEATER_RLY_SW			
284	HEATER_RLY_L			
285	FAN_CLUTCH_S/V	B		
400	TO_82111_1			



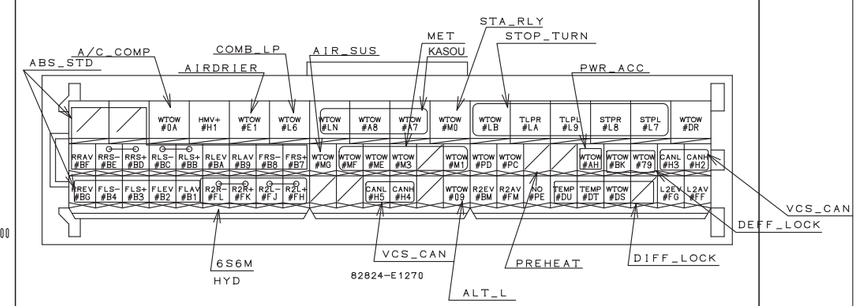
99141-11005



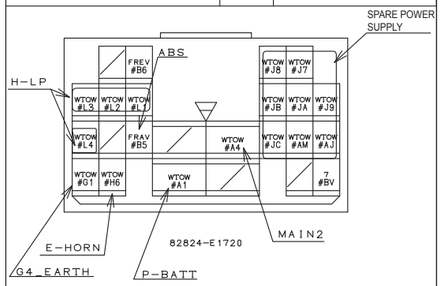
99141-11005



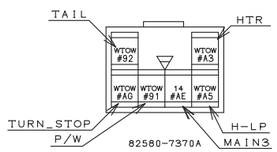
S8281-E0000



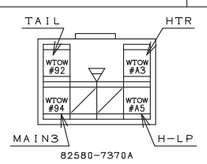
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
401	TO_82111_2	G		



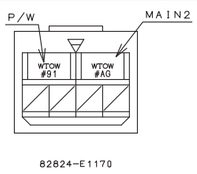
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
402	TO_82111_3			L SERIES



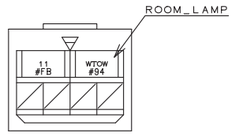
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
402	TO_82111_3			XL SERIES



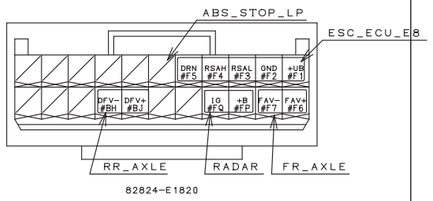
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
403	TO_82111_4			XL SERIES



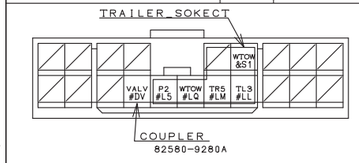
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
403	TO_82111_4			L SERIES



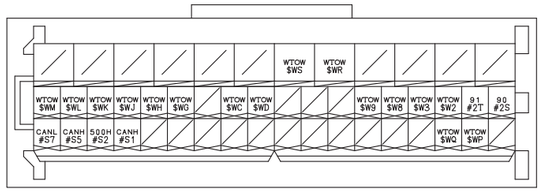
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
404	TO_82111_5			



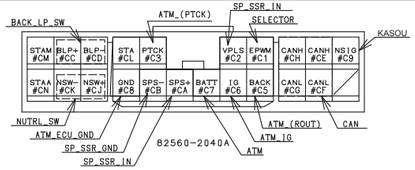
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
405	TO_82111_6			XL SERIES



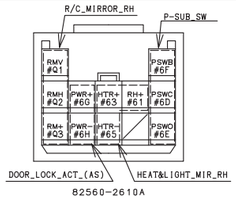
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
406	TO_82113			



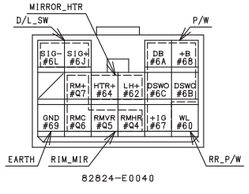
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
407	TO_82125			



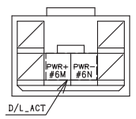
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
408	TO_82151_RH	O		



