

8W - 13 INTEGRATED POWER MODULE

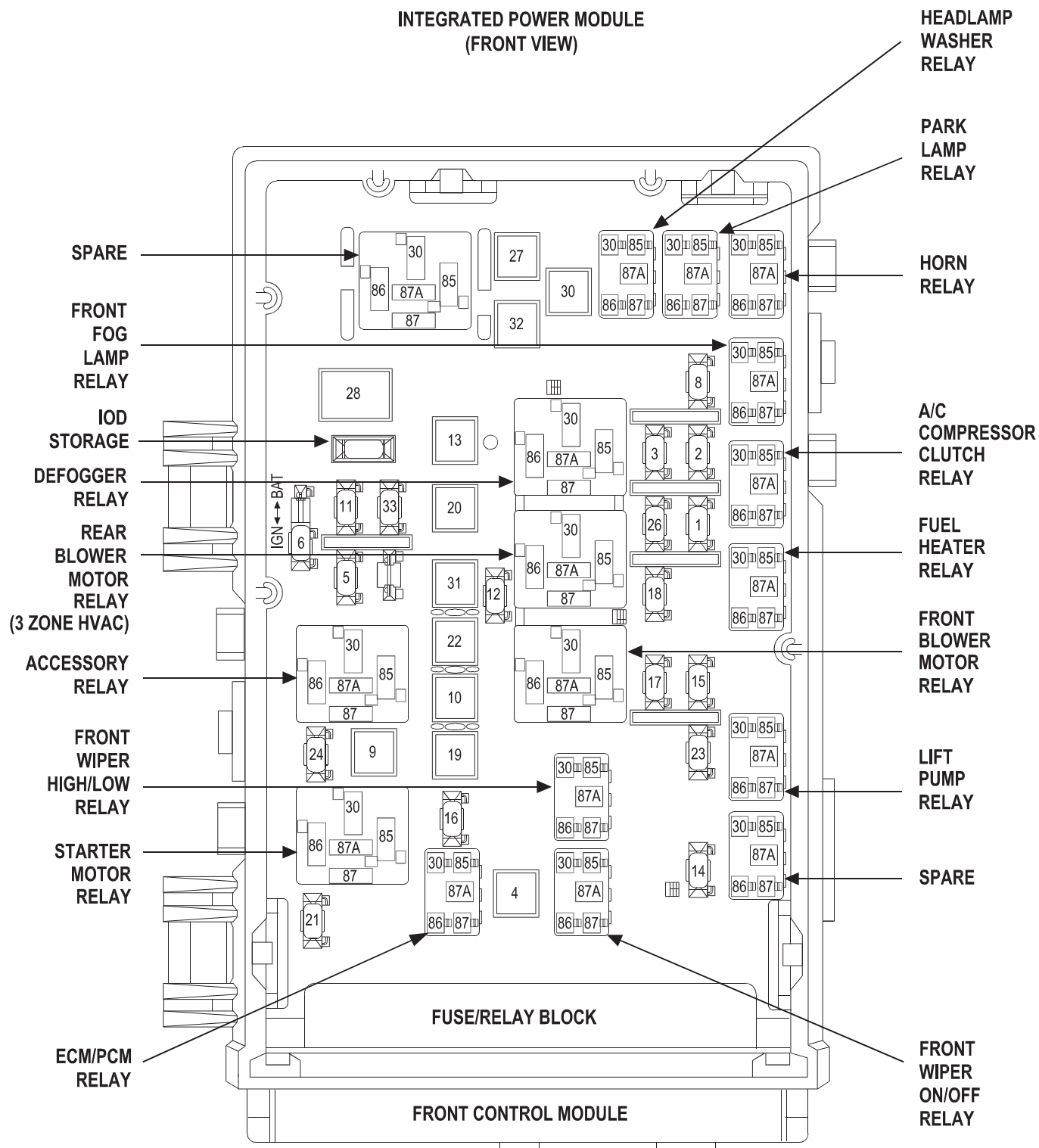
Component	Page
A/C Compressor Clutch	8W-13-33, 36
A/C Compressor Clutch Relay . .	8W-13-3, 4, 32, 33, 36
Accessory Relay	8W-13-3, 4, 19, 53
Adjustable Pedals Relay	8W-13-35, 48
Adjustable Pedals Switch	8W-13-28, 35
Ambient Temperature Sensor	8W-13-50
Amplifier	8W-13-19, 38
Anti-Lock Brake Module . .	8W-13-24, 25, 38, 44, 50, 55
Auto Shut Down Relay	8W-13-3, 29
Auto Temp Control	8W-13-28
Backup Lamp Switch	8W-13-54
Battery	8W-13-13, 14, 29, 36
Blower Motor Resistor	8W-13-26
Body Control Module .	8W-13-28, 33, 37, 38, 40, 42, 43, 44, 45, 55, 56
Brake Fluid Level Switch	8W-13-53
Brake Lamp Switch	8W-13-40, 55
Brake Transmission Shift Interlock Solenoid	8W-13-51
Cabin Heater Assist	8W-13-31, 48
Camshaft Position Sensor	8W-13-32
Center High Mounted Stop Lamp	8W-13-55
Clockspring	8W-13-49
Clutch Pedal Interlock Switch	8W-13-25, 42, 43, 49
Controller Anti-Lock Brake	8W-13-24, 25, 38, 44, 50, 55
Crank Case Ventilation Heater	8W-13-37
DVD/CD Changer	8W-13-28
Data Link Connector	8W-13-23, 50, 56
Defogger Relay	8W-13-3, 4, 27, 52
Driver Heated Seat Module	8W-13-38
Driver Power Seat Switch	8W-13-38
Driver Power Window Switch	8W-13-21, 22
ECM/PCM Relay	8W-13-4, 31
EGR Solenoid	8W-13-32
Engine Control Module	8W-13-25, 31, 32, 36, 50, 55
Floor Console Lamp	8W-13-20
Floor Console Power Outlet	8W-13-20, 23
Front Blower Module	8W-13-26
Front Blower Motor Relay	8W-13-3, 4, 26, 52
Front Cigar Lighter	8W-13-20
Front Control Module .	8W-13-15, 16, 17, 18, 19, 23, 24, 25, 26, 27, 33, 35, 36, 41, 42, 43, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57
Front Fog Lamp Relay	8W-13-3, 4, 15, 52
Front Wiper High/Low Relay . .	8W-13-3, 4, 18, 53
Front Wiper On/Off Relay	8W-13-3, 4, 18, 48
Fuel Heater	8W-13-37
Fuel Heater Relay	8W-13-4, 36, 53

Component	Page
Fuel Injector No. 1	8W-13-30
Fuel Injector No. 2	8W-13-30
Fuel Injector No. 3	8W-13-30
Fuel Injector No. 4	8W-13-30
Fuel Injector No. 5	8W-13-30
Fuel Injector No. 6	8W-13-30
Fuel Pressure Solenoid	8W-13-32
Fuel Pump Module	8W-13-33
Fuel Pump Relay	8W-13-3, 33, 53
Fuse 1	8W-13-15
Fuse 2	8W-13-16, 17
Fuse 3	8W-13-16, 17
Fuse 4	8W-13-18
Fuse 5	8W-13-19
Fuse 6	8W-13-19
Fuse 8	8W-13-23
Fuse 9	8W-13-24, 25
Fuse 10	8W-13-26
Fuse 11	8W-13-19
Fuse 12	8W-13-26
Fuse 13	8W-13-27
Fuse 14	8W-13-27, 35, 48
Fuse 15	8W-13-29, 31
Fuse 16	8W-13-29, 31
Fuse 17	8W-13-33, 36
Fuse 18	8W-13-33, 36
Fuse 19	8W-13-38
Fuse 20	8W-13-38
Fuse 21	8W-13-38
Fuse 22	8W-13-38
Fuse 23	8W-13-42, 43
Fuse 24	8W-13-40
Fuse 26	8W-13-40
Fuse 27	8W-13-40
Fuse 28	8W-13-19
Fuse 30	8W-13-41
Fuse 31	8W-13-41
Fuse 32	8W-13-41
Fusible Link	8W-13-13, 14
G100	8W-13-13, 14, 44
G101	8W-13-13, 14, 29, 36, 56
G103	8W-13-56
G300	8W-13-46, 47
Generator	8W-13-13, 14, 32
Glow Plug Relay	8W-13-14, 32
Hands Free Module	8W-13-28
Headlamp Switch	8W-13-17, 51
Headlamp Washer Pump Motor	8W-13-41
Headlamp Washer Relay	8W-13-3, 4, 41, 52
High Note Horn	8W-13-23
Horn Relay	8W-13-3, 4, 23, 48
Ignition Coil	8W-13-30

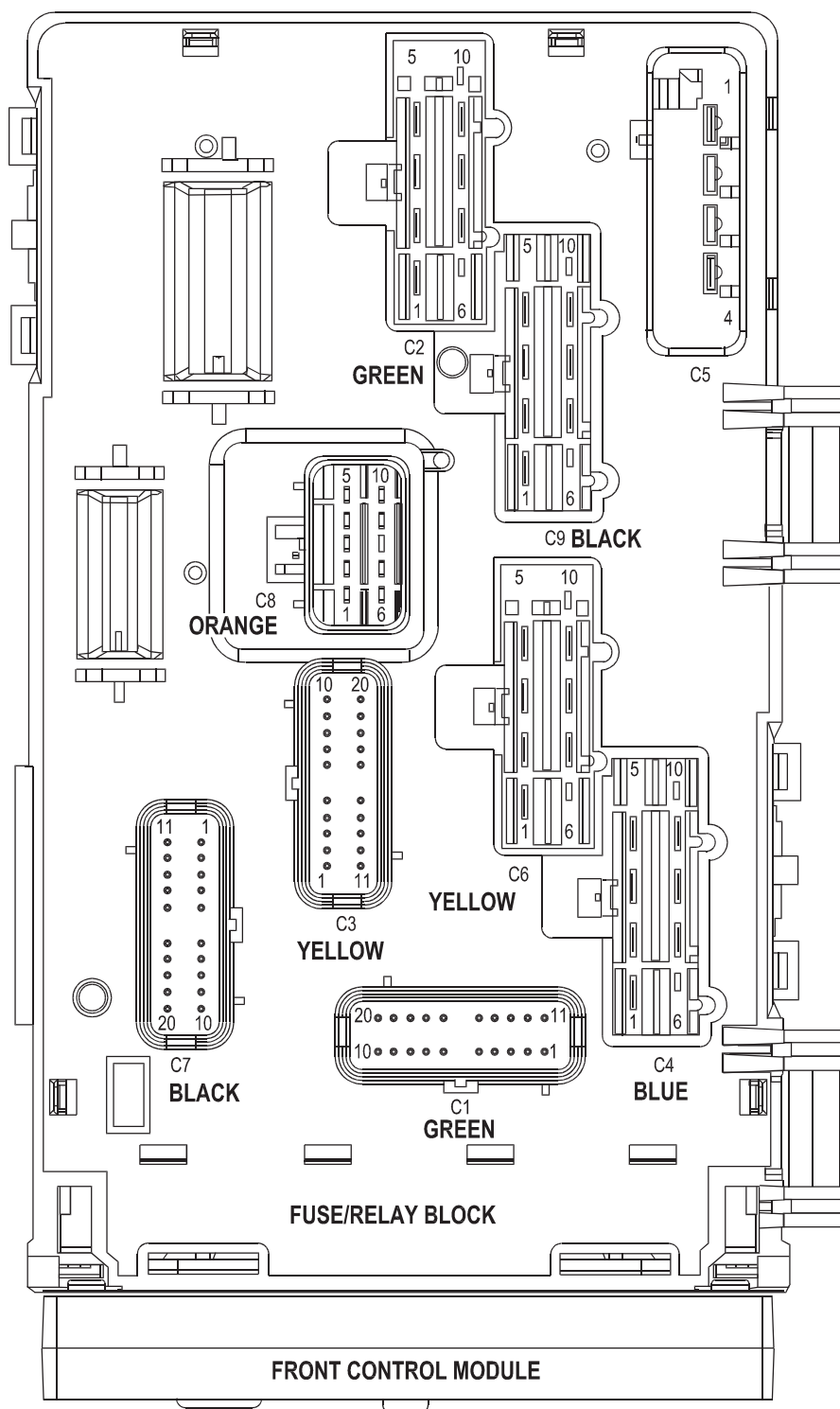
Component	Page
Ignition Switch . 8W-13-24, 25, 33, 34, 37, 42, 43, 49	
Instrument Cluster 8W-13-40	
Instrument Panel Switch Bank 8W-13-57	
Integrated Power Module . 8W-13-3, 4, 5, 15, 16, 17, 18, 19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57	
Left Fog Lamp 8W-13-15	
Left Front Park/Turn Signal Lamp 8W-13-16, 45, 54	
Left Headlamp 8W-13-46	
Left Headlamp Leveling Motor . . . 8W-13-17, 51, 54	
Left High Beam Lamp 8W-13-47	
Left Low Beam Lamp 8W-13-47	
Left Park Lamp 8W-13-17, 47, 54	
Left Power Mirror 8W-13-27	
Left Rear Lamp Assembly 8W-13-16, 17, 54	
Left Repeater Lamp 8W-13-40	
Left Sliding Door Control Module 8W-13-41	
Left Turn Signal Lamp 8W-13-45	
License Lamp 8W-13-16, 17, 54	
Lift Pump Relay 8W-13-4, 31	
Mass Air Flow Sensor 8W-13-32	
Memory Seat/Mirror/Adjustable Pedals Module 8W-13-38	
Message Center 8W-13-40	
Occupant Classification Module 8W-13-57	
Occupant Restraint Controller 8W-13-52, 57	
Overhead Console 8W-13-28	
PTC 4 8W-13-27	
PTC 7 8W-13-23	
Park Assist Module 8W-13-33, 42	
Park Lamp Relay 8W-13-3, 4, 16, 17, 48	
Passenger Airbag On/Off Indicator Lamp 8W-13-57	
Passenger Folding Mirror Relay 8W-13-33, 36	
Passenger Heated Seat Module 8W-13-39	
Passenger Power Seat Switch 8W-13-39	
Passenger Power Window Switch 8W-13-19	
Power Liftgate Module 8W-13-41	
Power Mirror Switch 8W-13-35, 36	
Power Outlet 8W-13-23	
Power Seat Circuit Breaker 8W-13-38	
Power Window Circuit Breaker 8W-13-19	

Component	Page
Power Window Switch 8W-13-21	
Powertrain Control Module . . 8W-13-24, 29, 30, 33, 44, 50, 51, 56	
Radiator Fan Relay 8W-13-40, 44	
Radiator Fan Relay No. 1 8W-13-14, 32	
Radiator Fan Relay No. 2 8W-13-32, 40	
Radiator Fan Relay No. 3 8W-13-32	
Radio 8W-13-19, 28	
Rear A/C-Heater Unit 8W-13-26	
Rear Blower Motor Power Module 8W-13-26	
Rear Blower Motor Relay 8W-13-3, 4, 26, 52	
Rear Power Outlet 8W-13-19, 20	
Rear Window Defogger Grid 8W-13-27	
Rear Wiper Motor 8W-13-19	
Right Fog Lamp 8W-13-15	
Right Front Park/Turn Signal Lamp 8W-13-16, 45, 49	
Right Headlamp 8W-13-46	
Right Headlamp Leveling Motor . . 8W-13-17, 49, 51	
Right High Beam Lamp 8W-13-47	
Right Low Beam Lamp 8W-13-47	
Right Park Lamp 8W-13-17, 47, 49	
Right Power Mirror 8W-13-27	
Right Rear Lamp Assembly . . . 8W-13-16, 17, 49, 55	
Right Repeater Lamp 8W-13-40	
Right Sliding Door Control Module 8W-13-41	
Right Turn Signal Lamp 8W-13-45	
Sentry Key Remote Entry Module 8W-13-28, 34, 37, 42, 43	
Siren 8W-13-28	
Starter Motor 8W-13-13, 14, 24, 25	
Starter Motor Relay 8W-13-3, 4, 24, 25, 42, 43	
Sunroof Module 8W-13-19, 41	
Thatcham Alarm Module . . 8W-13-28, 34, 37, 43, 56	
Trailer Tow Connector 8W-13-16, 54	
Transmission Control Module 8W-13-14, 50	
Transmission Control Relay 8W-13-3, 14, 29	
Transmission Solenoid/Pressure Switch Assembly 8W-13-29	
Vehicle Speed Sensor 8W-13-31	
Washer Fluid Level Switch 8W-13-49	
Washer Pump Motor 8W-13-57	
Wiper Module 8W-13-18, 48	





**INTEGRATED POWER MODULE
(REAR VIEW)**



FUSES

FUSE NO.	AMPS	FUSED CIRCUIT	FUNCTION
1	20A	INTERNAL ○○○	FUSED B(+)
2	15A	INTERNAL	FUSED PARK LAMP RELAY OUTPUT (LEFT)
3	15A	INTERNAL	FUSED PARK LAMP RELAY OUTPUT (RIGHT)
4	30A	INTERNAL	FUSED B(+)
5	20A	F306 16DB/PK	FUSED ACCESSORY RELAY OUTPUT
6	20A	F307 18LB/PK ■■■	FUSED B(+)
6	20A	F307 18LB/PK ■■■■	FUSED ACCESSORY RELAY OUTPUT
8	20A	INTERNAL	FUSED B(+)
9	40A	INTERNAL	FUSED B(+)
10	40A	C7 12DB	FUSED FRONT BLOWER MOTOR RELAY OUTPUT
11	20A	F302 18GY/PK	FUSED ACCESSORY RELAY OUTPUT
12	25A	C51 12LB/BR □□□	FUSED REAR BLOWER MOTOR RELAY OUTPUT
13	40A	C15 12DB/WT	FUSED DEFOGGER RELAY OUTPUT
14	20A	INTERNAL	FUSED B(+) (I.O.D.)
15	20A	INTERNAL ■	FUSED B(+)
15	20A	INTERNAL ○○	FUSED B(+)
16	25A	INTERNAL	FUSED B(+)
17	20A	INTERNAL	FUSED B(+)
18	15A	INTERNAL	FUSED B(+)
19	40A	A101 12VT/RD	FUSED B(+)
20	30A	A116 14YL/RD ●●●	FUSED B(+)
21	25A	A111 12DG/RD ◇◇◇	FUSED B(+)
22	40A	A110 12OR/RD	FUSED B(+)
23	10A	A106 20LB/RD	FUSED B(+)
24	20A	A701 16BR/RD	FUSED B(+) (HAZARD)
26	20A	A103 18GY/RD	FUSED B(+)
27	40A	A112 12OR/RD	FUSED B(+)
28	40A	F30 12PK/YL	FUSED ACCESSORY RELAY OUTPUT
30	40A	INTERNAL ▲▲	FUSED B(+)
31	40A	A113 12WT/RD	FUSED B(+)
32	40A	A115 12YL/RD	FUSED B(+)

■ EATX GAS
 ▲▲ EXPORT
 ◇◇◇ ABS

○○ DIESEL
 ○○○ FOG LAMPS
 ●●● HIGHLINE AUDIO

□□□ 3 ZONE HVAC
 ■■■ BATTERY POSITION
 ■■■■ ACCESSORY RELAY POSITION

POSITIVE TEMPERATURE COEFFICIENTS

PTC NO.	AMPS	FUSED CIRCUIT	FUNCTION
4	8A	C16 20DB/GY	FUSED DEFOGGER RELAY OUTPUT
7	13A	A105 18DB/RD	FUSED B(+)

RELAYS

A/C COMPRESSOR CLUTCH RELAY

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	C13 18LB/OR ○	A/C CLUTCH RELAY CONTROL
85	C13 20LB/OR ○○	A/C COMPRESSOR CLUTCH RELAY CONTROL
86	F202 18PK/GY ○	FUSED IGNITION SWITCH OUTPUT (RUN-START)
86	K342 16BR/WT ○○	ECM/PCM RELAY OUTPUT
87	C3 18DB/YL	A/C COMPRESSOR CLUTCH RELAY OUTPUT
87A	-	-

ACCESSORY RELAY

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	B(+)
85	FCM 35	ACCESSORY RELAY CONTROL (RUN-ACC)
86	INTERNAL	B(+)
87	INTERNAL	FUSED ACCESSORY RELAY OUTPUT
87A	-	-

AUTO SHUT DOWN RELAY (GAS)

CAVITY	CIRCUIT	FUNCTION
30	K342 16BR/WT	ASD RELAY OUTPUT
85	K51 18BR/WT	ASD RELAY CONTROL
86	INTERNAL	FUSED B(+)
87	INTERNAL	FUSED B(+)
87A	-	-

○ GAS
○○ DIESEL

**DEFOGGER
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	B(+)
85	FCM 31	DEFOGGER RELAY CONTROL
86	INTERNAL	B(+)
87	INTERNAL	DEFOGGER RELAY OUTPUT
87A	-	-

**ECM/PCM
RELAY
(DIESEL)**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	K51 20BR/WT	ECM/PCM RELAY CONTROL
86	INTERNAL	FUSED B(+)
87	K342 16BR/WT	ECM/PCM RELAY OUTPUT
87A	-	-

**FRONT
BLOWER
MOTOR
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	B(+)
85	FCM 30	FRONT BLOWER MOTOR RELAY CONTROL
86	INTERNAL	B(+)
87	C7 12DB	FUSED FRONT BLOWER MOTOR RELAY OUTPUT
87A	-	-

**FRONT
FOG
LAMP
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	FCM 33	FRONT FOG LAMP RELAY CONTROL
86	INTERNAL	FUSED B(+)
87	INTERNAL	FRONT FOG LAMP RELAY OUTPUT
87A	-	-

**FRONT
WIPER
HIGH/LOW
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FRONT WIPER ON/OFF RELAY OUTPUT
85	FCM 34	FRONT WIPER HIGH/LOW RELAY CONTROL
86	INTERNAL	FRONT WIPER ON/OFF RELAY OUTPUT
87	W4 12BR/OR	FRONT WIPER HIGH/LOW RELAY HIGH SPEED OUTPUT
87A	W3 12BR/WT	FRONT WIPER HIGH/LOW RELAY LOW SPEED OUTPUT

**FRONT
WIPER
ON/OFF
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FRONT WIPER ON/OFF RELAY OUTPUT
85	INTERNAL	FUSED B(+)
86	FCM 14	FRONT WIPER ON/OFF RELAY CONTROL
87	INTERNAL	FUSED B(+)
87A	INTERNAL	GROUND

**FUEL
HEATER
RELAY
(DIESEL)**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	Z114 18BK/LG	GROUND
86	INTERNAL	FUSED IGNITION SWITCH OUTPUT (RUN-START)
87	N1 16DB/OR	FUEL HEATER RELAY OUTPUT
87A	-	-

**FUEL
PUMP
RELAY
(GAS)**

CAVITY	CIRCUIT	FUNCTION
30	N1 18DB/OR	FUEL PUMP RELAY OUTPUT
85	K31 18BR	FUEL PUMP RELAY CONTROL
86	INTERNAL	FUSED IGNITION SWITCH OUTPUT (RUN-START)
87	INTERNAL	FUSED B(+)
87A	-	-

**HEADLAMP
WASHER
RELAY
(EXPORT)**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	FCM 32	HEADLAMP WASHER RELAY CONTROL
86	INTERNAL	FUSED B(+)
87	V53 12BR/OR	HEADLAMP WASHER RELAY OUTPUT
87A	-	-

**HORN
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	FCM 10	HORN RELAY CONTROL
86	INTERNAL	FUSED B(+)
87	X2 18DG/OR	HORN RELAY OUTPUT
87A	-	-

**LIFT
PUMP
RELAY
(DIESEL)**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	N21 20DB/TN	LIFT PUMP RELAY CONTROL
86	F202 18PK/GY	FUSED IGNITION SWITCH OUTPUT (RUN-START)
87	N2 18DB/YL	LIFT PUMP RELAY OUTPUT
87A	-	-

**PARK
LAMP
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	B(+)
85	FCM 13	PARK LAMP RELAY CONTROL
86	INTERNAL	B(+)
87	INTERNAL	PARK LAMP RELAY OUTPUT
87A	-	-

**REAR
BLOWER
MOTOR
RELAY
(3 ZONE HVAC)**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	B(+)
85	FCM 30	REAR BLOWER MOTOR RELAY CONTROL
86	INTERNAL	B(+)
87	C51 12LB/BR	FUSED REAR BLOWER MOTOR RELAY OUTPUT
87A	-	-

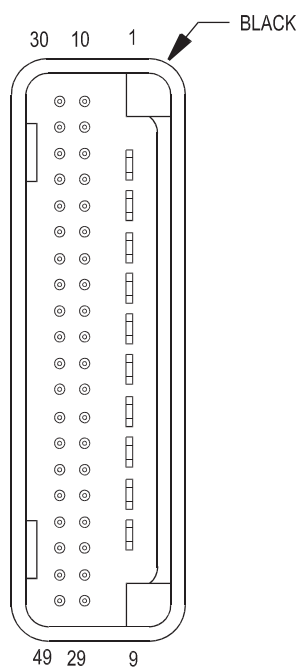
**STARTER
MOTOR
RELAY**

CAVITY	CIRCUIT	FUNCTION
30	INTERNAL	FUSED B(+)
85	T752 18DG/OR ○	STARTER MOTOR RELAY CONTROL
85	T752 20DG/OR ○○	STARTER MOTOR RELAY CONTROL
86	INTERNAL	FUSED IGNITION SWITCH OUTPUT (START)
87	T750 12YL/GY	STARTER MOTOR RELAY OUTPUT
87A	-	-

**TRANSMISSION
CONTROL
RELAY
(GAS)**

CAVITY	CIRCUIT	FUNCTION
30	T16 18YL/OR	TRANSMISSION CONTROL RELAY OUTPUT
85	Z115 18BK/OR *	GROUND
85	Z115 20BK/OR **	GROUND
86	T15 18YL/BR	TRANSMISSION CONTROL RELAY CONTROL
87	INTERNAL	FUSED B(+)
87A	-	-

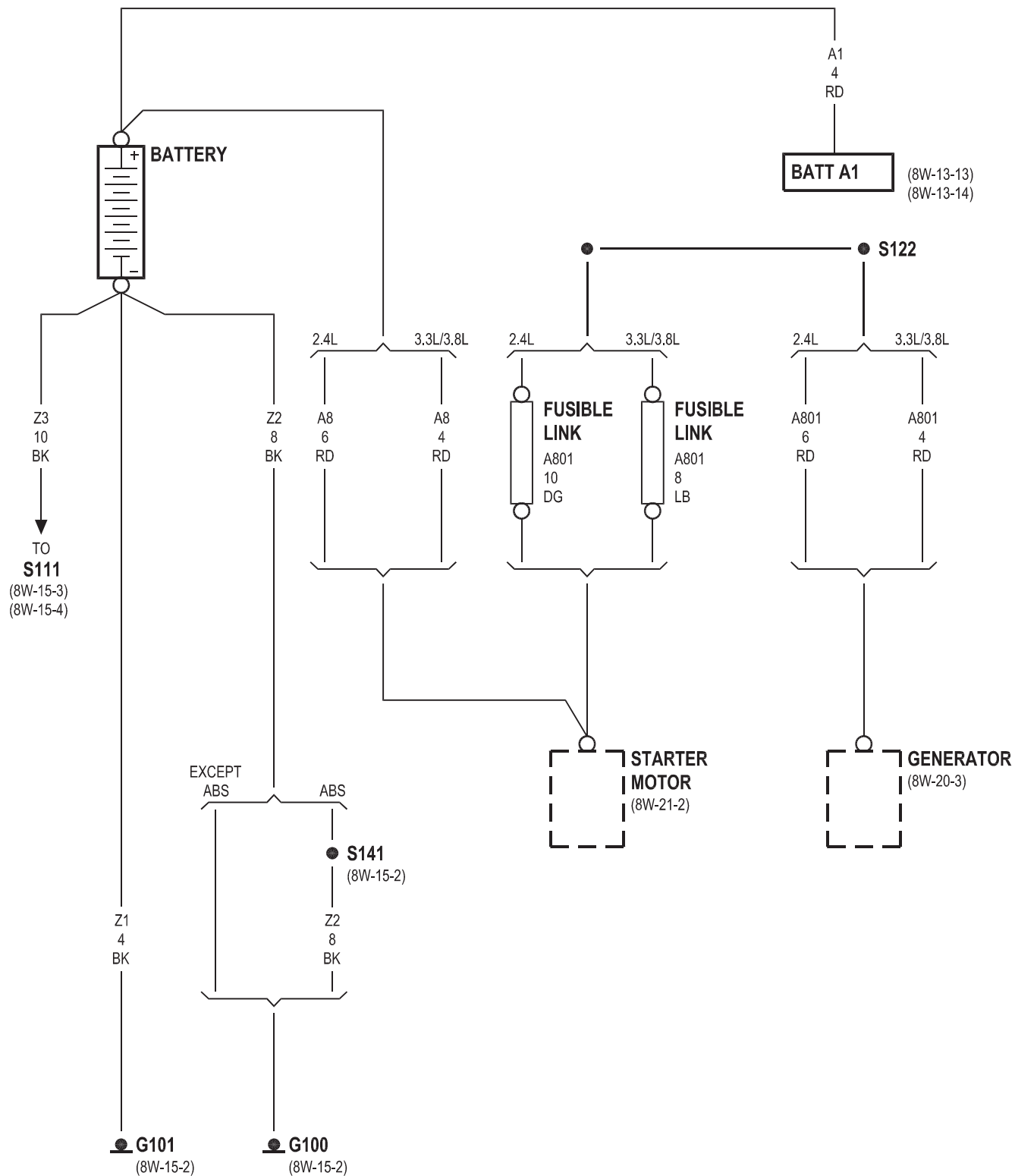
○ GAS * 2.4L
○○ DIESEL ** 3.3L/3.8L

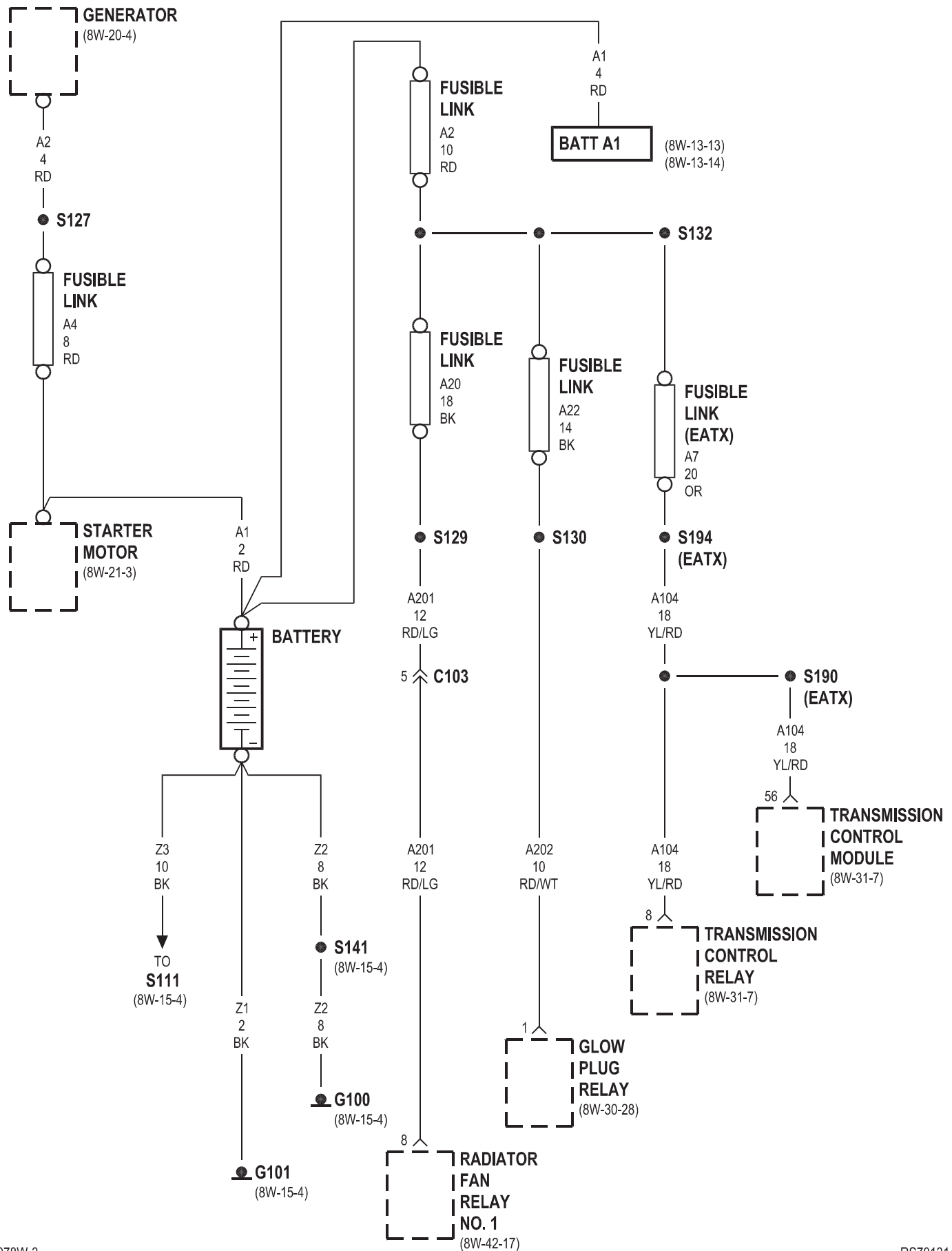


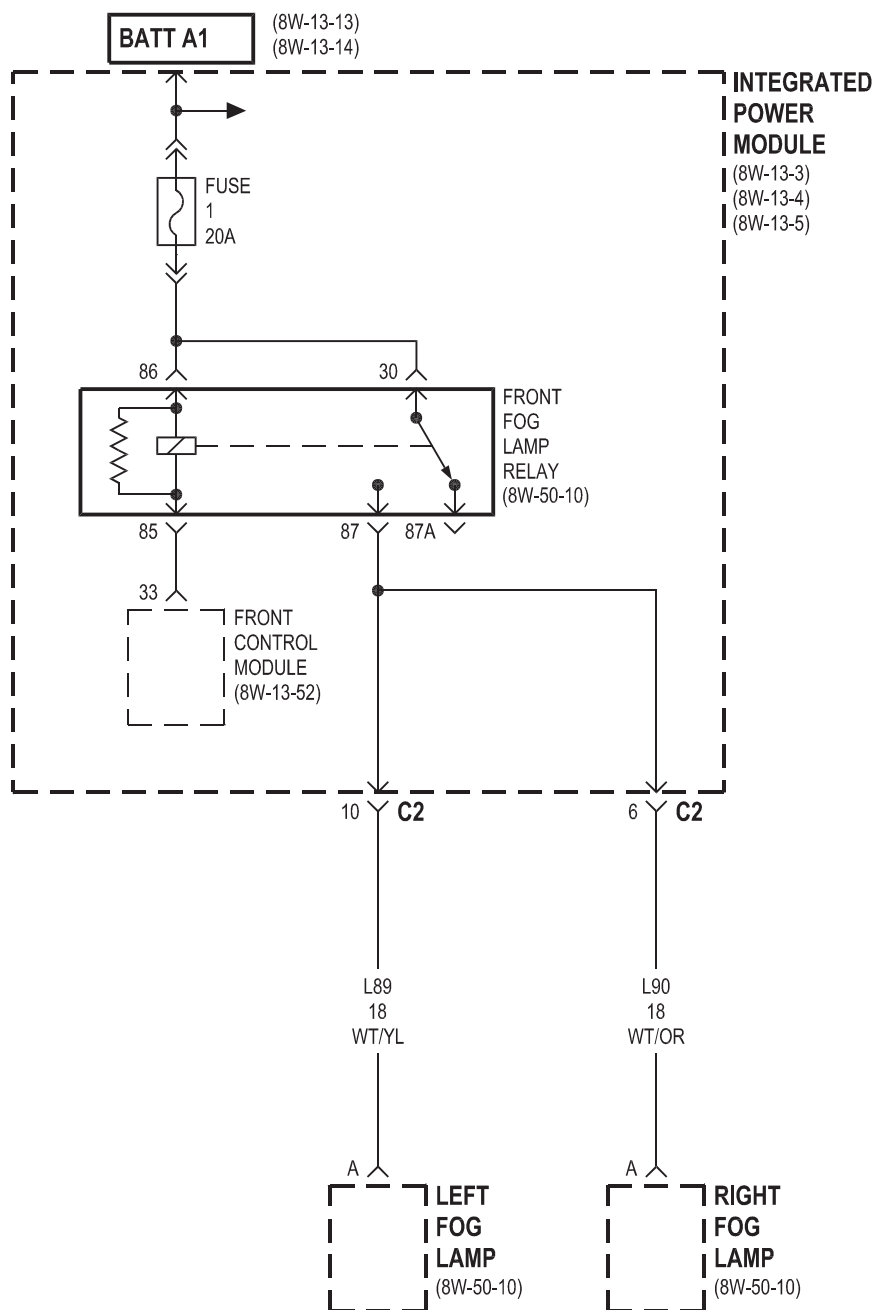
**FRONT
CONTROL
MODULE**

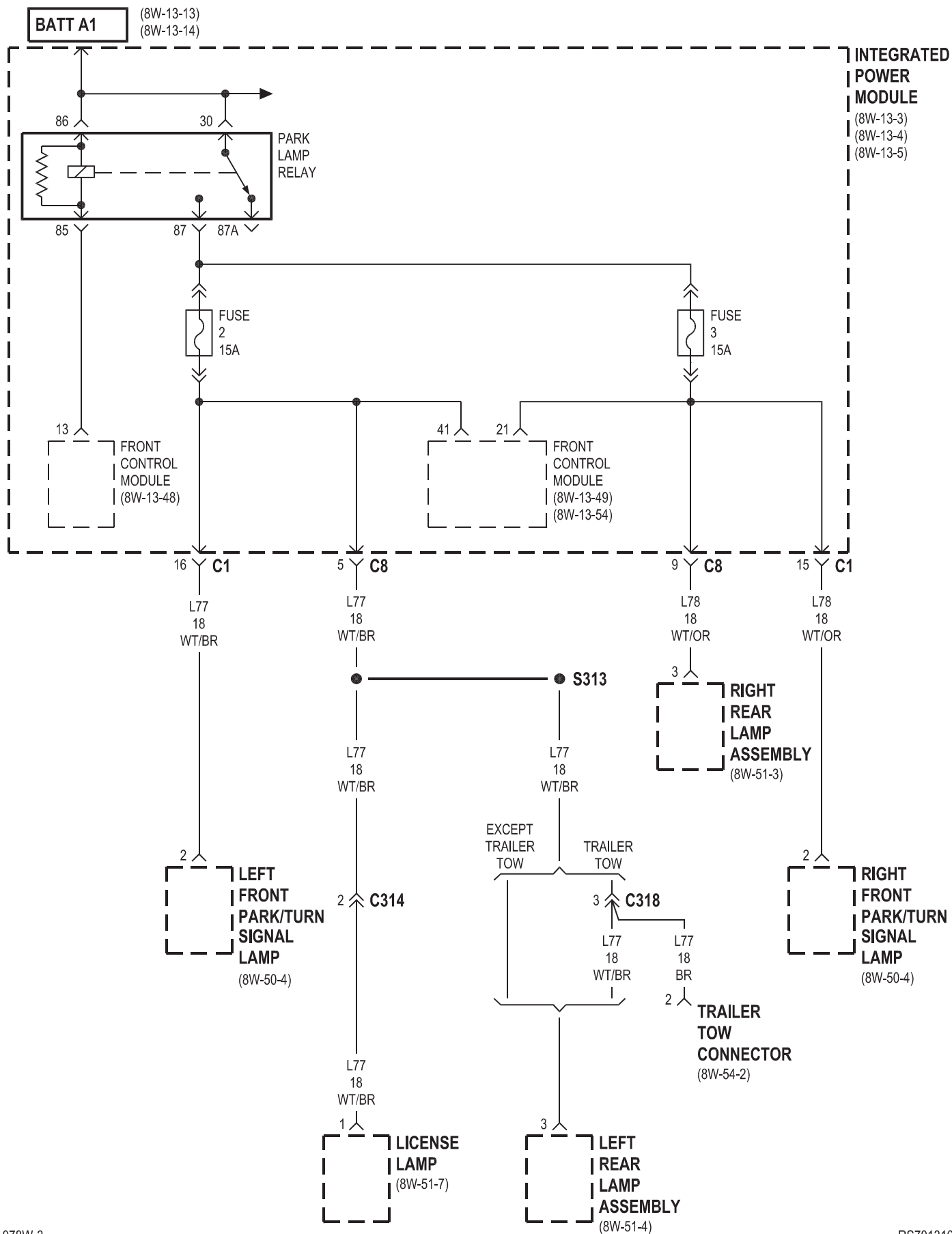
CAV	CIRCUIT	FUNCTION
1	A1	B(+)
2	A1	B(+)
3	L43	LEFT LOW BEAM DRIVER
4	L34	RIGHT HIGH BEAM DRIVER
5	L33	LEFT HIGH BEAM DRIVER
6	L44	RIGHT LOW BEAM DRIVER
7	-	-
8	INTERNAL	GROUND
9	A1	B(+)
10	FCM 10	HORN RELAY CONTROL
11	-	-
12	P201 ◆◆◆◆	ADJUSTABLE PEDALS RELAY CONTROL
13	FCM 13	PARK LAMP RELAY CONTROL
14	FCM 14	FRONT WIPER ON/OFF RELAY CONTROL
15	C41 ○○	CABIN HEATER ASSIST CONTROL
16	W7	WIPER PARK SWITCH SENSE
17	X3	HORN SWITCH SENSE
18	W1	WASHER FLUID LEVEL SWITCH SENSE
19	FCM 19	FUSED IGNITION SWITCH OUTPUT (START)
20	-	-
21	L78	FUSED PARK LAMP RELAY OUTPUT (RIGHT)
22	D25	PCI BUS
23	G931 ○○	AMBIENT TEMPERATURE SENSOR RETURN
24	-	-
25	G31 ○○	AMBIENT TEMPERATURE SENSOR SIGNAL
26	L13 ▲▲	HEADLAMP ADJUST SIGNAL
27	F1, F2	FCM OUTPUT (UNLOCK-RUN-START)
28	-	-
29	F100	ORC RUN ONLY DRIVER
30	FCM 30	FRONT/REAR BLOWER MOTOR RELAY CONTROL
31	FCM 31	DEFOGGER RELAY CONTROL
32	FCM 32 ▲▲	HEADLAMP WASHER RELAY CONTROL
33	FCM 33	FRONT FOG LAMP RELAY CONTROL
34	FCM 34	FRONT WIPER HIGH/LOW RELAY CONTROL
35	FCM 35	ACCESSORY RELAY CONTROL (RUN-ACC)
36	B20	BRAKE FLUID LEVEL SWITCH SENSE
37	F20	FUSED IGNITION SWITCH OUTPUT (RUN-START)
38	A1	B(+) (WHEN IPM C5 CPA IS NOT ENGAGED)
39	T2 ■	TRS REVERSE SENSE
40	-	-
41	L77	FUSED PARK LAMP RELAY OUTPUT (LEFT)
42	D123	FLASH PROGRAM ENABLE
43	Z116	GROUND
44	L50 ○○	PRIMARY BRAKE SWITCH SIGNAL
44	L50 ○	BRAKE LAMP SWITCH OUTPUT
45	W10	FRONT WASHER PUMP MOTOR CONTROL
46	W20	REAR WASHER PUMP MOTOR CONTROL
47	K32	BRAKE TRANSMISSION SHIFT INTERLOCK SOLENOID CONTROL
48	F201	ORC RUN-START DRIVER
49	-	-

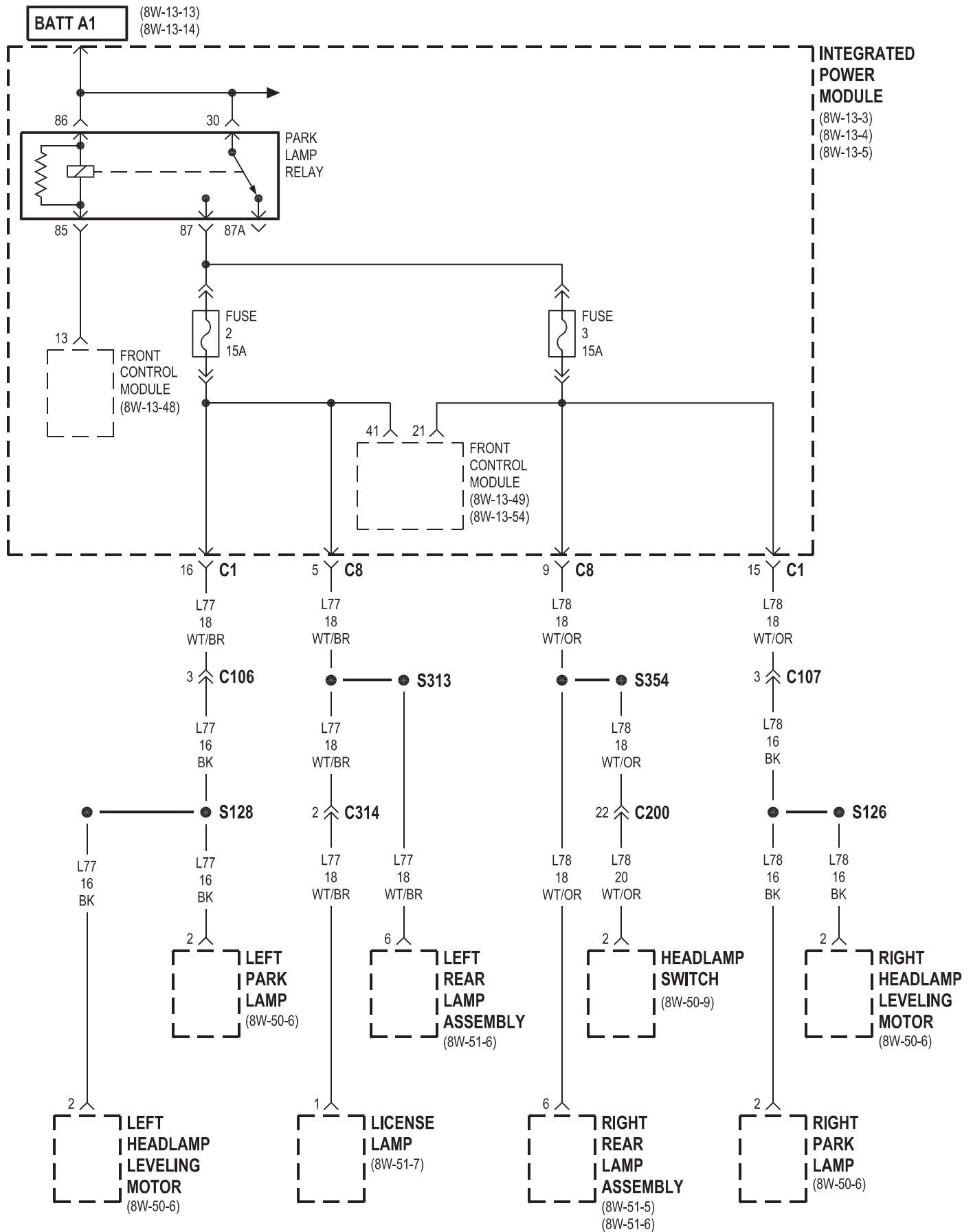
■ MTX
 ○ GAS
 ○○ DIESEL
 ▲▲ EXPORT
 ◆◆◆◆ EXCEPT EXPORT EXCEPT MEMORY