No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
409	TO_82152_LH1			

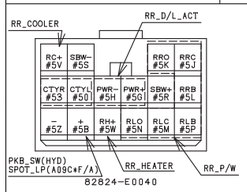


No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
410	TO_82152_LH2			KEYLESS ENTRY



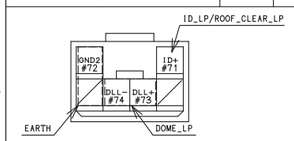
82580-6050A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
412	TO_82161			



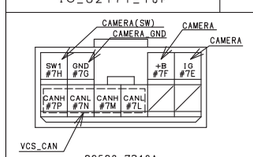
82824-E0040

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
413	TO_82171			



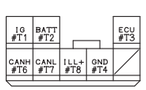
82580-6050A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
414	TO_82171_10P			



82580-7340A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
417	TO_82236			ALLISON 3000/3500



82824-E0U80

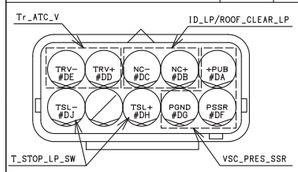
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
418	TO_EARTH_1			

82824-E0U40

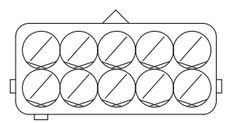
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
419	TO_EARTH_2			

82580-7320A

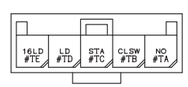
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
422	TO_82136_10P	B		



82824-E0B10

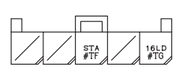

*82824-E0B20_CAP
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
423	TO_82223			L SERIES



82560-2540A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
424	ATM_SHORT			L SERIES

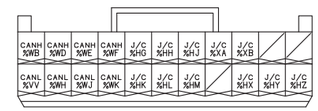


82560-2550A

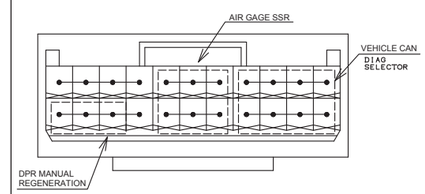
No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
425	DIAG_CUT_OFF	GR		

82824-E0U30

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
501	CAN_J/C_1	L		

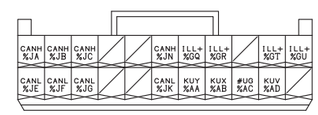


82824-E1330

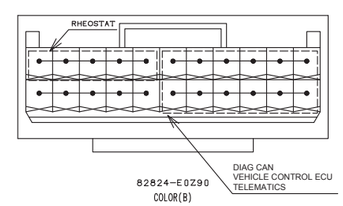


82824-E0Z40
COLOR(L)

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
502	CAN_J/C_2	B		

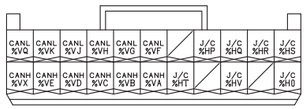


82824-E1330

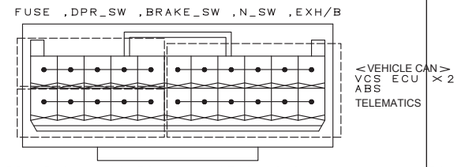


82824-E0Z90
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
503	CAN_J/C_3	B		

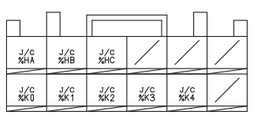


82824-E1330

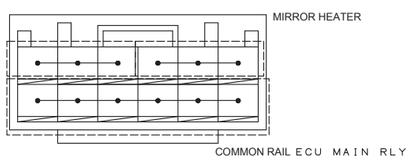


82824-E0Z90
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
504	J/C_4	B		

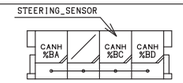


82824-E1390



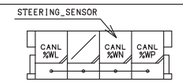
82824-E0Z30
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
505	CAN_J/C_5_H			



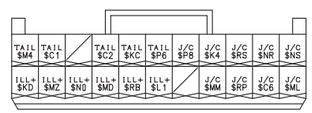
82550-1360A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
506	CAN_J/C_5_L			