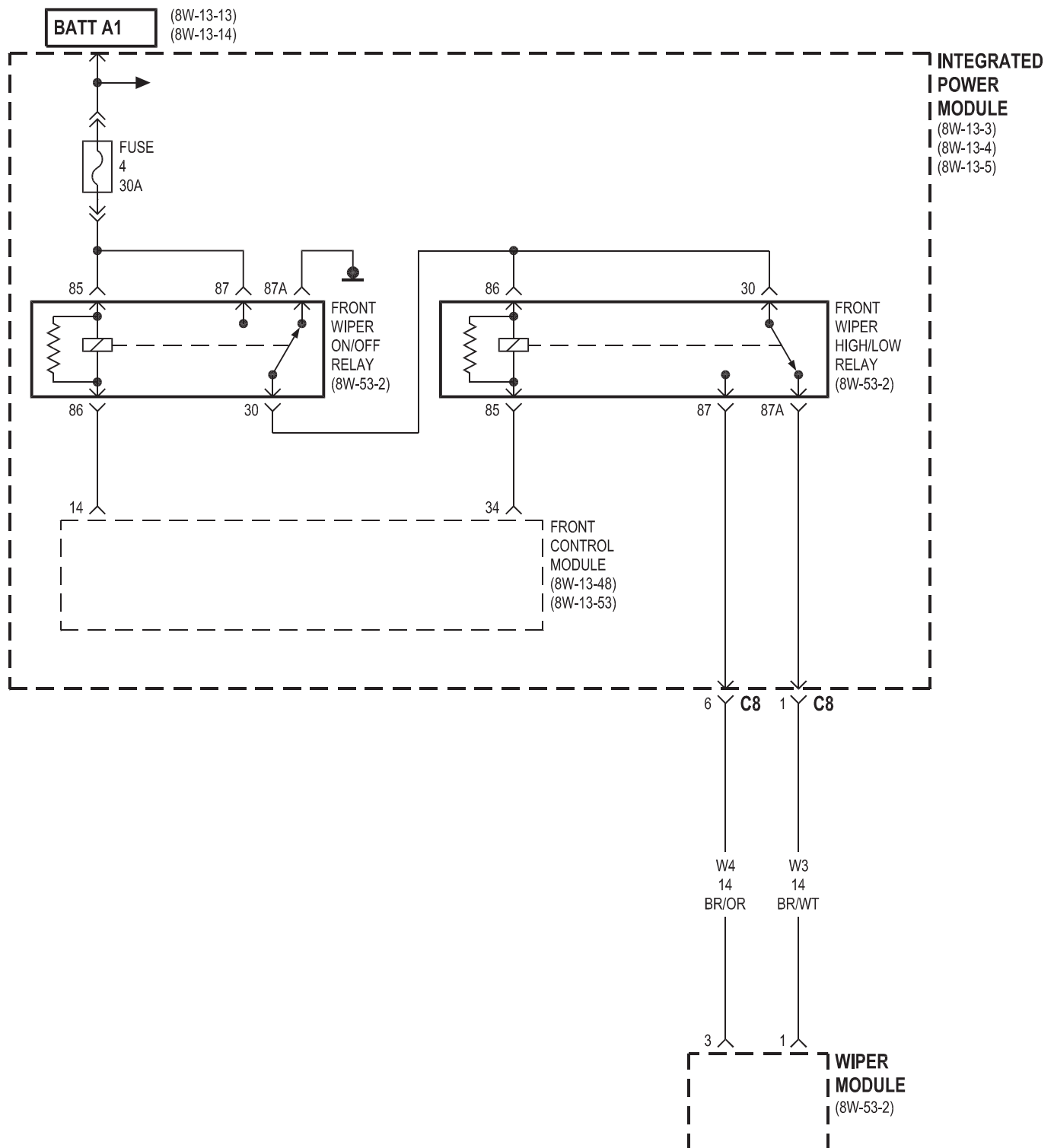


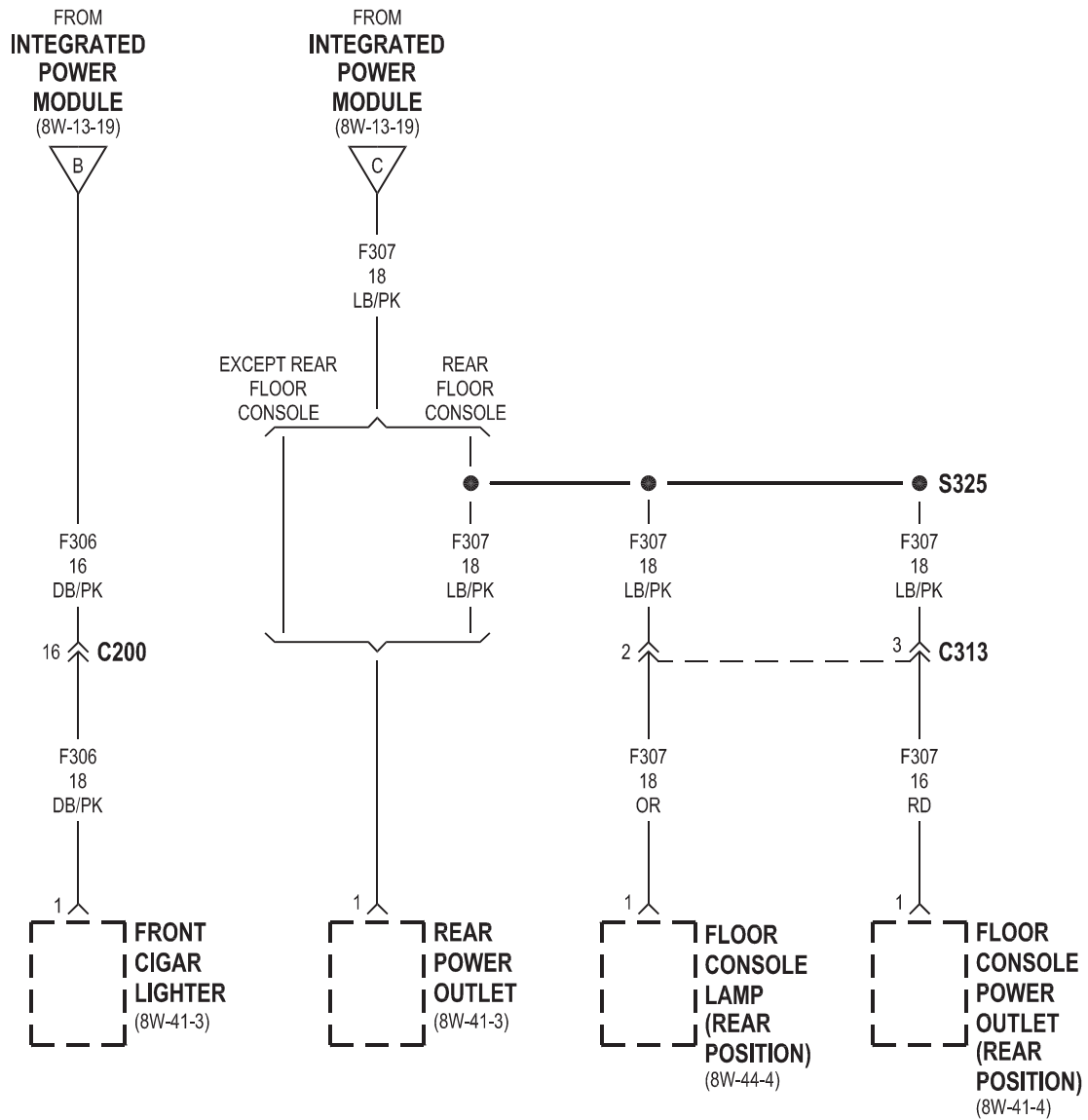


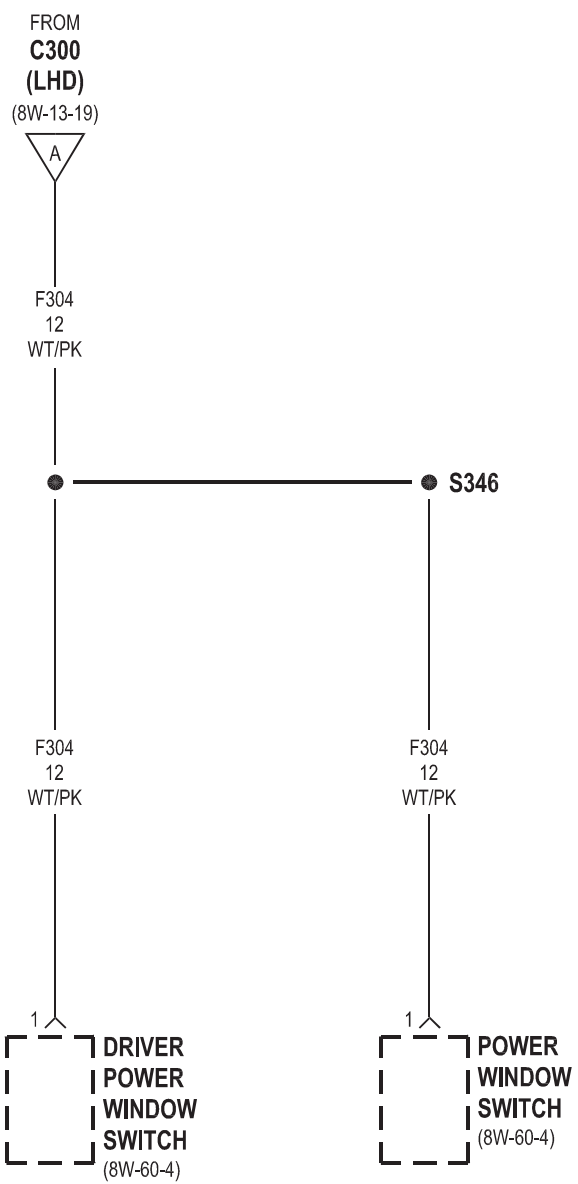


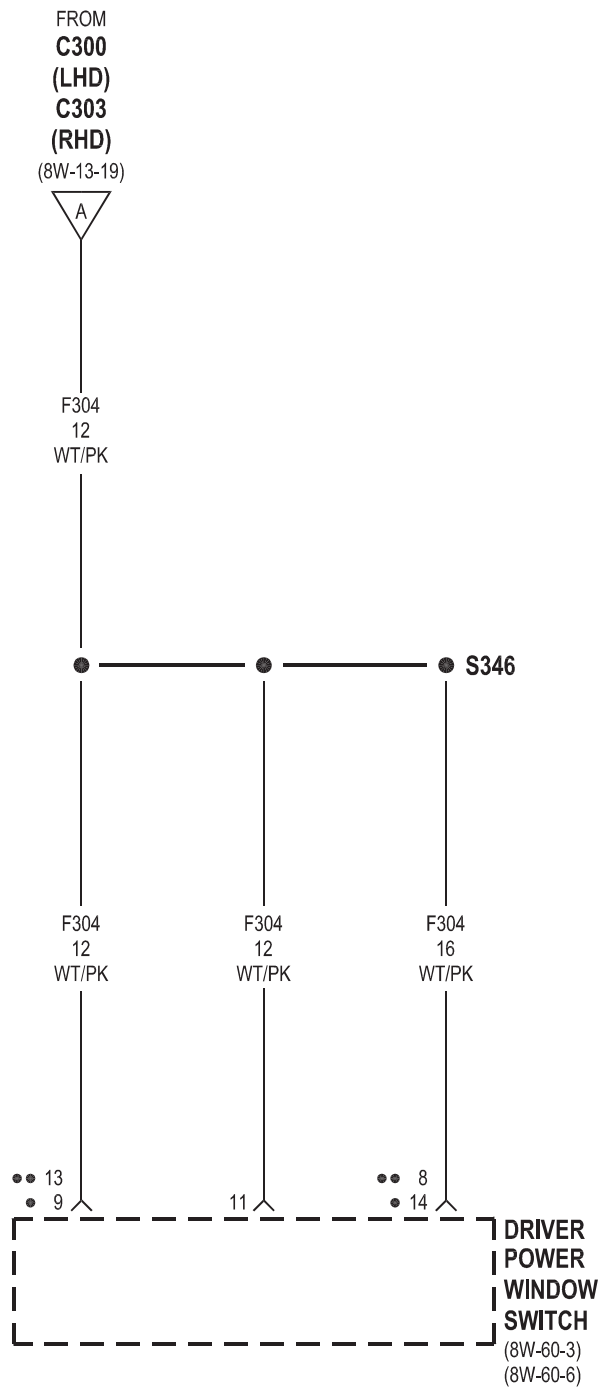




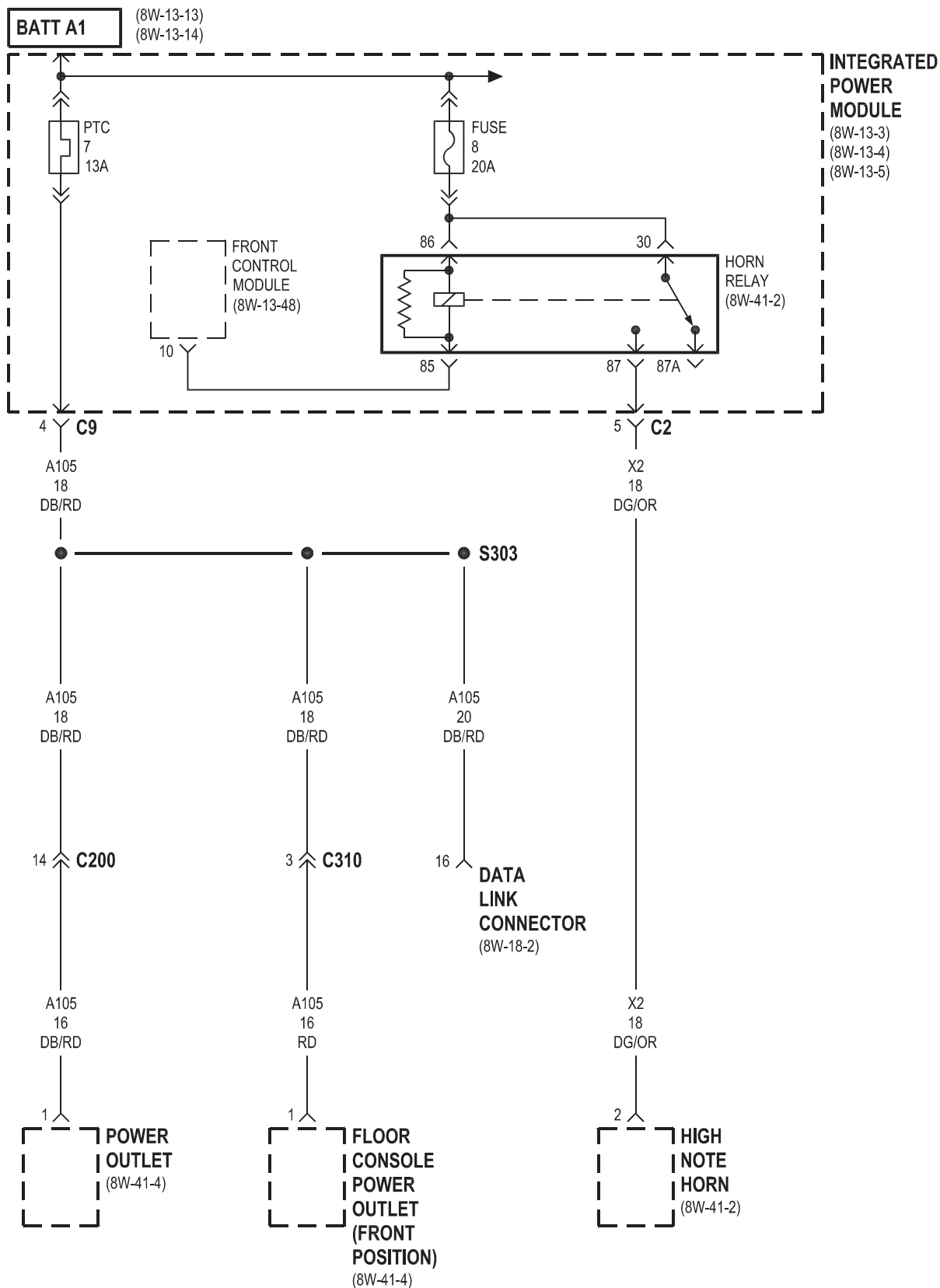




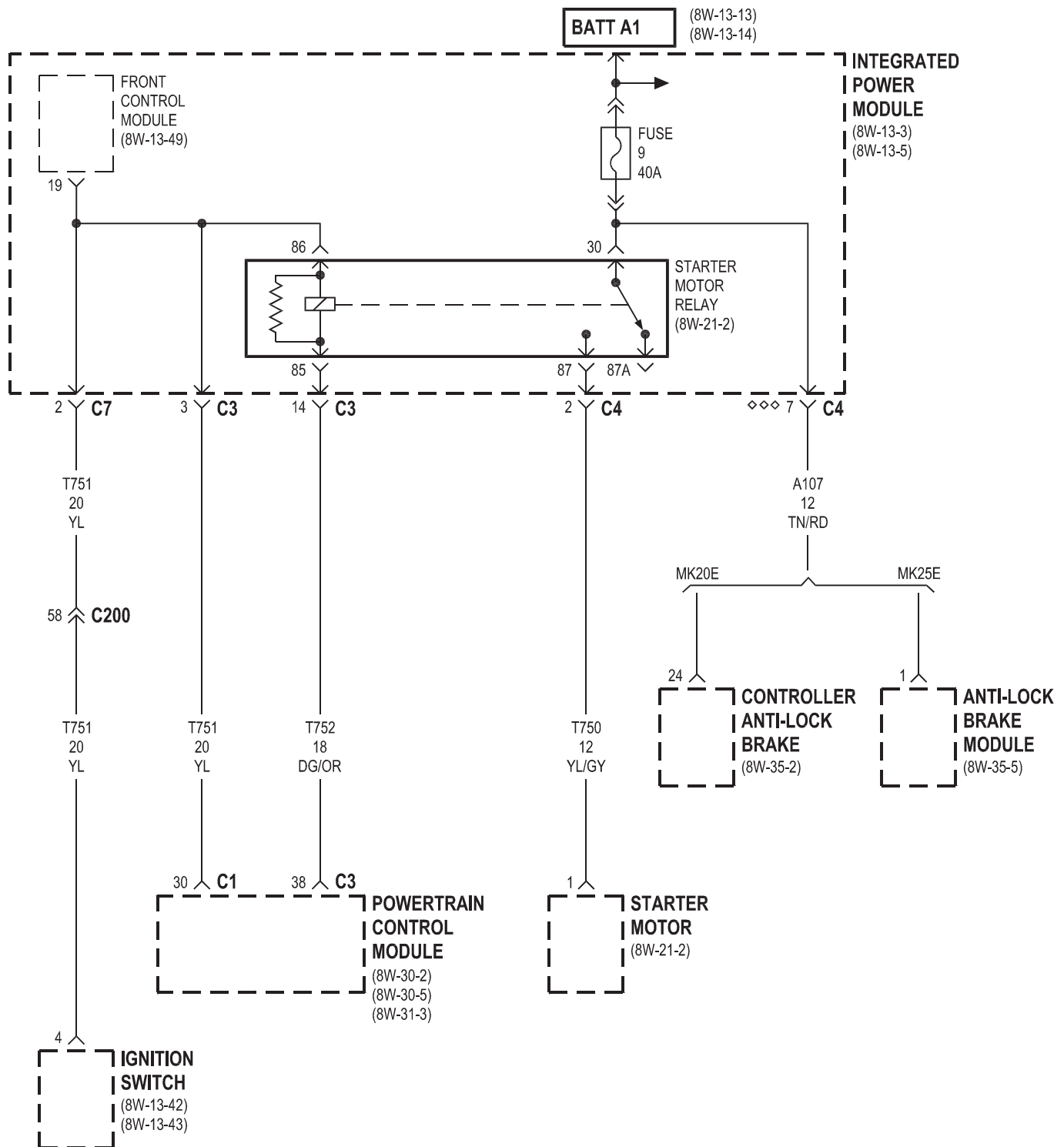


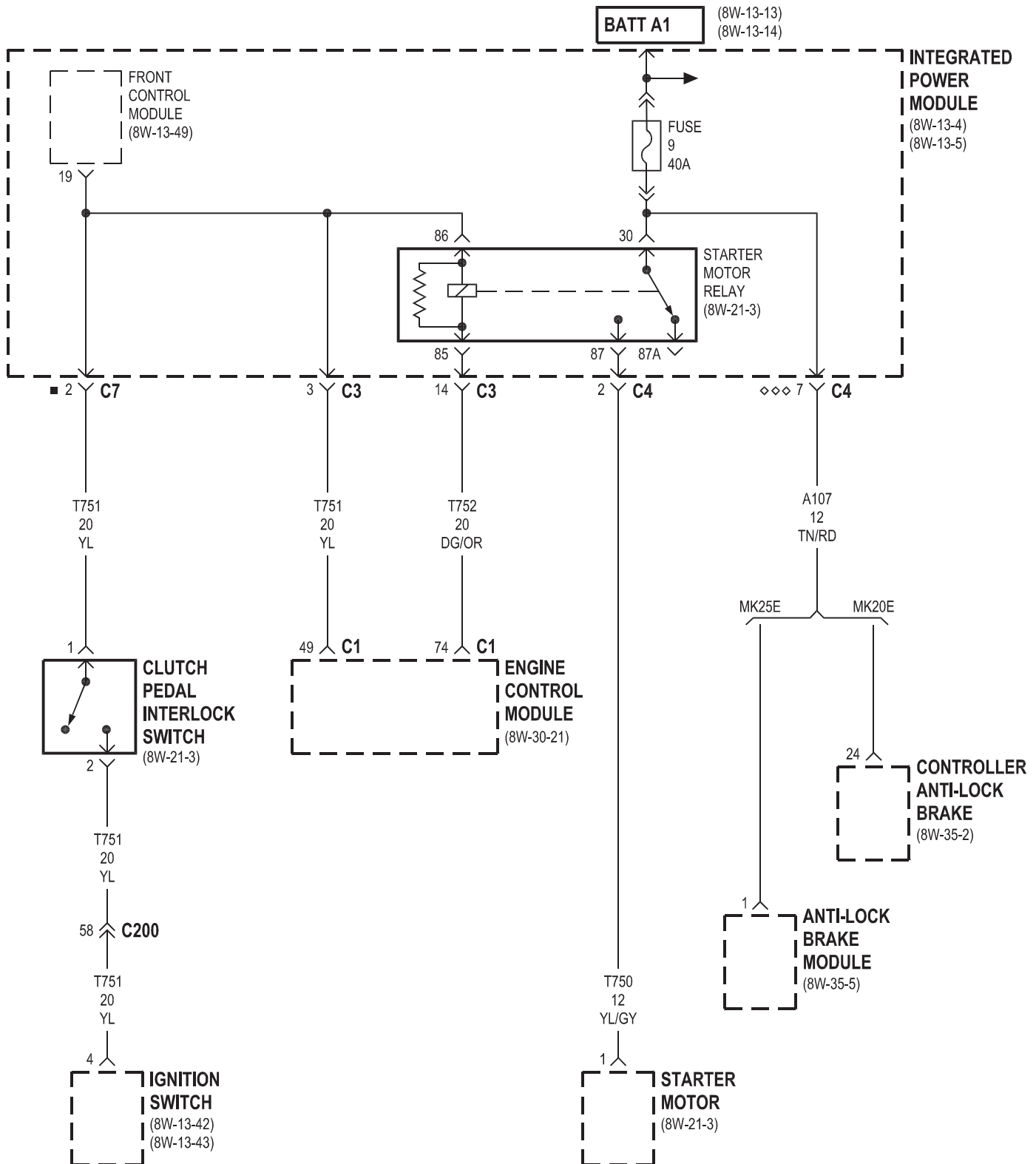


• LHD
•• RHD

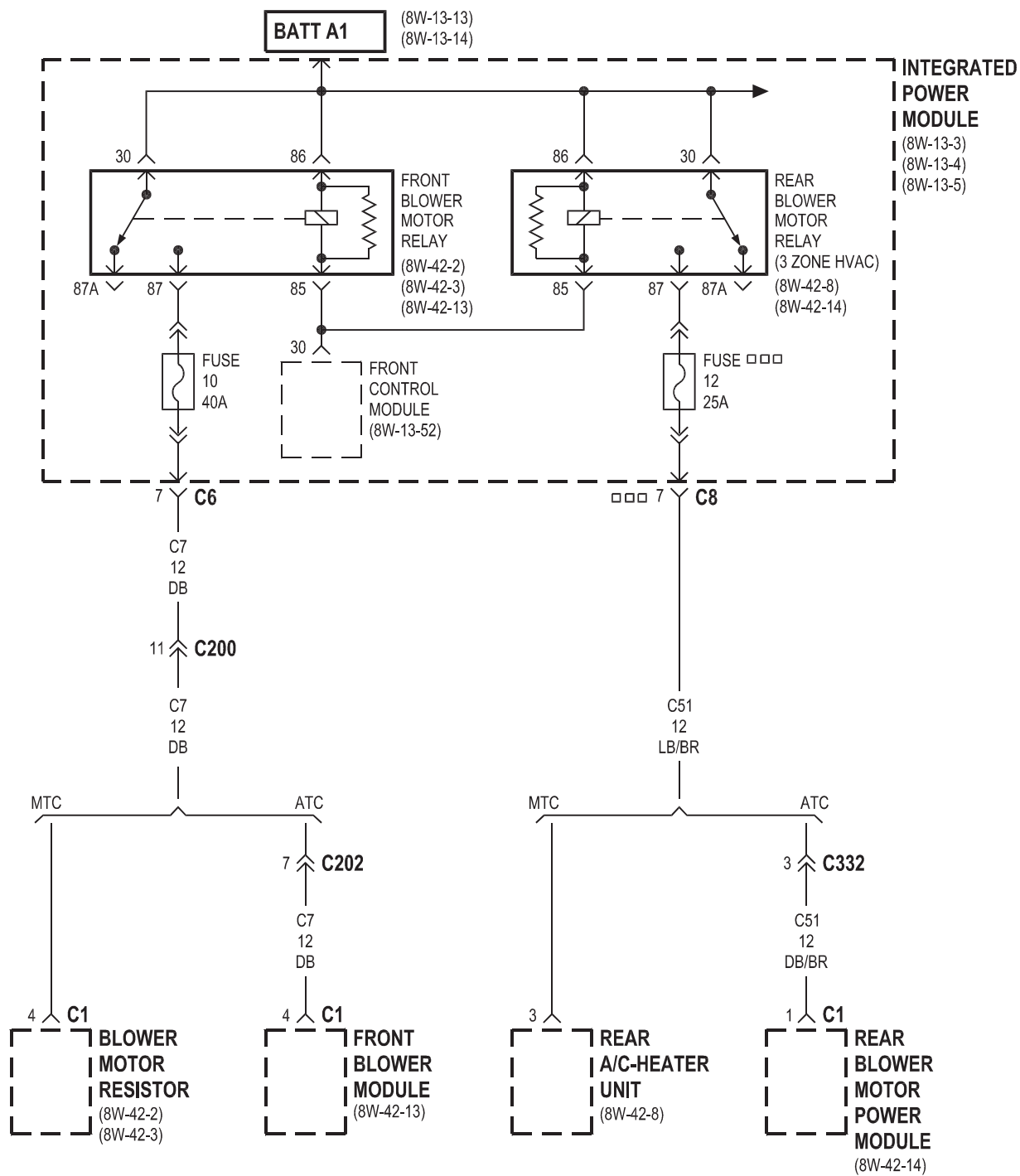


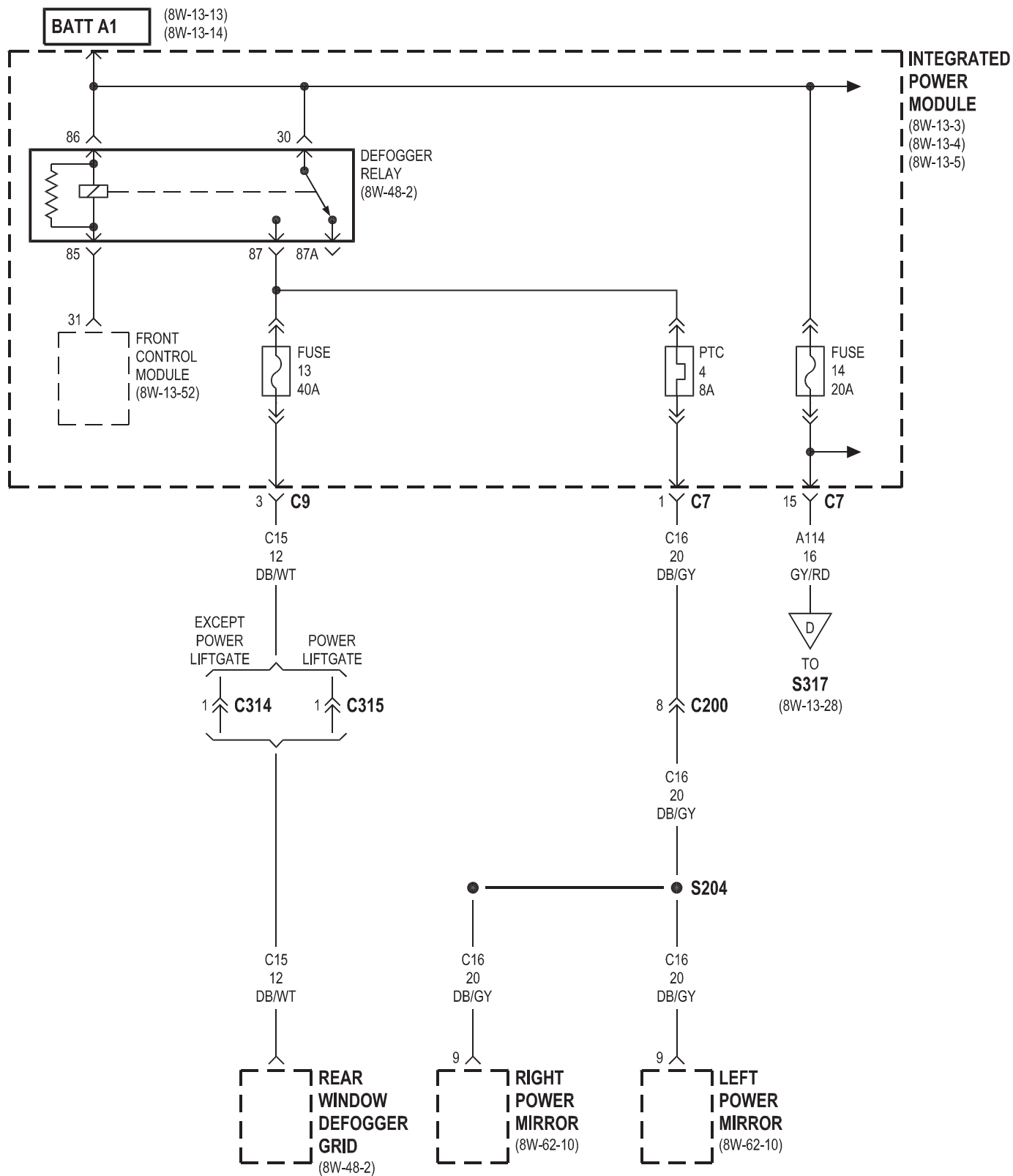
GAS

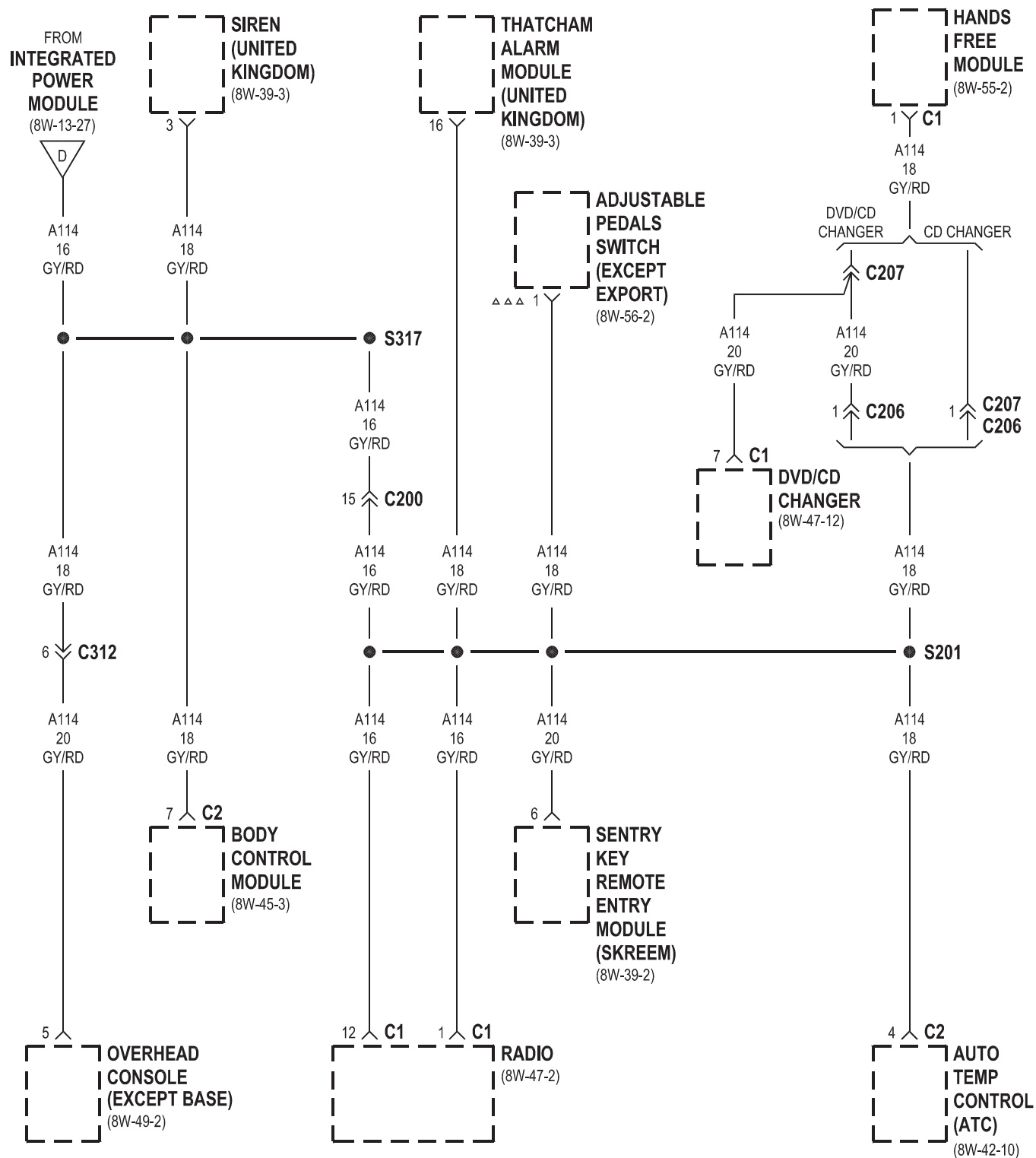


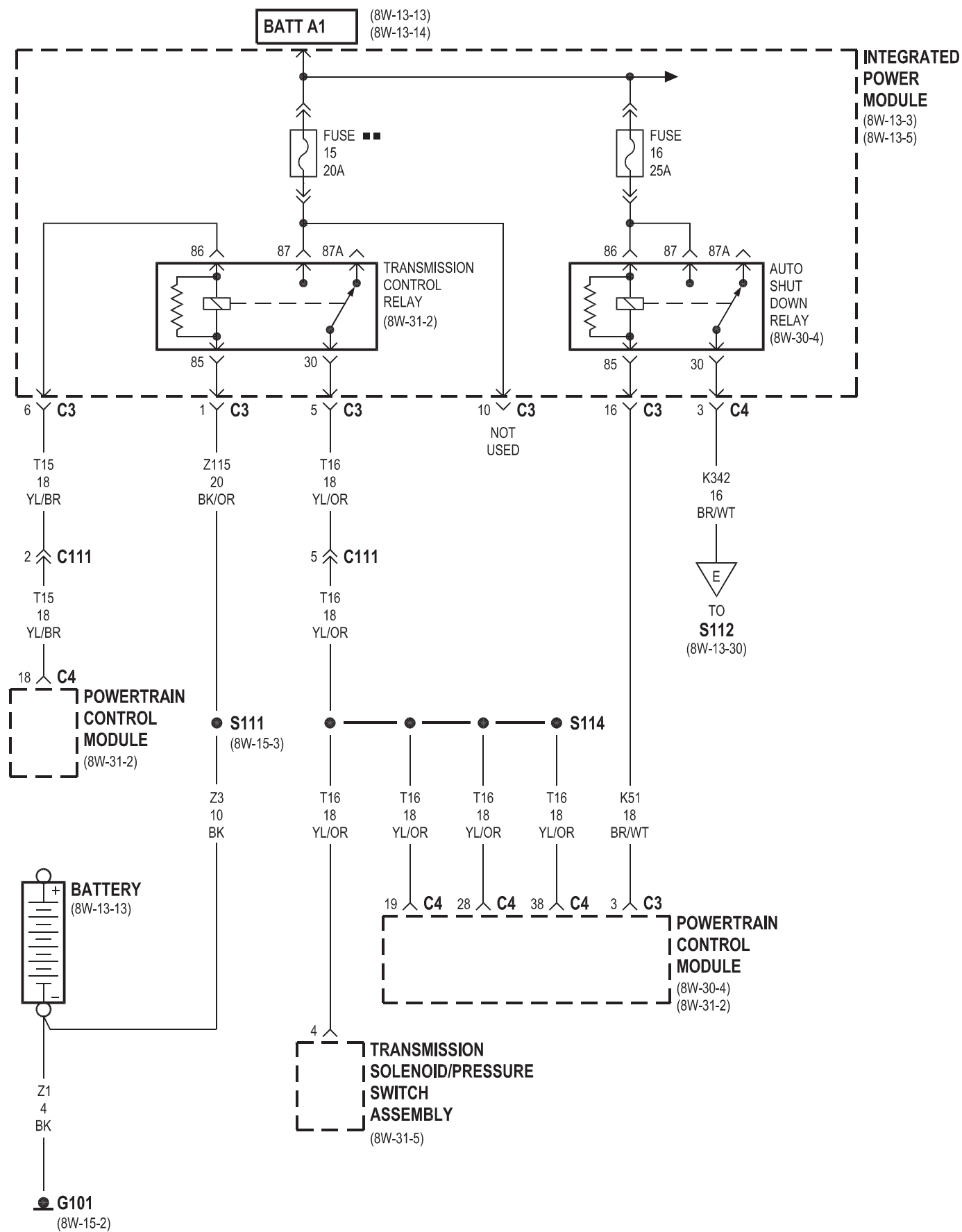


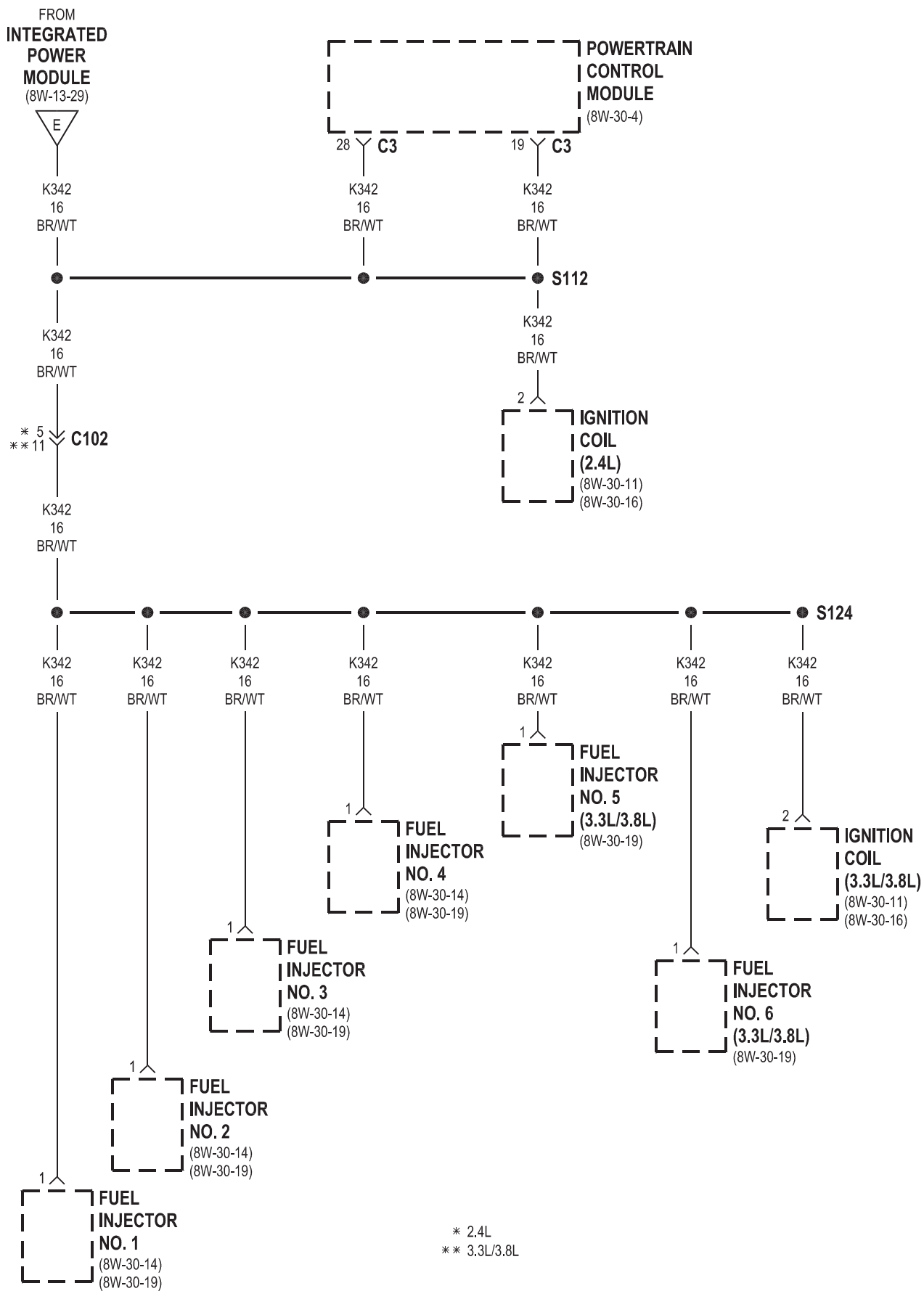
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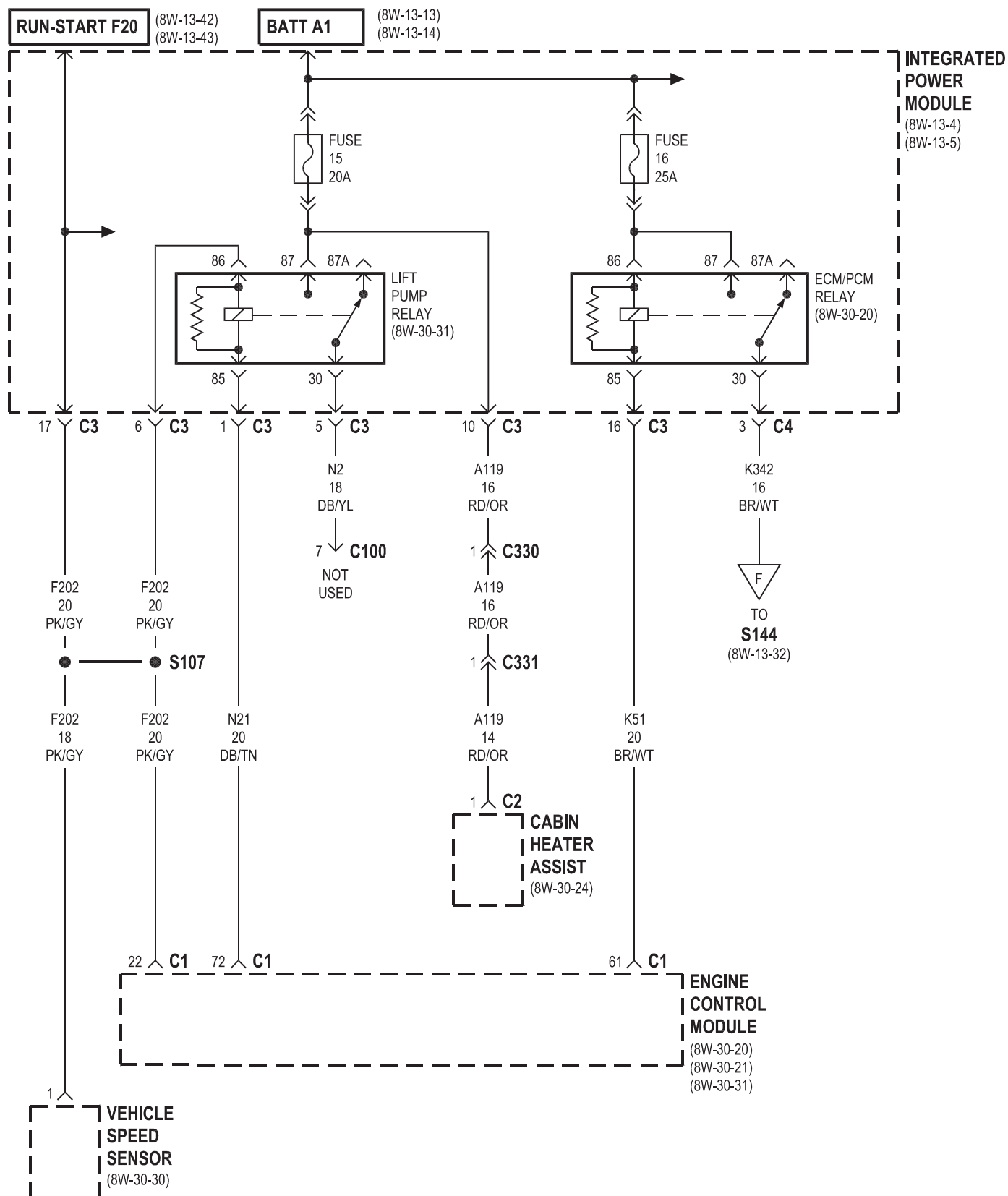