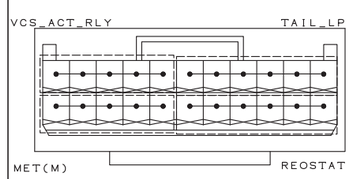


82550-1360A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
511	J/C_8	B		

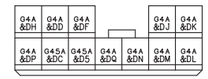


82824-E1330

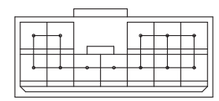


82824-E0Z90
COLOR(B)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
512	J/C_EARTH	L		

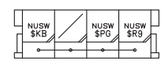


82824-E0U90



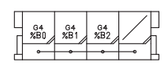
82550-1040A
COLOR(L)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
513	J/C_9			



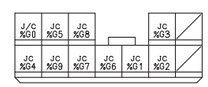
82550-1360A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
514	J/C_10			

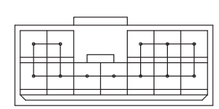


82550-1360A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
515	J/C_11	L		

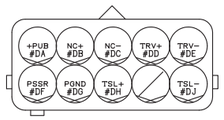
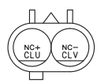
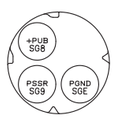
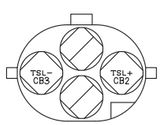
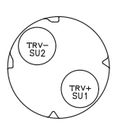


82824-E0U90

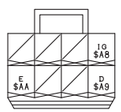
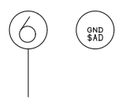
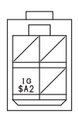
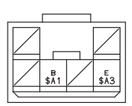
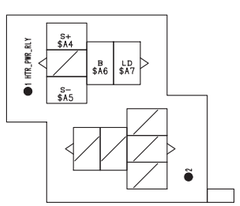


82550-1040A
COLOR(L)

82136(1/1)

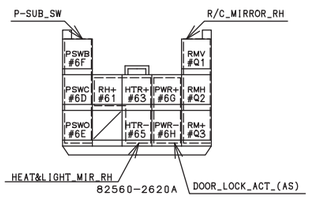
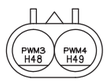
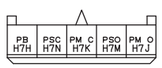
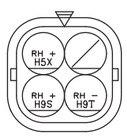
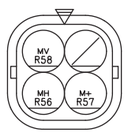
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131	B		
	 82824-E0B20		
2	BRAKE_SW(NC)	B		
	 82580-6820B			
3	VSC_PRES_SSR	B		
	 S8281-E0G80			
4	T_STOP_LP_SW	B		TRAILER
	 S8281-E0E70			
5	Tr_ATC_V	B		TRAILER
	 S8281-E0P00			

82142(1/1)

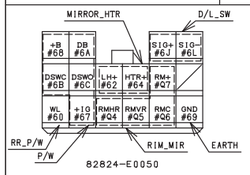
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	HTR_NAGATIVE	B		
	82580-7590A			
2	HTR_SWITCH	B		
	 82824-E1690			
3	GRAND			
	 98060-6020A			
4	TO_82131_253	L		
	 82580-8380A			
5	TO_82131_28	L		
	 82580-6050A			
6	HTR_RELAY			
	 *82660-E0060			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	HTR_POSITIVE	B		
	82580-7590A			

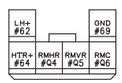
82151(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131_12P	O		
				
2	P/W_MTR_(AS)	B		
	 82560-4400A			
3	P-SUB_SW			
	 82580-6250A			
4	HEAT&LIGHT_MIR_RH			
	 82580-9460A			
5	DOOR_LOCK_ACT_(AS)	GR		
	 S8281-E0F10			
6	R/C_MIRROR_RH	B		
	 82580-9460A			

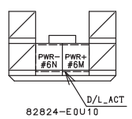
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131_16P			



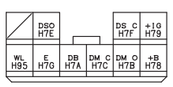
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131_LH1			



No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	TO_82131_6P			

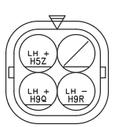


No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	D-MASTER_SW			

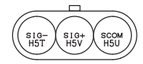


No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	P/W_MTR_(DR)	GR		

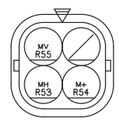
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	HEAT&LIGHT_MIR_LH			



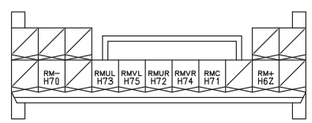
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	DOOR_LOCK_SW_(DR)	GR		



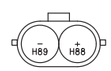
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	R/C_MIRROR_LH	B		



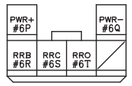
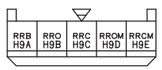
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
8	RIM_MIRROR_SW			



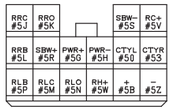
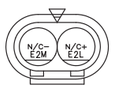
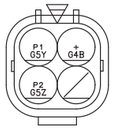
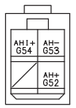
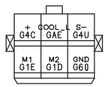
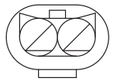
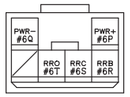
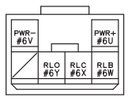
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
10	DOOR_LOCK_ACT_(DR)	GR		



82153(1/1)

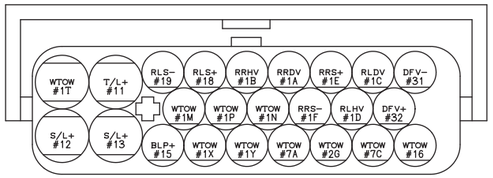
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82161			
	 82824-E0U10			
2	RR/RH_SW			
	 82560-3250A			
3	P/W_MTR_RR_RH	GR		
	82580-9420A			
4	DOOR_LOCK_RR_RH			CREW CAB
	82580-7660B			
5	W/S_DOOR_DMY			
	SPLCE-00001			

82161(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
1	TO_82131_16P			
	 82824-E0050			
2	CTY_SW_FR_R			
	82824-E0U30			
3	CTY_SW_FR_L			
	82824-E0U30			
4	SPOT_LAMP	B		XL SERIES WORKING LAMP
	82580-9420A			
5	PKB_SW	B		
	 82560-2940A			
7	S/B_SW	B		
	82580-6820B			
10	CTY_SW_RR_R			CREW CAB
	82824-E0U30			
11	CTY_SW_RR_L			CREW CAB
	82824-E0U30			
12	RR_HEATER_UNIT	B		REAR HEATER
	 82580-8340B			
13	RR_HEATER_SW	GR		REAR HEATER
	 82580-8380A			
14	RR_COOLER_UNIT	B		REAR COOLER
	 82560-2920A			
15	RR_BLOWER_SW			REAR COOLER
	82580-6920A			
16	COOLER_MAGNET_VALVE	GR		REAR COOLER
	82580-6600B			
	 82580-6590B_CAP COLOR(GR)			
50	TO_82153_RH			REAR P/W
	 82580-6050A			
51	TO_82153_LH			REAR P/W
	 82580-6050A			

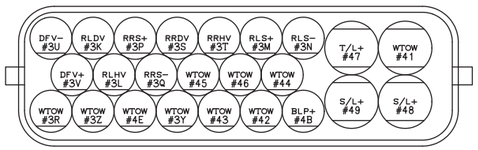
82164(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82111_24P	B		



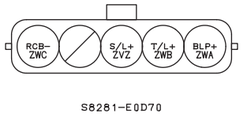
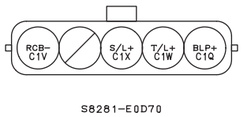
82824-E0K00

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	TO_82177_24P	B		



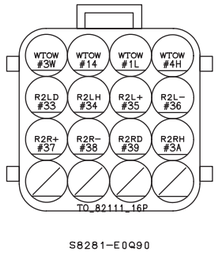
82560-1320A

82165(1/1)

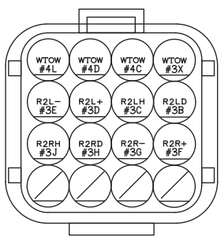
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	RR_COMB_LH_OUT	B		
				
3	RR_COMB_RH	B		
				

82169(1/1)