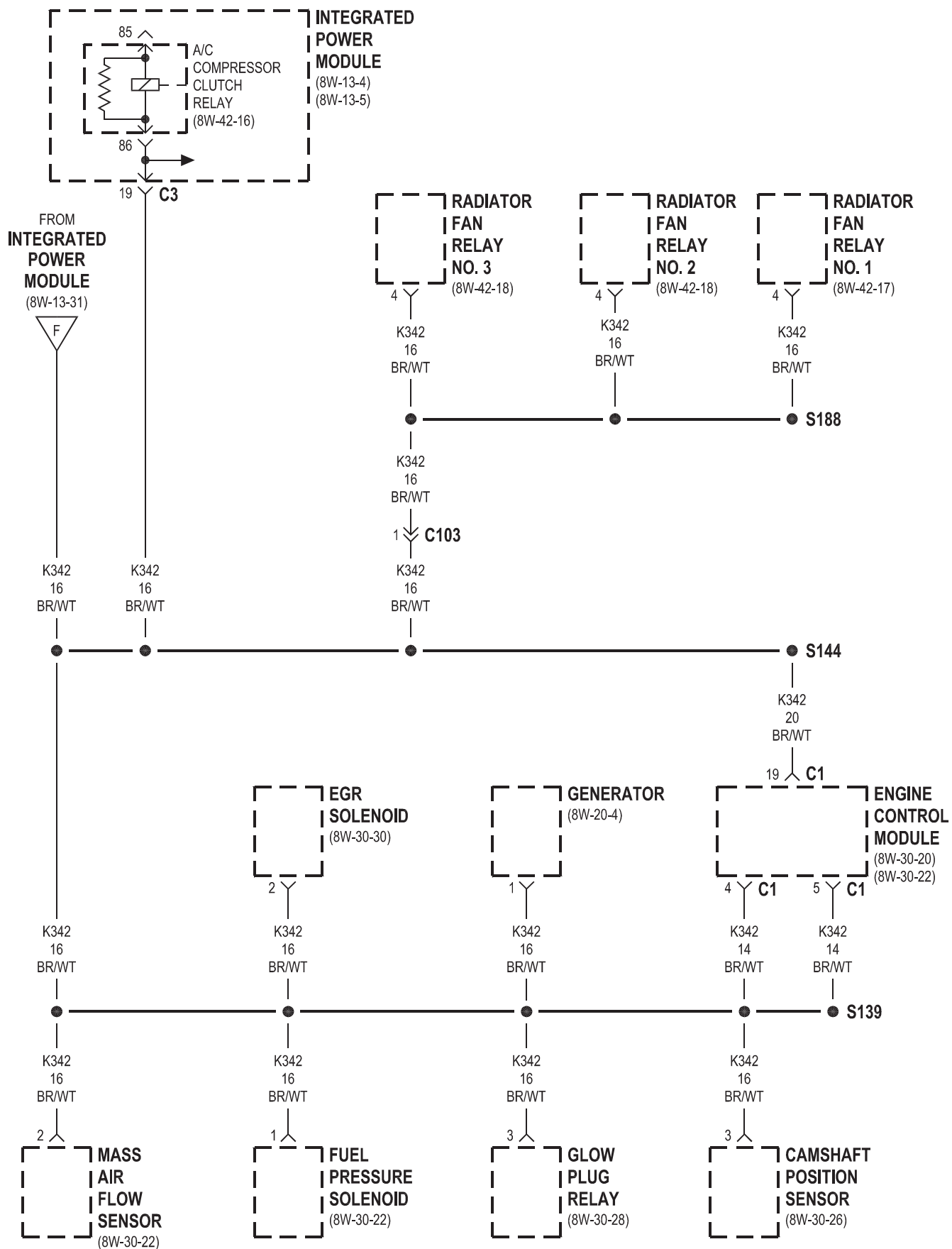


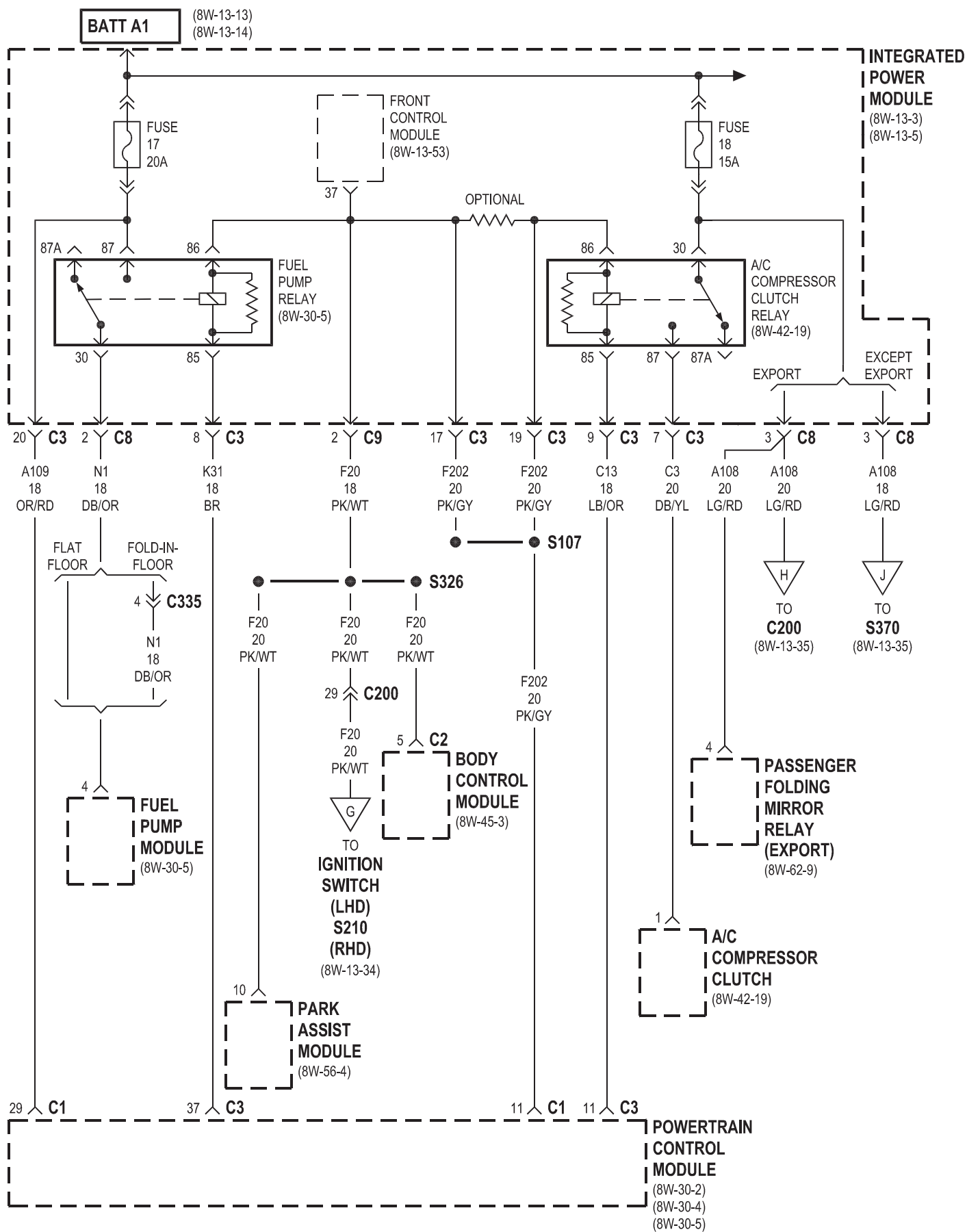


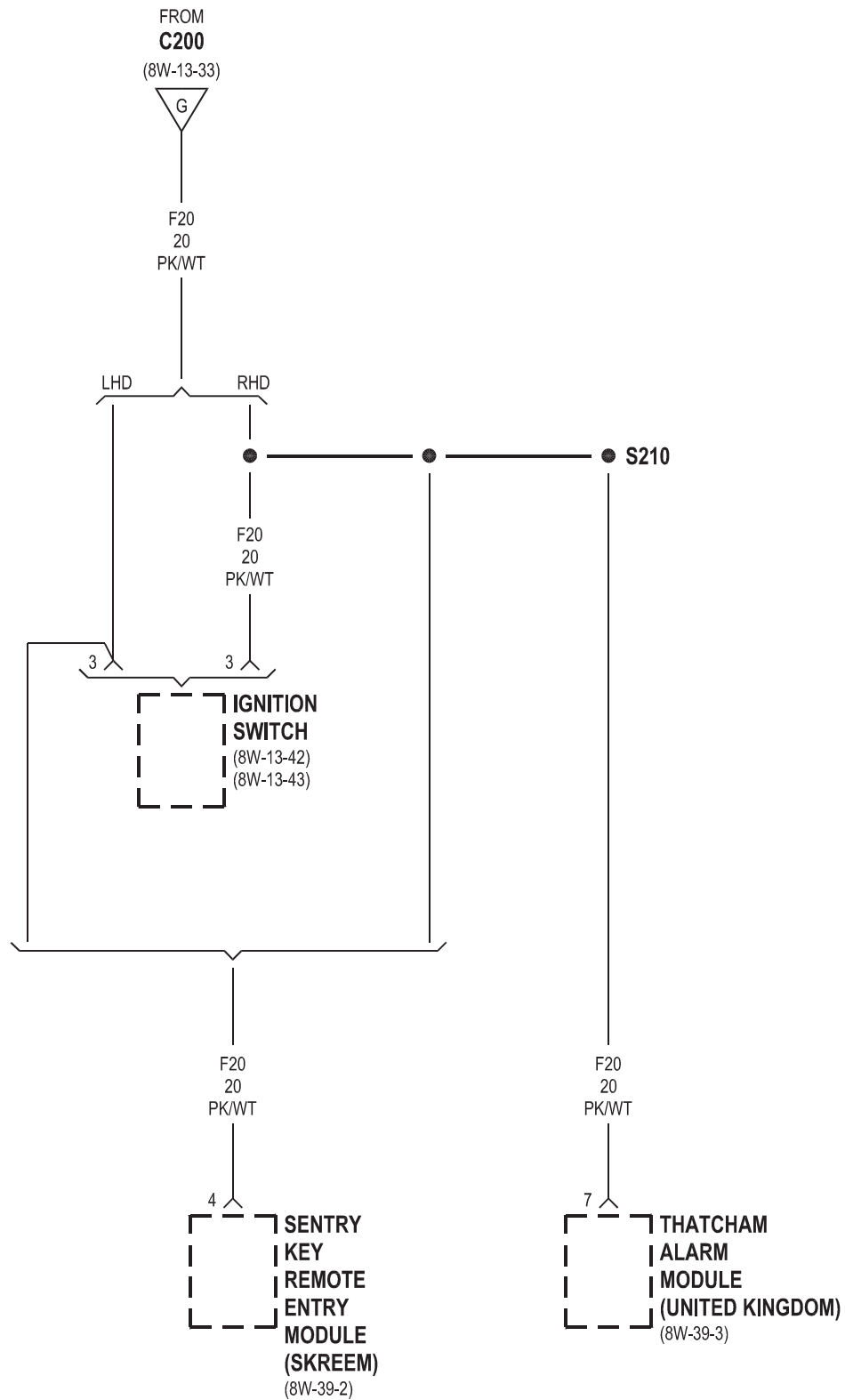


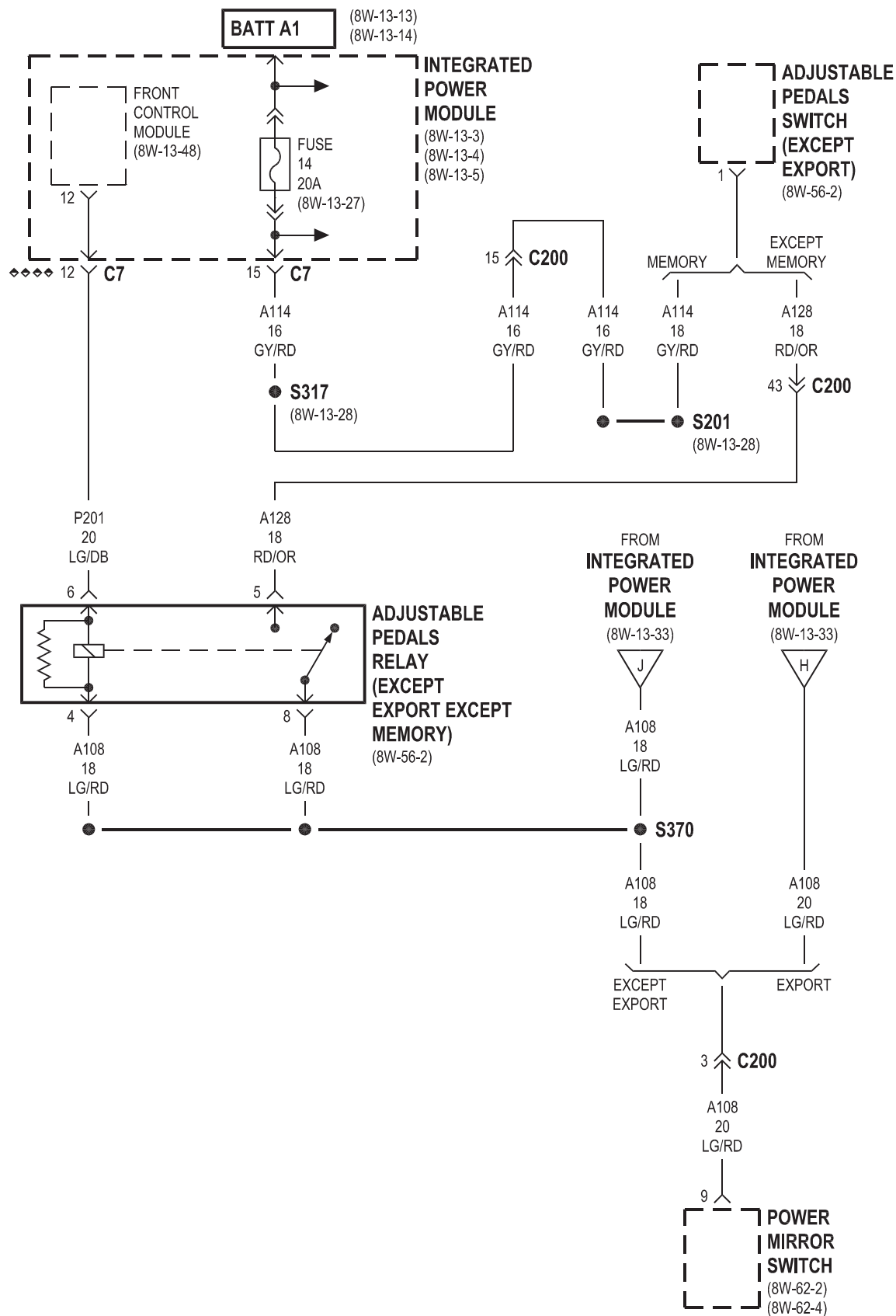


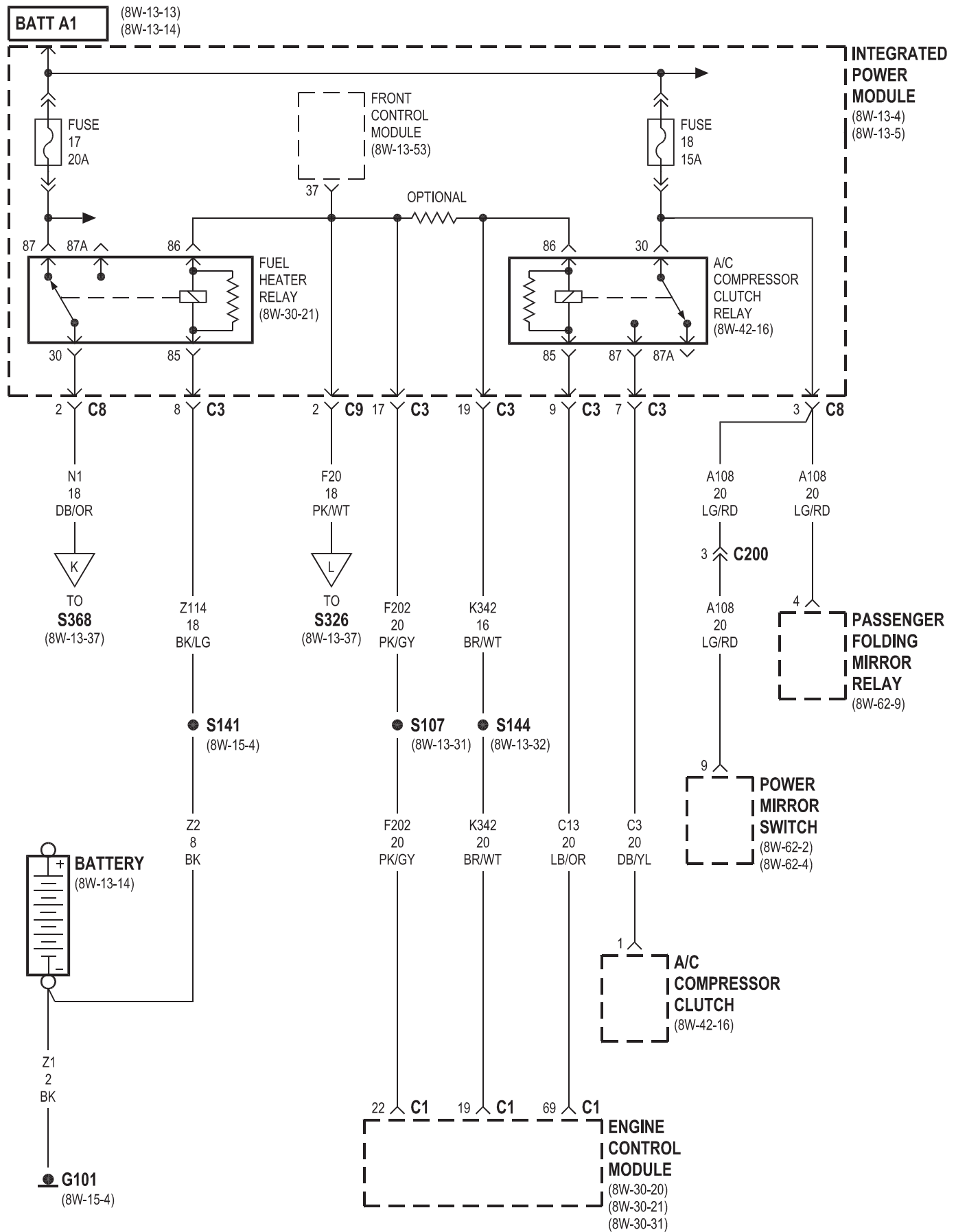


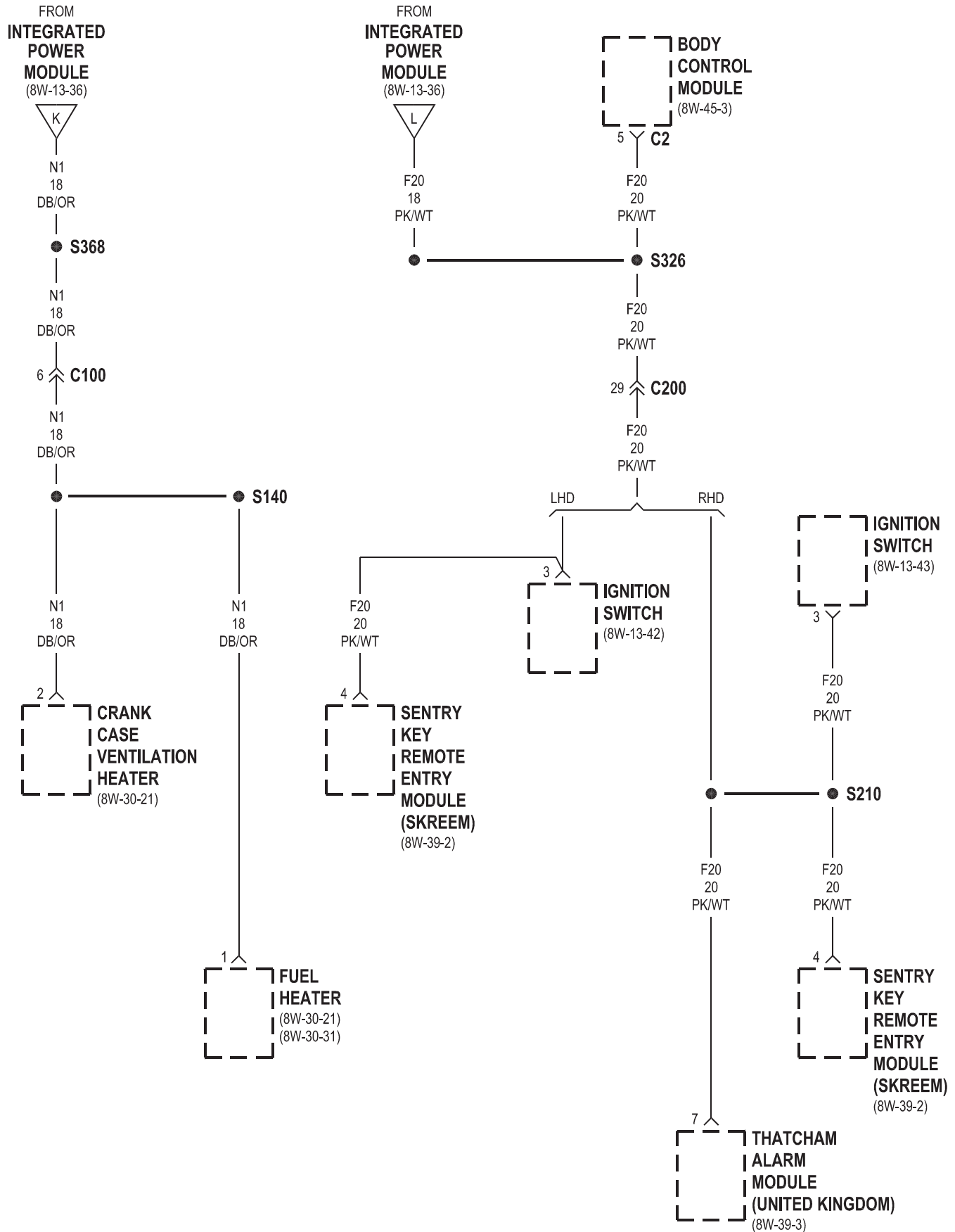