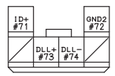
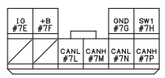
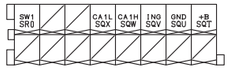
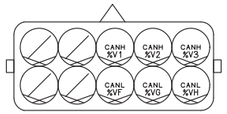
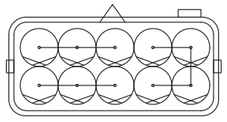
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82111_16P	B		
2	TO_82177_16P	B		



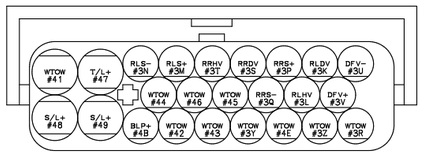
S8281-E0Q90



S8281-E0Q80

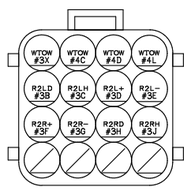
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82131_6P			
	 82824-E0U10			
2	TO_82131_10P			ABS WITH TCS, ESC & CMS
	 82580-7210A			
3	ROOF_C/L_LH	B		
	82580-7320A			
4	ID_LAMP_LH	B		
	82580-7320A			
5	ID_LAMP_CTR	B		
	82580-7320A			
6	ID_LAMP_RH	B		
	82580-7320A			
7	ROOF_C/L_RH	B		
	82580-7320A			
8	DOME_LAMP_RH			
	82580-3360A			
9	DOME_LAMP_LH			
	82580-3360A			
12	CAMERA	B		ABS WITH TCS, ESC & CMS
	 S8281-E0N40			
13	DOME_LAMP_RR_CTR			EXTENDED CAB
	82580-3360A			
14	DOME_LAMP_RR_RH			CREW CAB
	82580-3360A			
15	DOME_LAMP_RR_LH			CREW CAB
	82580-3360A			
20	CAN_J/C	B		ABS WITH TCS, ESC & CMS
	 S8281-E0E80			
	 S8281-E0E90			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82164_24P	B		



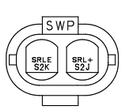
82824-E0K00

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	TO_82169_16P	B		XL SERIES



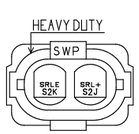
S8281-E0Q90

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	ABS_SENSOR_RR_LH	B		F/A*ABS * L SERIES _21MY



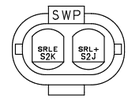
82560-3330A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	ABS_SENSOR_RR_LH	B		HYDRAULIC BRAKE



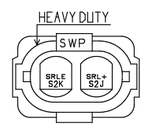
82560-4720A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	ABS_SENSOR_RR_LH_TCS	B		F/A*TCS * L SERIES _21MY F/A * L SERIES _22MY



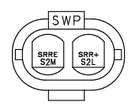
82560-3330A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	ABS_SENSOR_RR_LH_TCS	B		F/A*TCS * XL SERIES



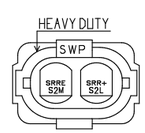
82560-4720A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	ABS_SENSOR_RR_RH	B		L SERIES _F/A



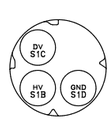
82560-3330A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	ABS_SENSOR_RR_RH	B		XL SERIES, L SERIES _HYDRAULIC BRAKE



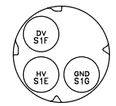
82560-4720A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	MODULATOR_RR_RH	B		21MY*F/A *ABS



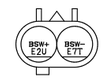
S8281-E0G80

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	MODULATOR_RR_LH	B		22MY*F/A *ABS



S8281-E0G80

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
8	BZR_OFF_SW	B		FULL AIR BRAKE

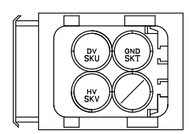


82580-6820B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
9	SPG_BRK_SW	DG		FULL AIR BRAKE

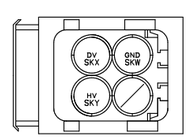
82580-6770B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
12	MODULATOR_R2_LH	B		XL SERIES ABS WITH TCS 6S/6M



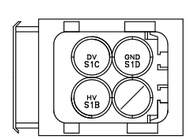
S8281-E0F50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
13	MODULATOR_R2_RH	B		XL SERIES ABS WITH TCS 6S/6M



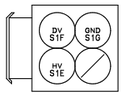
S8281-E0F50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
14	RR_AXLE_PACKAGE_RH	B		F/A*TCS F/A*ABS *22MY



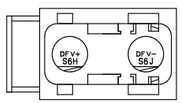
S8281-E0F50

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
15	RR_AXLE_PACKAGE_LH	B		F/A*TCS F/A*ABS *22MY

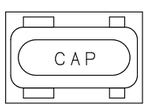


S8281-E0F40

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
16	RR_AXLE_PACKAGE_ATC	B		F/A*TCS

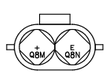


82824-E1640

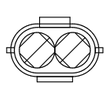


S8286-E0010

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
18	A/S_DUMP_ACT_M/V	B		XL SERIES *TCS OR L SERIES *ABS

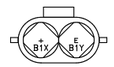


S8281-E0G00

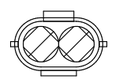


*S8281-E0G10_CAP

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
19	A/S_DUMP_EXH_M/V	B		



S8281-E0G00



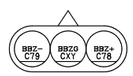
*S8281-E0G10_CAP

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
21	BACK_BUZZER	B		21MY

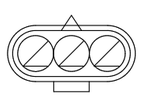
82580-6820B

82560-1670A_CAP

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
21	BACK_BUZZER	B		22MY

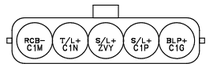


82580-7140B



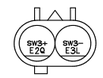
82580-7130B_CAP

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
22	RR_COMB_LH_IN	GR		

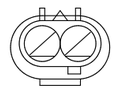


S8281-E0D60

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
23	L/PRES_SW_3	B		

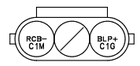


82580-6820B



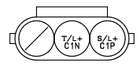
82560-1670A_CAP

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
24	RR_COMB_LH_1	B		XL SERIES TRACTOR



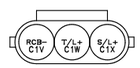
82828-1100A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
25	RR_COMB_LH_2	B		XL SERIES TRACTOR

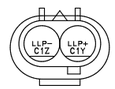
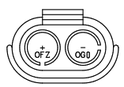
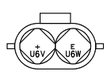
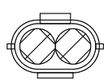


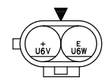
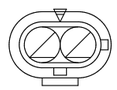
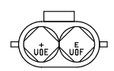
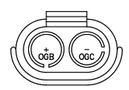
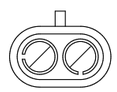
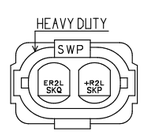
82828-1100A

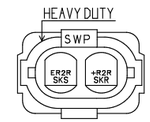
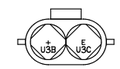
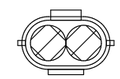
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
26	RR_COMB_RH	B		XL SERIES TRACTOR



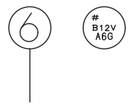
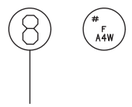
82828-1100A

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
27	LICENSE_LAMP	B		XL SERIES TRACTOR
	 82560-1670A			
	82580-6820B_CAP			
30	M_DIFF_LOCK_R1_SW	GR		
	 S8281-E0N90			
	*S8281-E0L20_CAP COLOR(GR)			
31	MN/D_M/V	B		
	 S8281-E0G00			
	 *S8281-E0G10_CAP			

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
31	MN_D_M/V			L SERIES _21MY
	 82580-9250A			
	 82580-7170B_CAP			
32	R/D_M/V	B		XL SERIES
	 S8281-E0G00			
35	M_DIFF_LOCK_R2_SW	GR		XL SERIES
	 S8281-E0N90			
	 *S8281-E0L20_CAP COLOR(GR)			
40	ABS_SENSOR_R2_LH	B		XL SERIES ABS 6S/6M
	 82560-4720A			

No.	PART NAME	CONN. COLOR	LOCATION	APPLICATION
41	ABS_SENSOR_R2_RH	B		XL SERIES ABS 6S/6M
	 82560-4720A			
45	SLIDE/C_M/V	B		XL SERIES SLIDE COUPLER
	 S8281-E0G00			
	 *S8281-E0G10_CAP			
50	W/S_&1B			
	SPLCE-W0001			