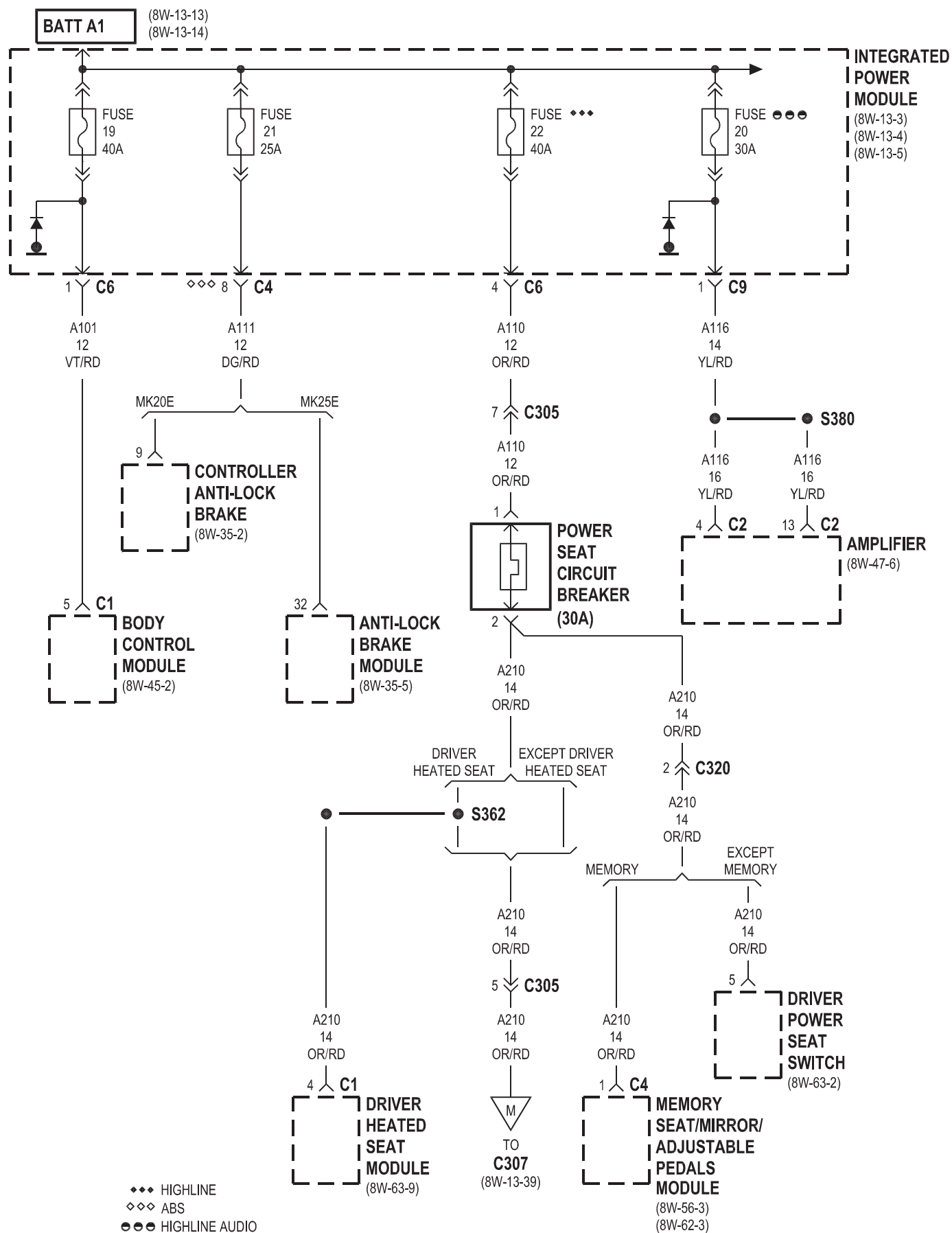


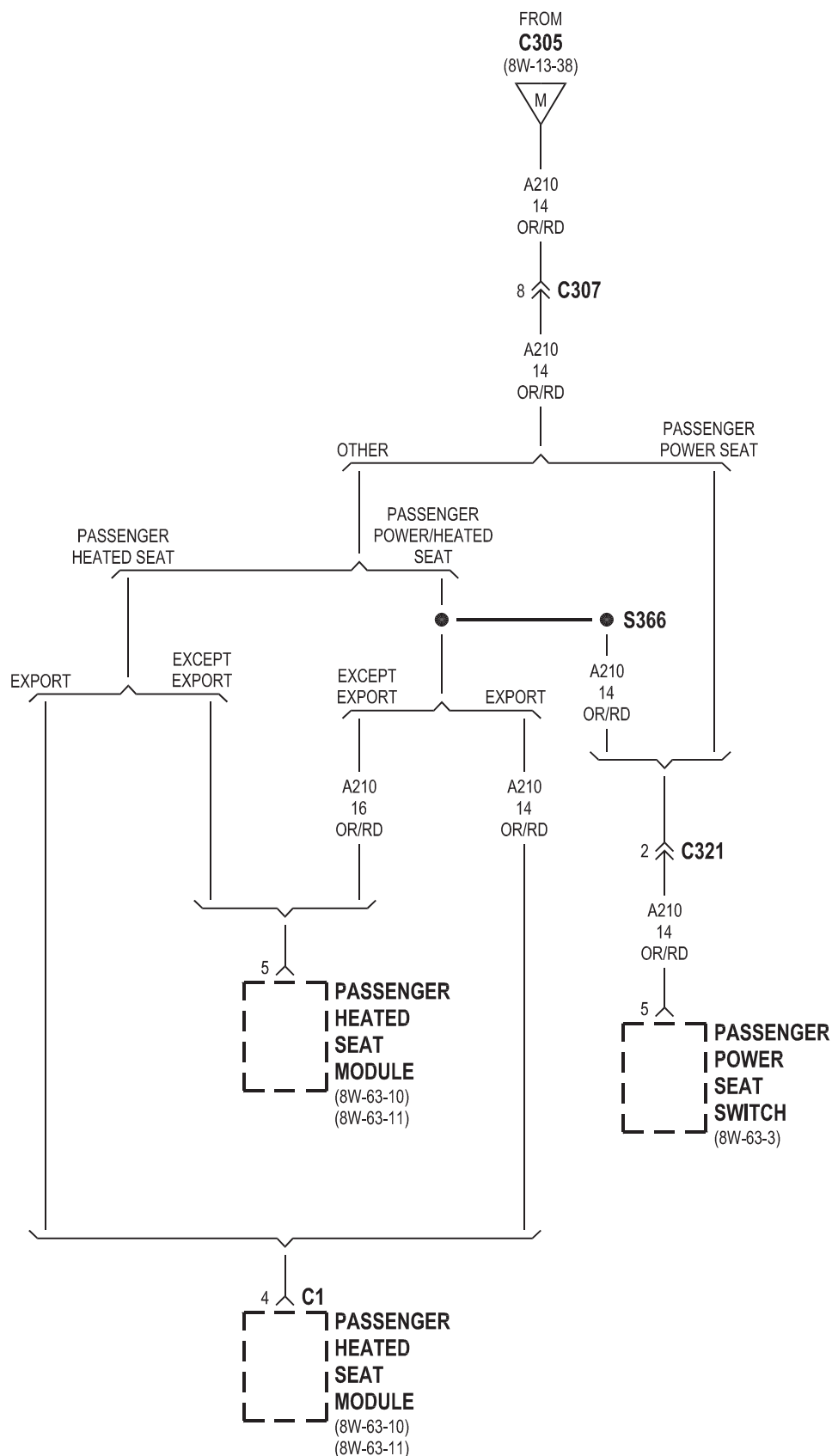


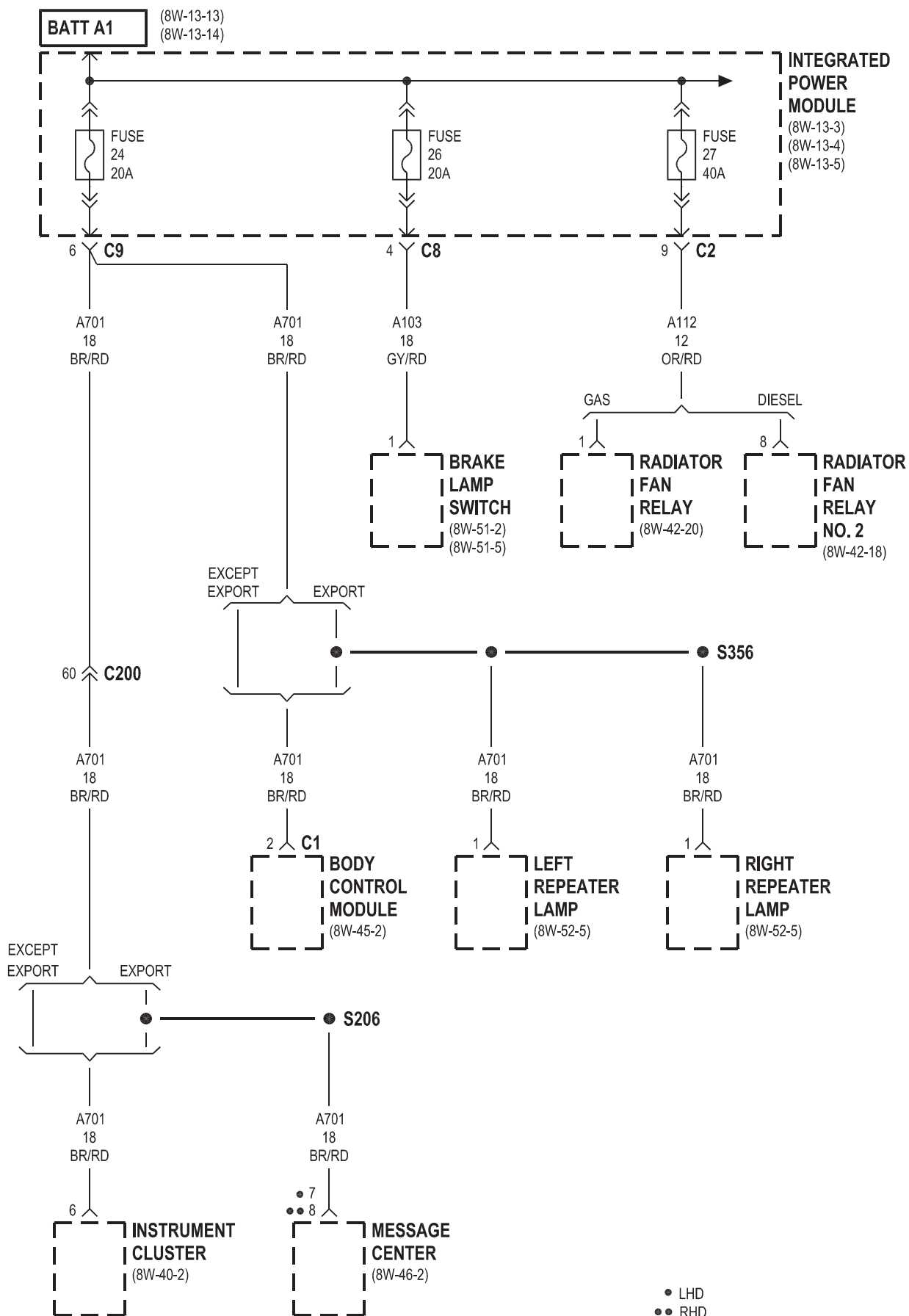


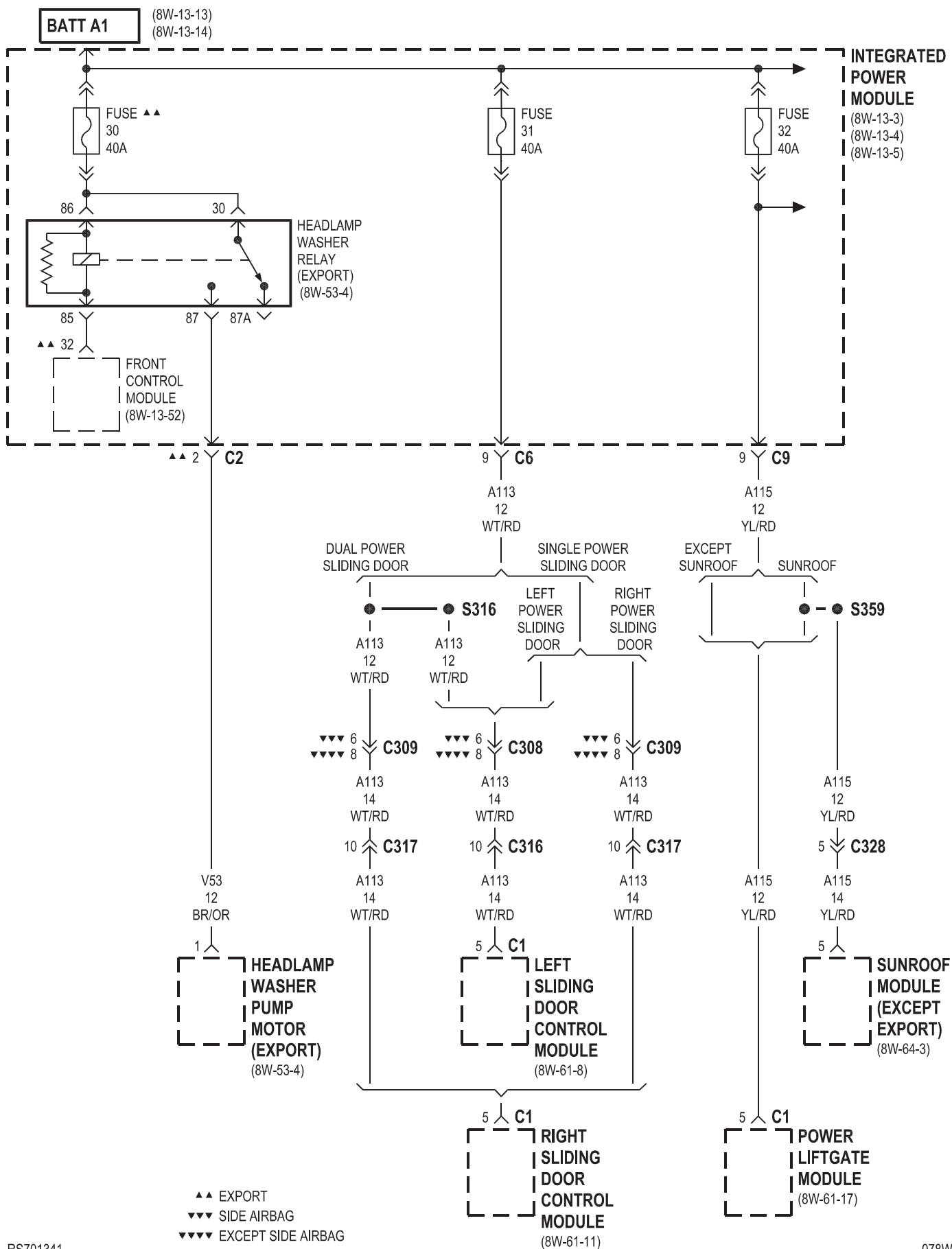




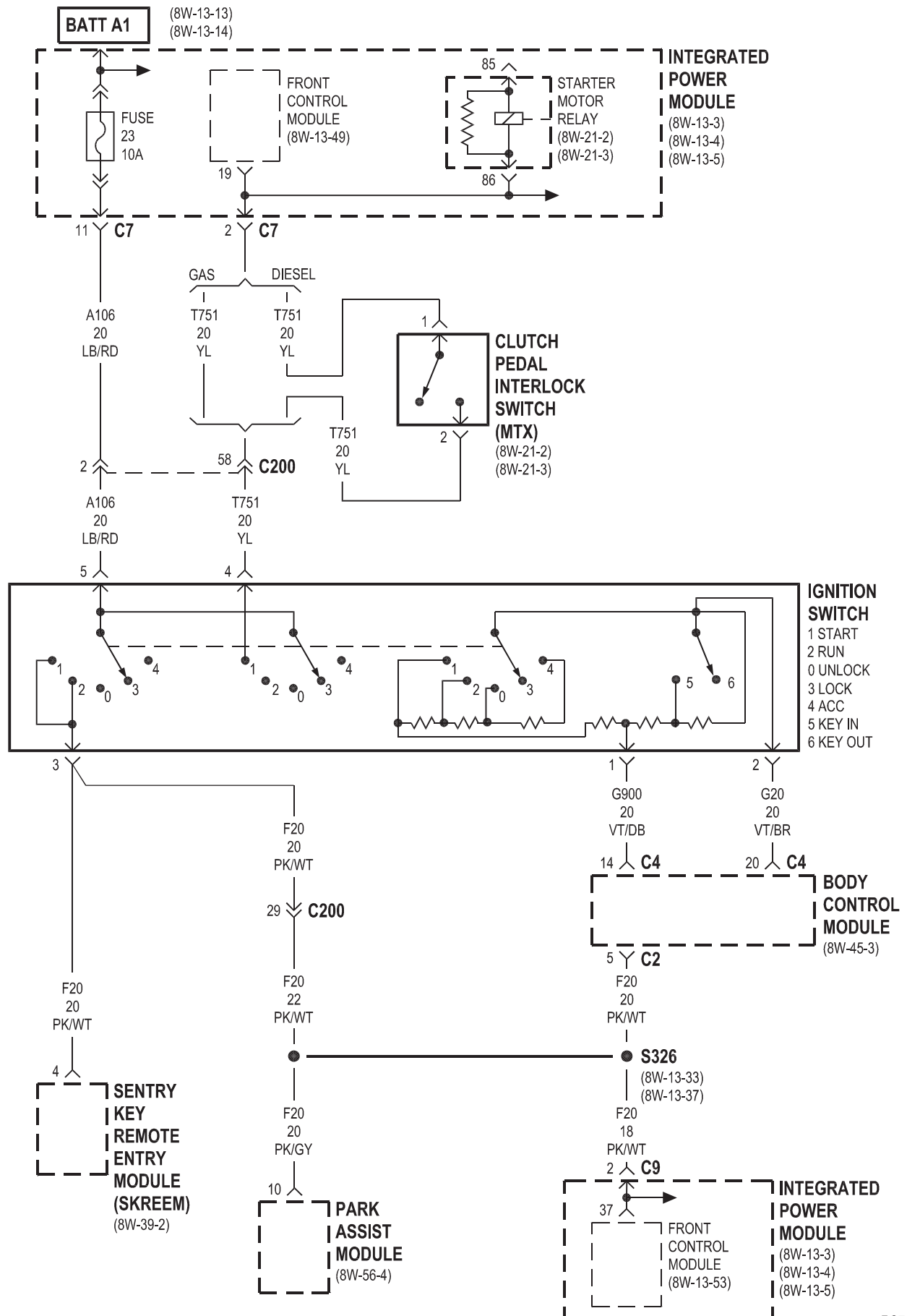