82213(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	INTAKE_HTR			
	 *7003-2070-02			
2	INTAKE_HTR_RLY			
	 *7003-1171-02			

82214(1/1)

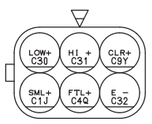
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82111	B		L SERIES

S8281-E0R10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82111	B		XL SERIES

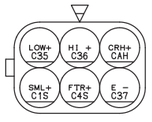
S8281-E0R10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	LED_HEADLAMP_LH	B		LED HEAD LAMP



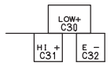
82580-8490B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
3	LED_HEADLAMP_RH	B		LED HEAD LAMP



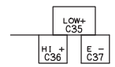
82580-8490B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
4	HEADLAMP_LH	B		HALOGEN HEAD LAMP



82580-2160A

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
5	HEADLAMP_RH	B		HALOGEN HEAD LAMP



82580-2160A

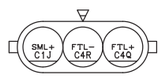
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
6	SIDE_TURN_LAMP_LH	GR		

82580-6770B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
7	SIDE_TURN_LAMP_RH	GR		

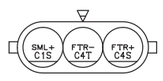
82580-6770B

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
8	F/TURN&MARKER_LP_LH	B		HALOGEN HEAD LAMP



82560-1730A

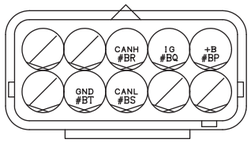
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
9	F/TUNRN&MARKER_RH	B		HALOGEN HEAD LAMP



82560-1730A

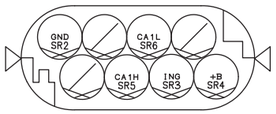
82219(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	TO_82111	B		XL SERIES ABS & CMS



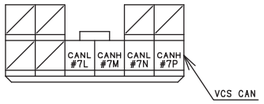
82824-E0B10

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	RADAR	B		XL SERIES ABS & CMS



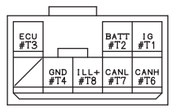
S8281-E0L10

82235(1/1)

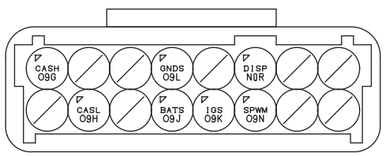
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	CMS _SHORT			
	 82580-7210A			
2	FLASHER_SHORT			
	82560-2550A			

82236(1/1)

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

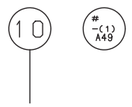
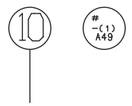
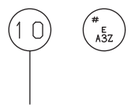
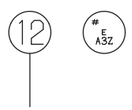


82824-E0T90

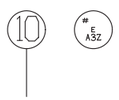
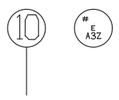
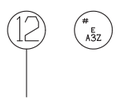
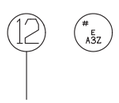
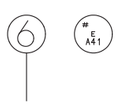


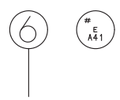
82828-1600A

82284(1/1)

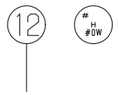
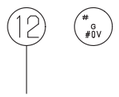
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	BATTERY			L SERIES
	 82675-E0450			
2	BATTERY			XL SERIES
	 *82583-1780A			
3	STARTER1			L SERIES
	 82675-E0450			
3	STARTER1			XL SERIES
	 *7003-1212-02			

82286(1/1)

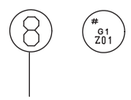
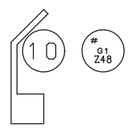
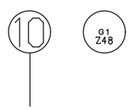
No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	STARTER_GND			L SERIES 12V-130A/135A
	 *7003-2072-02			
1	STARTER_GND			L SERIES 12V-160A
	 *7003-2091-02			
1	STARTER_GND			XL SERIES 12V-130A/135A
	 *7003-1182-02			
1	STARTER_GND			XL SERIES 12V-180A/200A
	 *7003-1192-02			
2	ALT-			12V-160A 12V-180A/200A
	 *7003-1965-02			

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
2	ALT-			12V-130A/135A
	 *82675-36040			

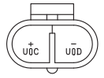
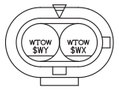
82287(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	STA_HOUSING			XL SERIES
	 *7003-1212-02			
2	STA_GND_TERMINAL			XL SERIES
	 *7003-1212-02			

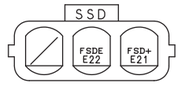
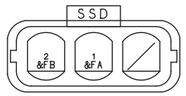
82288(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	CAB_GRAND(G3)			
	 SR142-00920			
2	CHASS_GRAND(G3)			FULL AIR BRAKE
	 *82675-E0520			
2	CHASS_GRAND(G3)			HYDRAULIC BRAKE
	 SR142-01120			

82291(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	AIR_DRIER	B		XL SERIES
	 82560-4660A			
2	TO_82111	B		XL SERIES
	 82580-7170B			

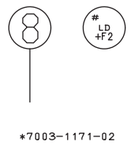
82412(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	FUEL_SENDER_RH	DG		L SERIES 50GAL. x2
	 82560-4350A			
2	FUEL_SENDER_WTOW2	DG		L SERIES 50GAL. x2
	 82824-E1080			

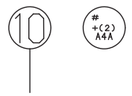
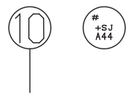
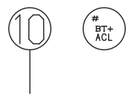
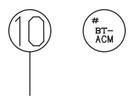
82422(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	STARTER_B 12 #B A3X *7003-2131-02			12V-130A/135A
1	STARTER_B 12 #B A3X *82675-E0560			12V-160A 12V-180A/200A
2	ALT+ 8 #B A40 *82675-E0110			12V-135A
2	ALT+ 8 #B A40 *82583-1960A			12V-160A 12V-180A/200A
2	ALT+ 8 #B A40 *7003-1171-02			12V-130A

82627(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	INTAKE_HTR_BATTERY			
				
2	INTAKE_HTR_RLY			

84523(1/1)

No.	PART NAME	CONN. COLOR	LOCATION	APPLI-CATION
1	BATTERY2_(+)			
	 99142-14100			
2	JUMP_STUD_POS			
	 99142-14100			
3	DISCONNECT_SW(+)			
	 99142-14100			
4	DISCONNECT_SW(−)			
	 99142-14100			
5	TO_82111	B		
	82824-E0Y80			

6. METRIC/U.S. CUSTOMARY UNIT EQUIVALENTS

Multiply:	by:	to get:	Multiply:	by:	to get:
LINEAR					
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
AREA					
inches^2	x 645.16	= millimeters^2 (mm^2)		x 0.00155	= inches^2
inches^2	x 6.452	= centimeters^2 (cm^2)		x 0.155	= inches^2
feet^2	x 0.0929	= meters (m^2)		x 10.764	= feet^2
VOLUME					
inches^3	x 16387.0	= millimeters^3 (mm^3)		x 0.000061	= inches^3
inches^3	x 16.387	= centimeters^3 (cm^3)		x 0.06102	= inches^3
inches^3	x 0.01639	= liters (l)		x 61.024	= inches^3
quarts	x 0.94635	= liters (l)		x 1.0567	= quarts
gallons	x 3.7854	= liters (l)		x 0.2642	= gallons
feet^3	x 28.317	= liters (l)		x 0.03531	= feet^3
feet^3	x 0.02832	= meters^3 (m^3)		x 35.315	= feet^3
fluid oz	x 29.57	= milliliters (ml)		x 0.03381	= fluid oz
MASS					
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)
FUEL ECONOMY					
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
POWER					
horsepower	x 0.746	= kilowatts (kw)		x 1.34	= horsepower
ft-lbf/min	x 0.0226	= watts (W)		x 44.25	= ft-lbf/min
TORQUE					
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
VELOCITY					
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
COMMON METRIC PREFIXES					
	mega (M)	= 1,000,000		centi (c)	= 0.01
	kilo (k)	= 1,000		milli (m)	= 0.001
	hecto (h)	= 100		micro (μ)	= 0.000001