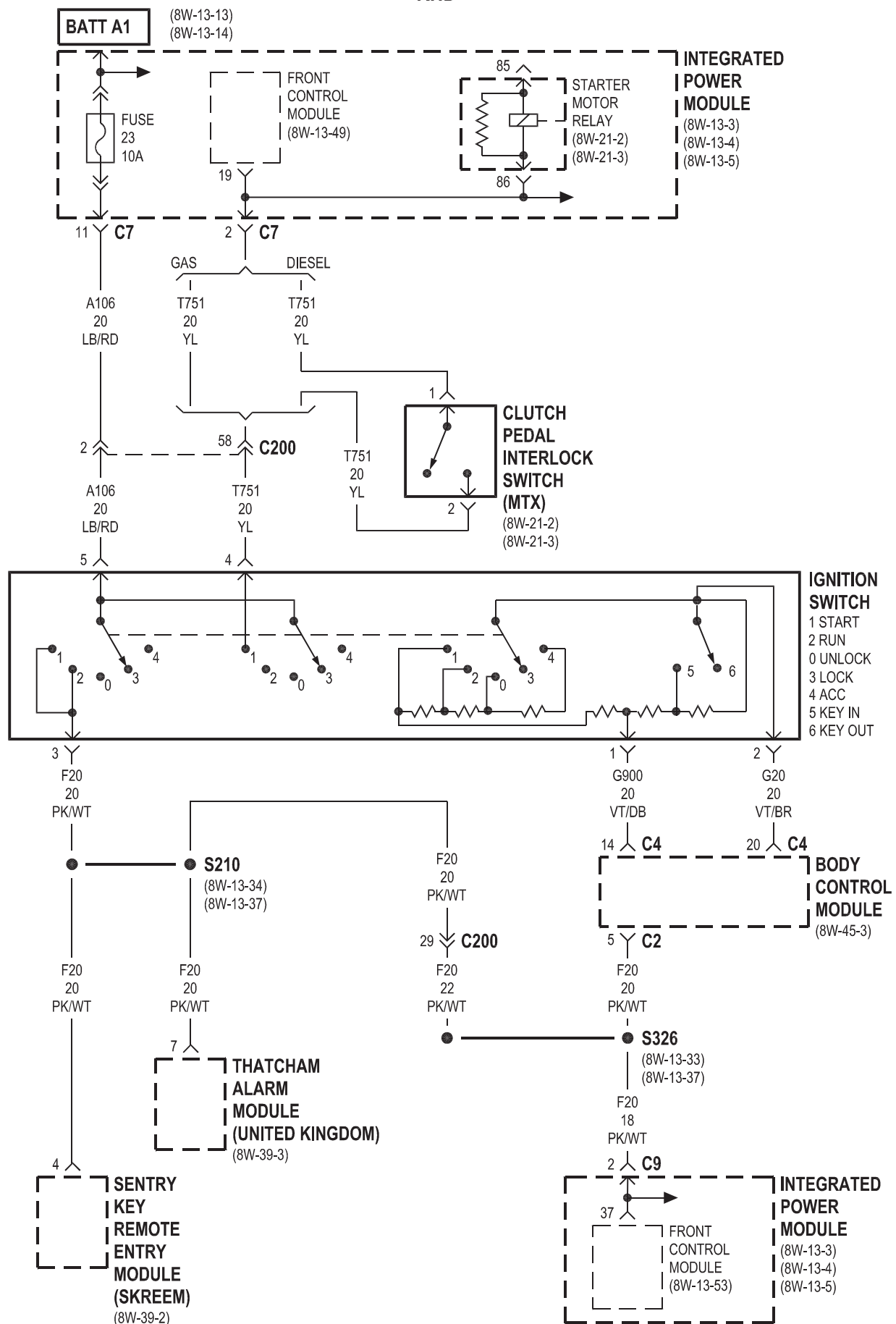


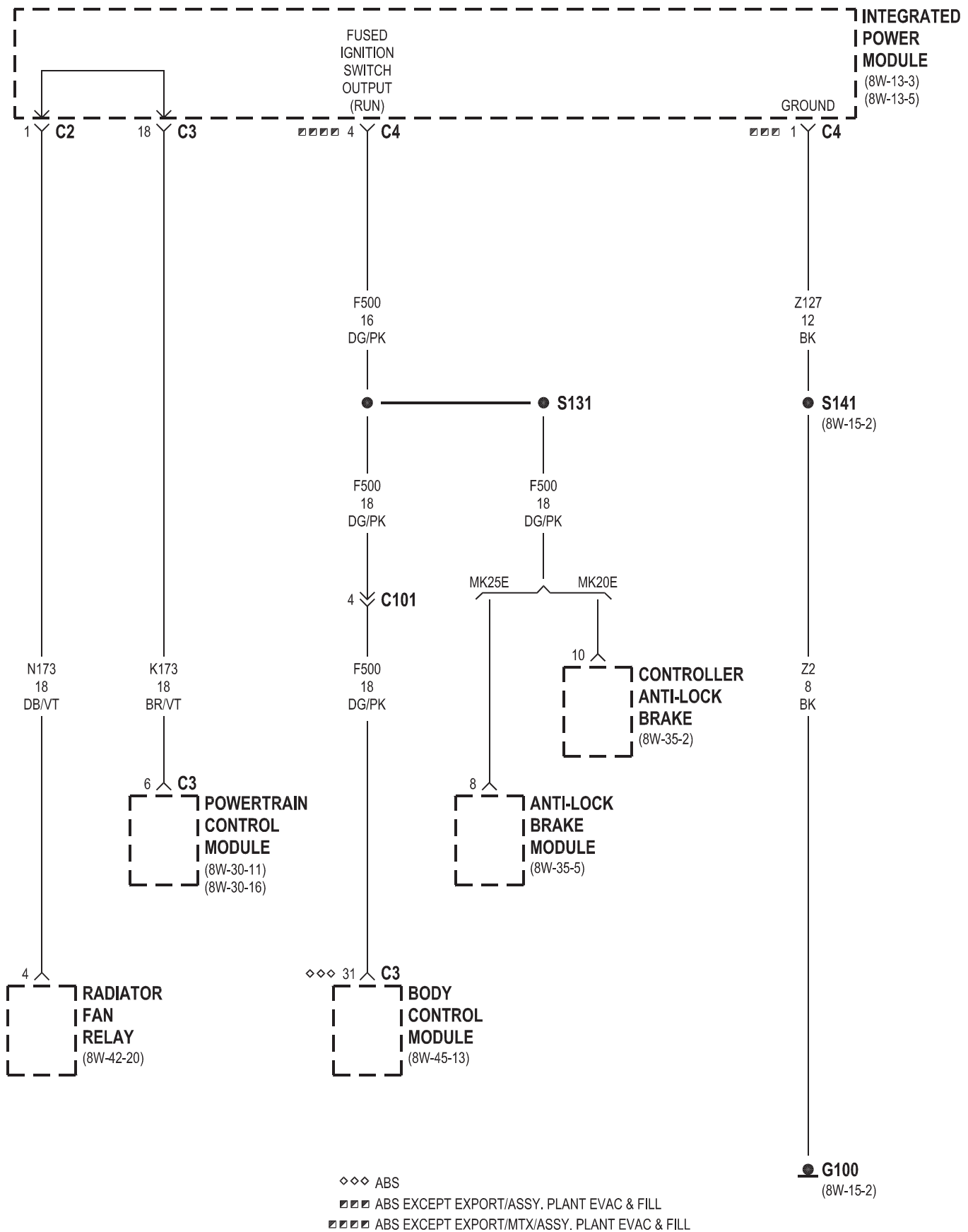


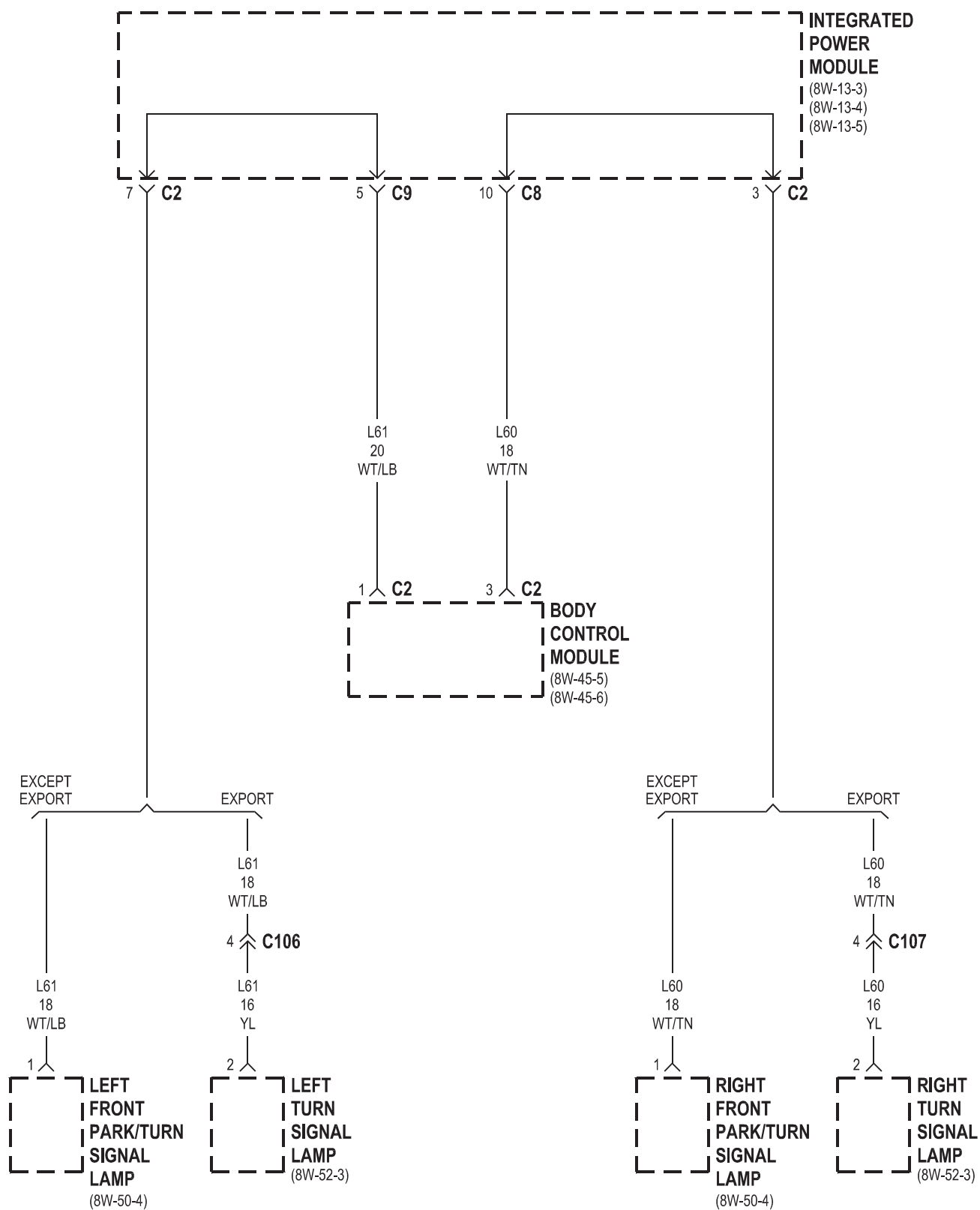


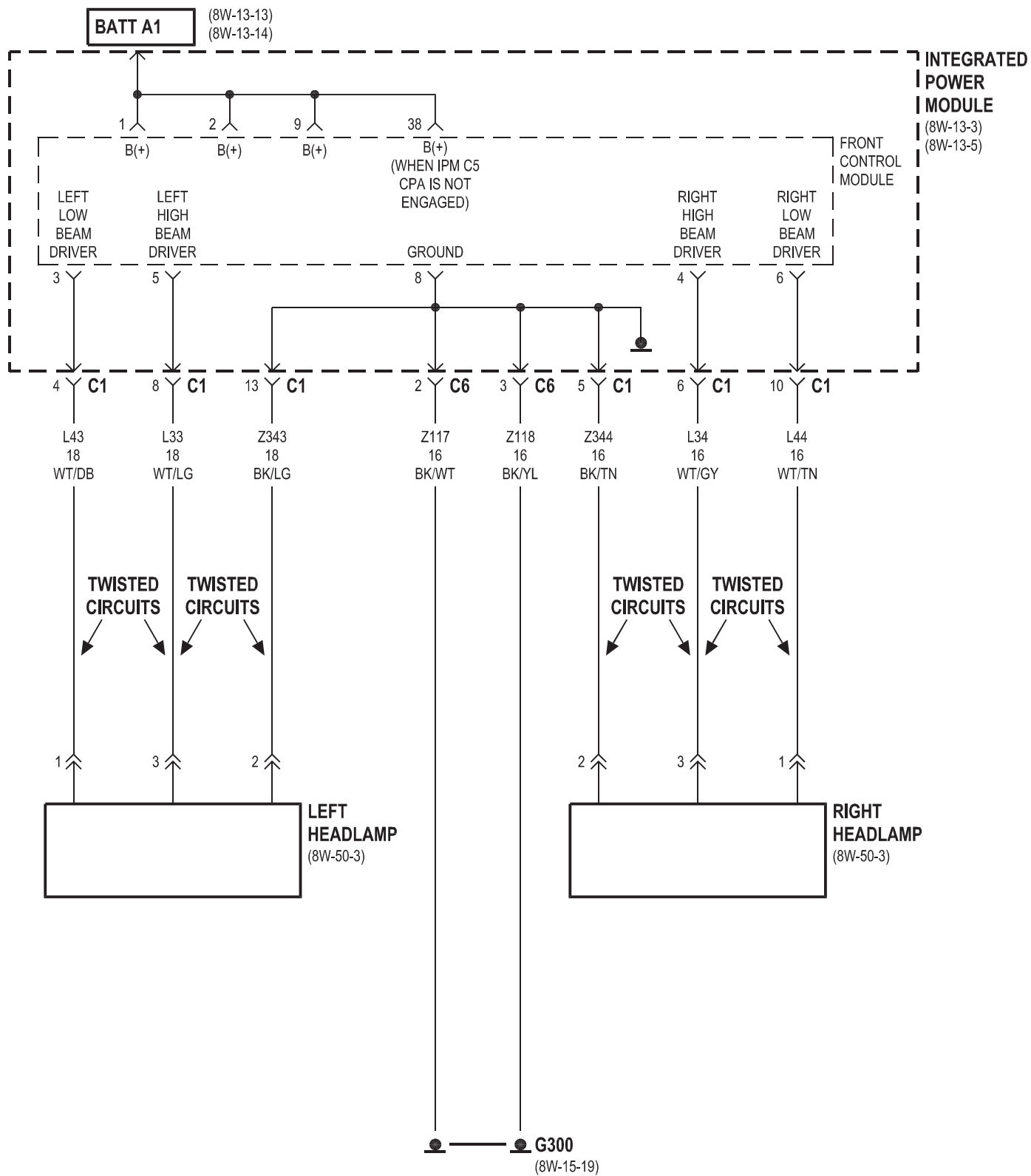
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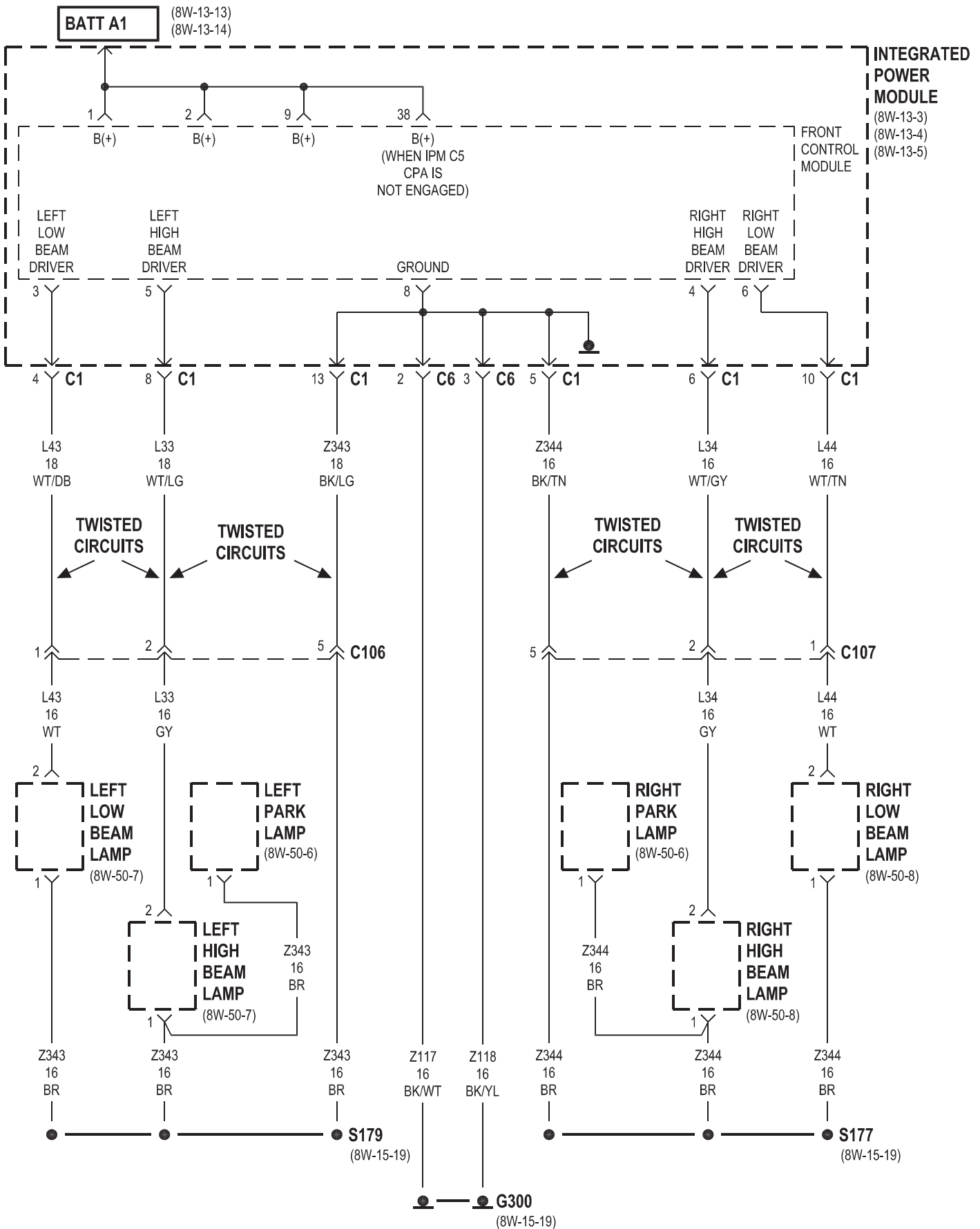


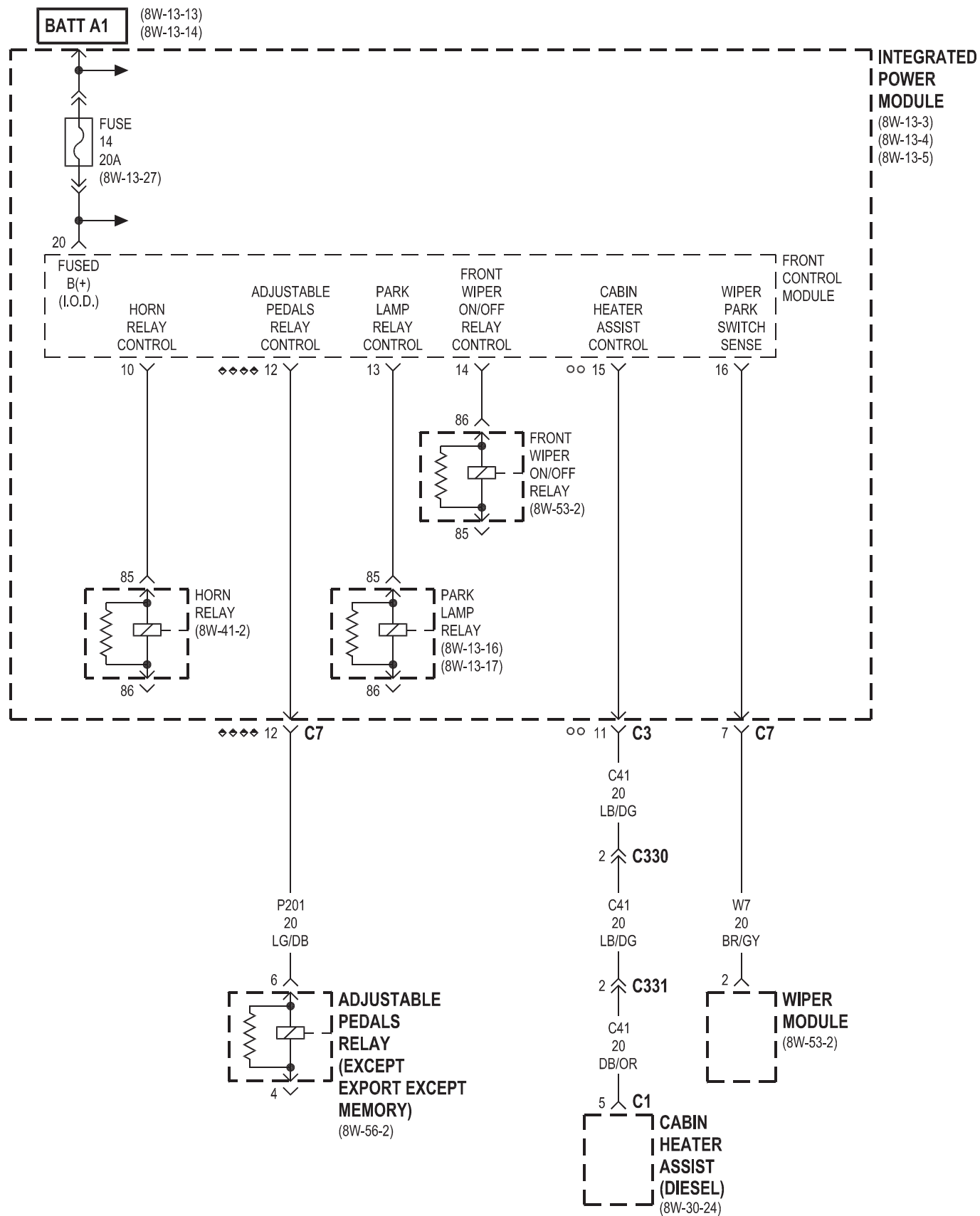




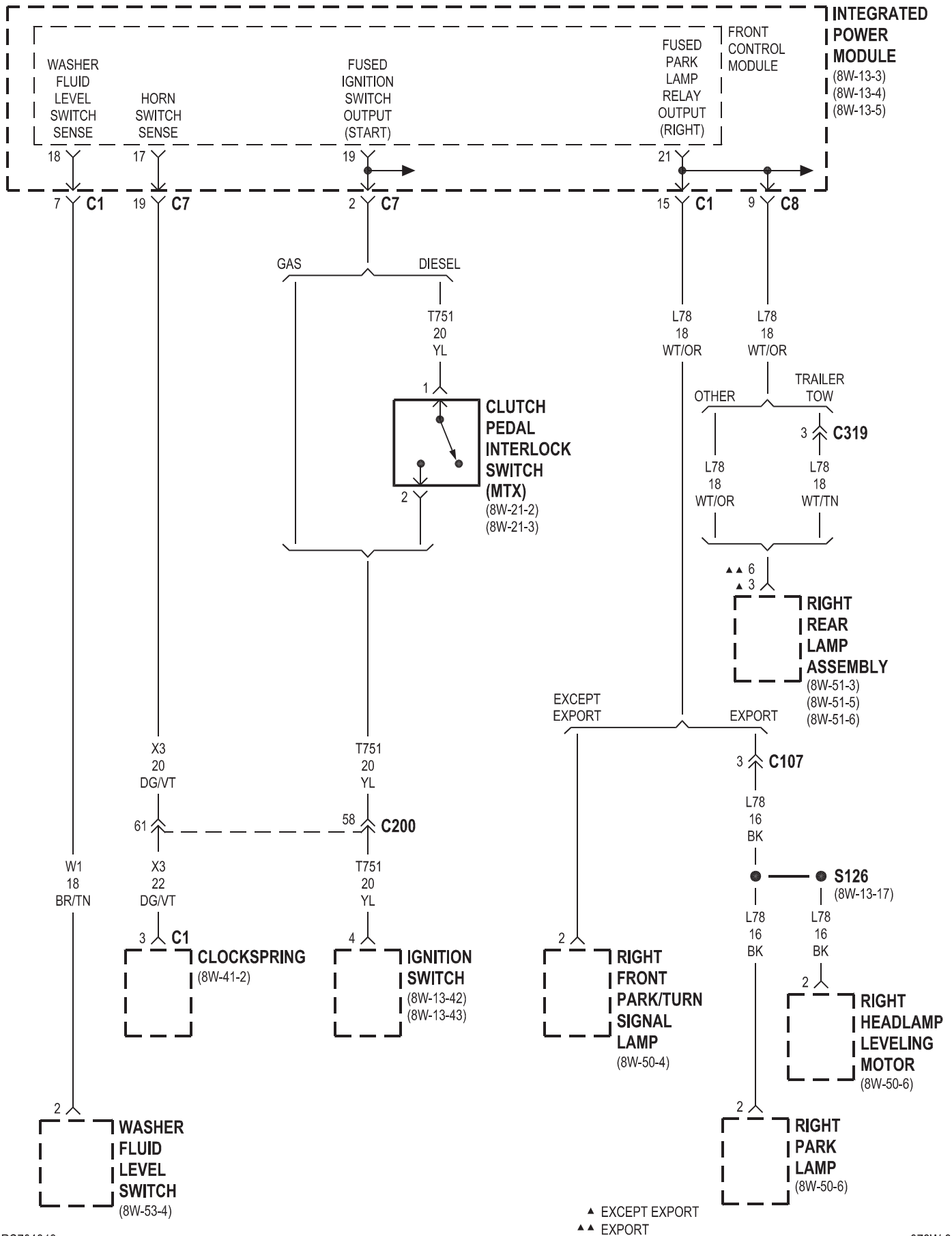


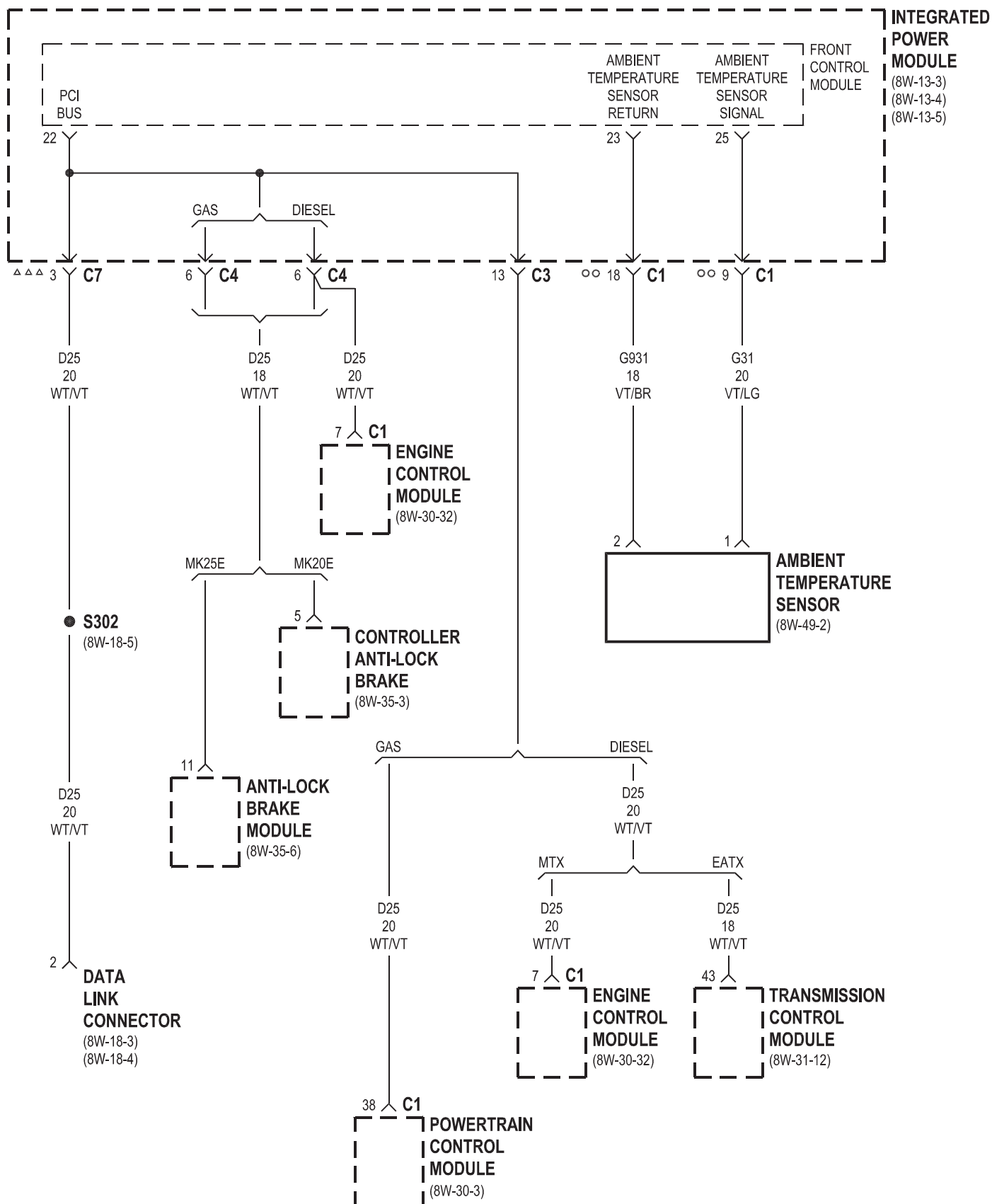






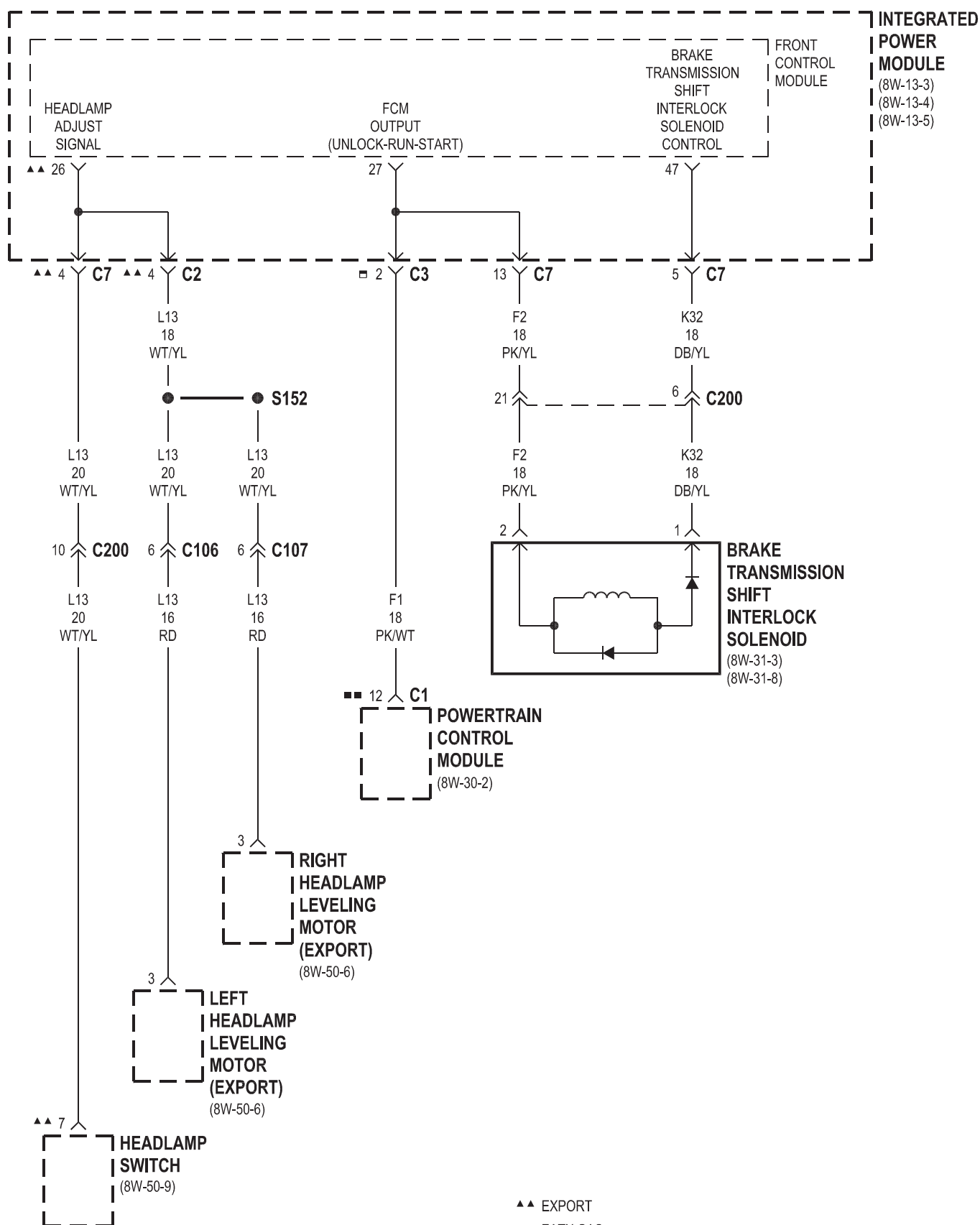
FRONT CONTROL MODULE

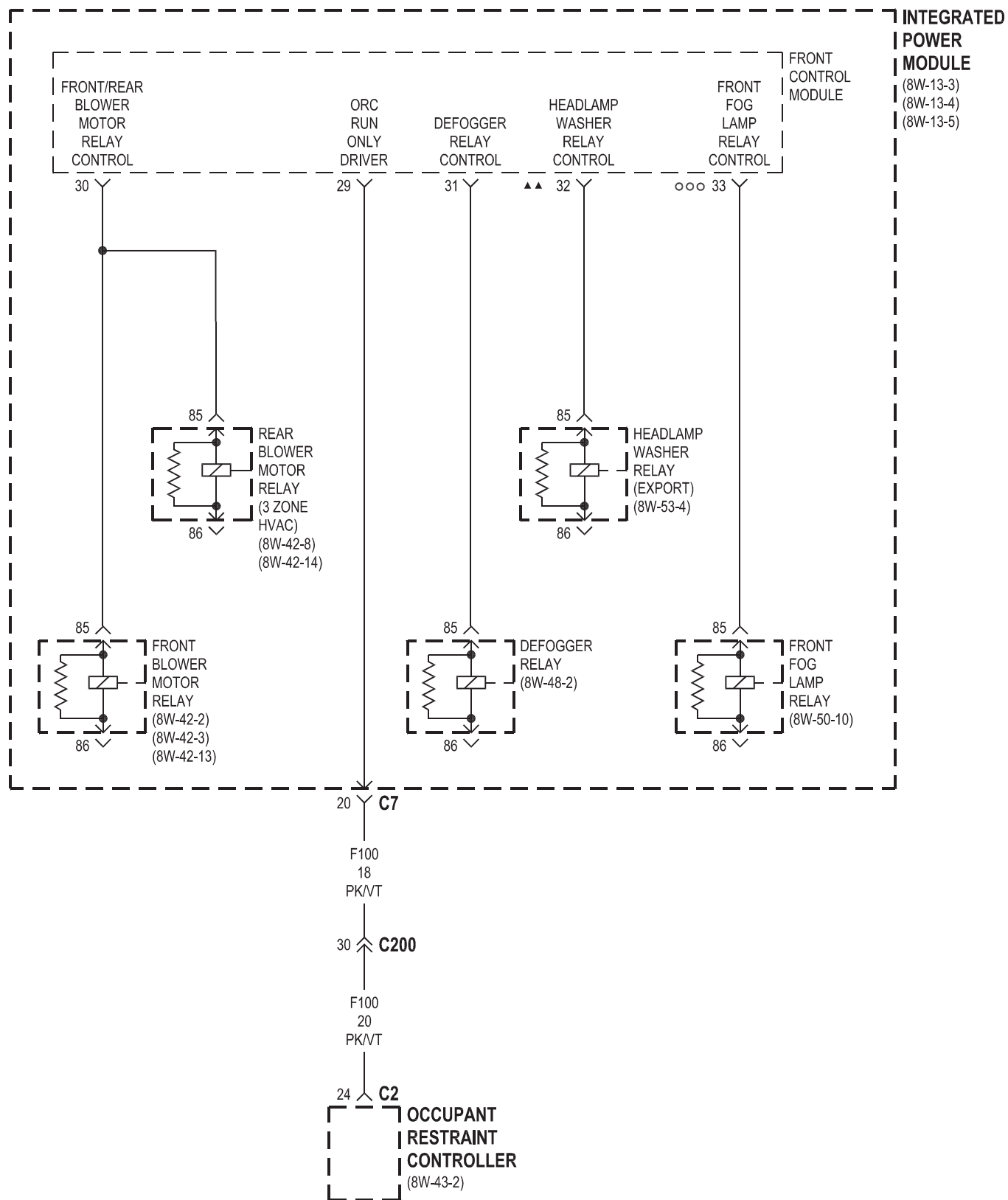




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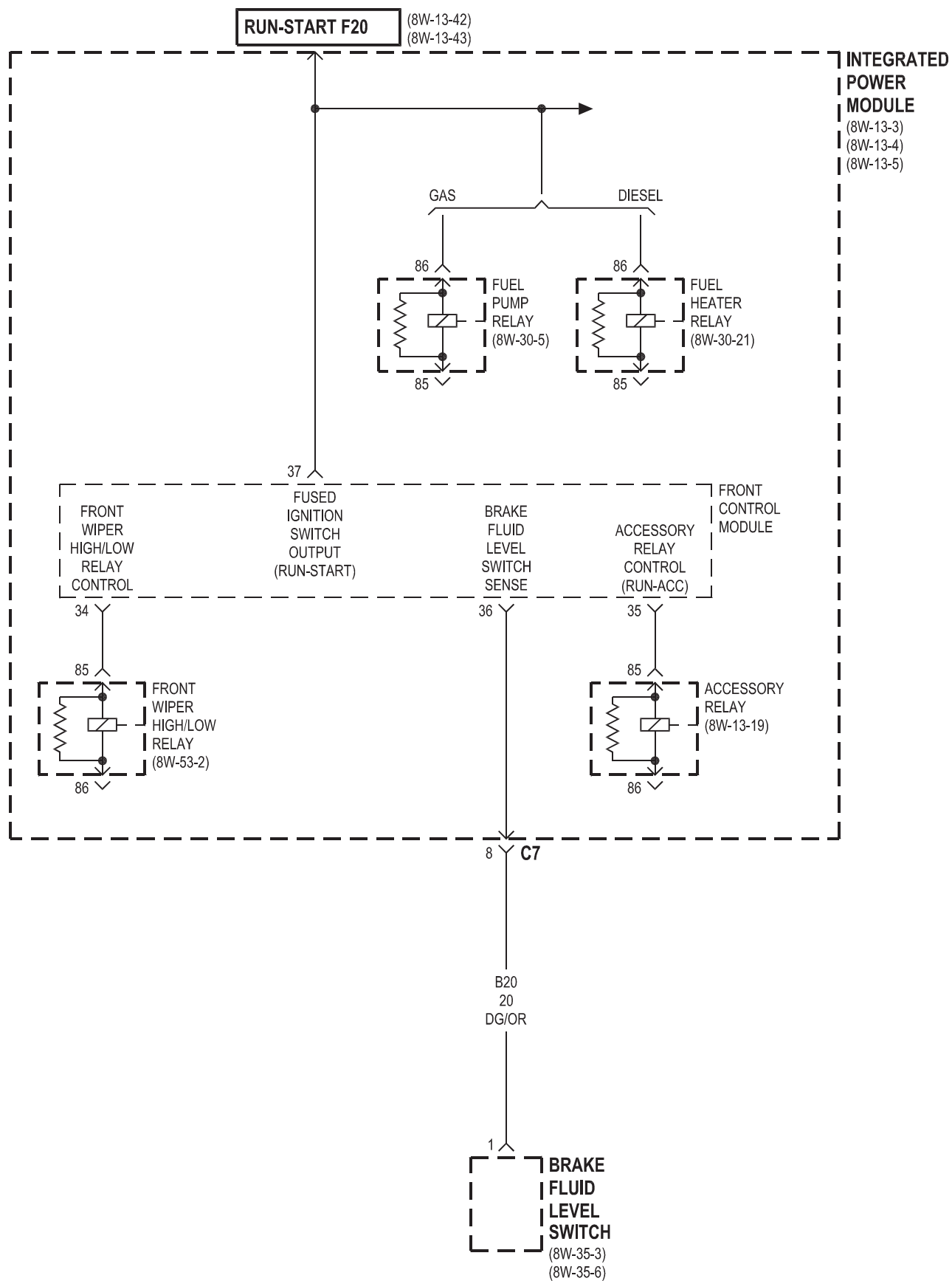
△△△ MEMORY

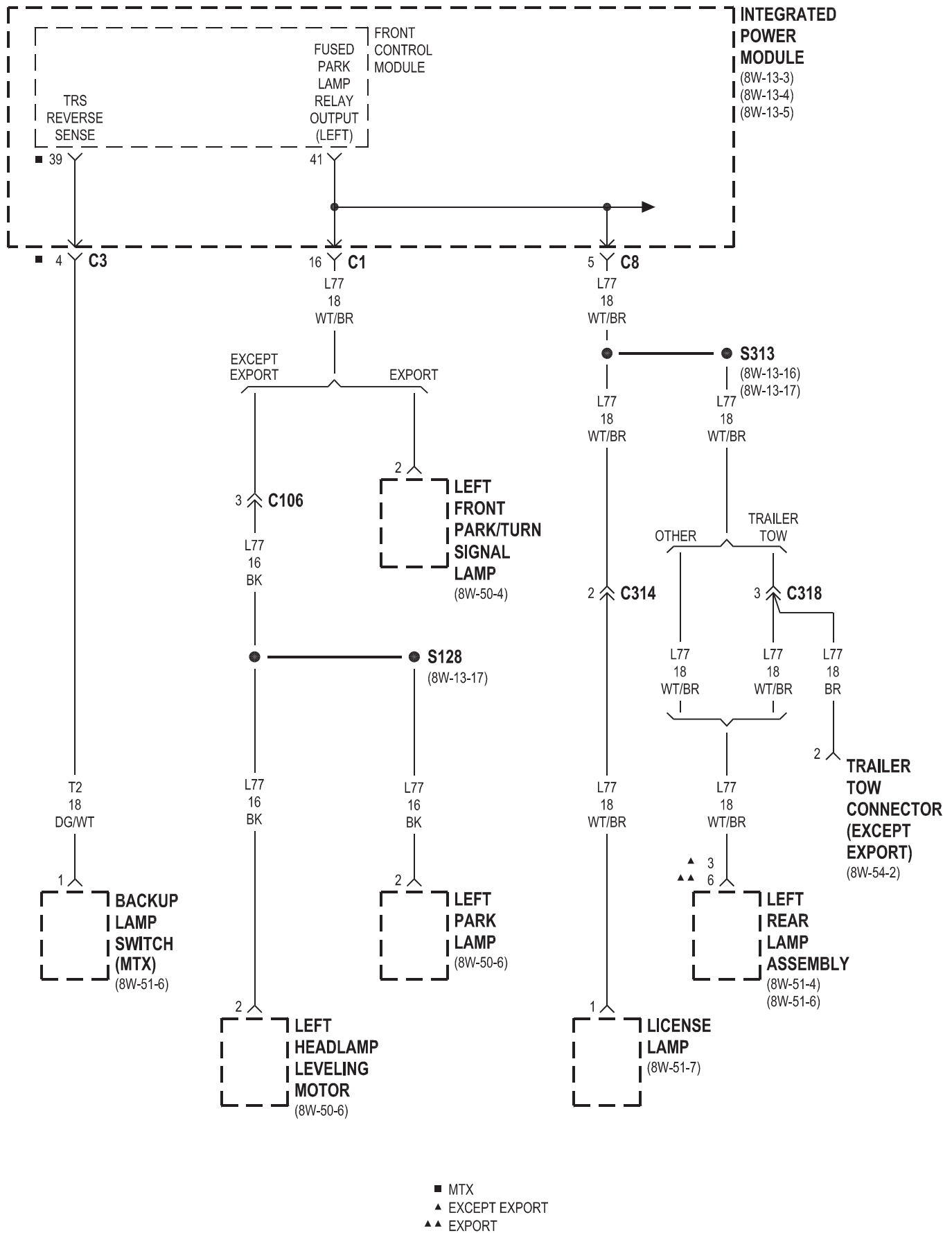




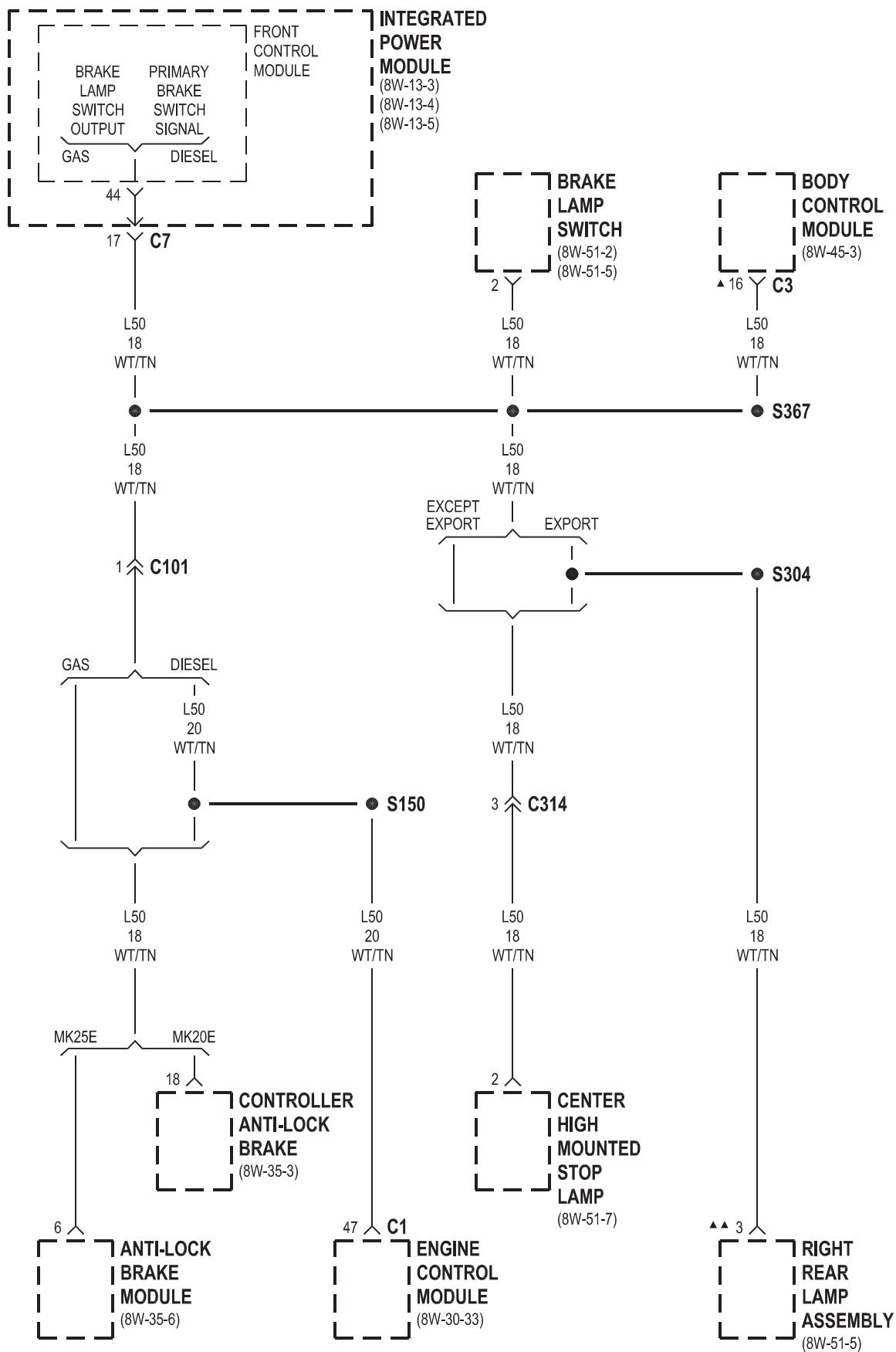
○○○ FOG LAMPS

▲▲ EXPORT





FRONT CONTROL MODULE



▲ EXCEPT EXPORT
▲▲ EXPORT

FRONT CONTROL MODULE

