

CONTROL MODULE PIN-OUT INFORMATION

Driver Seat Module

Pin	Description and Characteristic
C	DM1-02 CAN -
C	DM1-12 CAN +
B+	DM2-01 BATTERY POWER SUPPLY: B+
SG	DM2-03 SIGNAL GROUND: GROUND
B+	DM2-04 IGNITION SWITCHED POWER SUPPLY II: B+
PG	DM2-05 POWER GROUND: GROUND
B+	DM2-06 BATTERY POWER SUPPLY: B+
I	DM2-07 DRIVER DOOR AJAR SWITCH SIGNAL: OPEN CIRCUIT WHEN ACTIVATED
PG	DM2-10 POWER GROUND: GROUND
I	DM3-01 DRIVER SEAT BACK RECLINE / INCLINE POSITION SIGNAL
SG	DM3-02 DRIVER SEAT BACK RECLINE / INCLINE POSITION SIGNAL GROUND
I	DM3-03 DRIVER SEAT CUSHION REAR UP / DOWN POSITION SIGNAL
SG	DM3-04 DRIVER SEAT CUSHION REAR UP / DOWN POSITION SIGNAL GROUND
I	DM3-05 DRIVER SEAT CUSHION FRONT UP / DOWN POSITION SIGNAL
SG	DM3-06 DRIVER SEAT CUSHION FRONT UP / DOWN POSITION SIGNAL GROUND
I	DM3-07 DRIVER SEAT FORE / AFT POSITION SIGNAL
SG	DM3-08 DRIVER SEAT FORE / AFT POSITION SIGNAL GROUND
O	DM4-01 DRIVER SEAT BACK RECLINE / INCLINE MOTOR DRIVE
O	DM4-02 DRIVER SEAT BACK RECLINE / INCLINE MOTOR DRIVE
O	DM4-03 DRIVER SEAT CUSHION REAR UP / DOWN MOTOR DRIVE
O	DM4-04 DRIVER SEAT CUSHION REAR UP / DOWN MOTOR DRIVE
O	DM4-05 DRIVER SEAT CUSHION FRONT UP / DOWN MOTOR DRIVE
O	DM4-06 DRIVER SEAT CUSHION FRONT UP / DOWN MOTOR DRIVE
O	DM4-07 DRIVER SEAT FORE / AFT MOTOR DRIVE
O	DM4-08 DRIVER SEAT FORE / AFT MOTOR DRIVE
O	DM5-01 DRIVER SEAT LUMBAR PUMP DRIVE
O	DM5-02 DRIVER SEAT LUMBAR PUMP DRIVE

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

Fig. 11.1

COMPONENTS

Component	Connector(s)	Connector Description	Location
DOOR LATCH – DRIVER	DD3 DD9	8-WAY / BLACK 2-WAY / BLACK	DRIVER DOOR
SEAT LUMBAR PUMP – DRIVER	DM10	3-WAY / WHITE	DRIVER SEAT
SEAT MODULE – DRIVER	DM2 DM3 DM4 DM5	10-WAY / GREY 16-WAY / BLACK 8-WAY / BLUE 8-WAY / GREEN	DRIVER SEAT SWITCH PACK
SEAT MOTORS AND POSITION SENSORS – DRIVER	DM7 DM8 DM9 ML12	4-WAY / GREY 4-WAY / GREY 4-WAY / GREY 4-WAY / GREY	DRIVER SEAT

HARNES IN-LINE CONNECTORS

Connector	Connector Description	Location
CA15	20-WAY / BLACK / CABIN HARNES TO DRIVER DOOR HARNES	DRIVER DOOR / DOOR CASING
CA65	18-WAY / BLACK / CABIN HARNES TO DRIVER SEAT HARNES	UNDER DRIVER SEAT
CA413	12-WAY / BLACK / INSTRUMENT PANEL HARNES TO CABIN HARNES	INSTRUMENT PANEL
DM6	4-WAY / GREY / DRIVER SEAT HARNES TO LINK LEAD HARNES	UNDER DRIVER SEAT

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G15	CA	LOWER LH 'A' POST

FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.

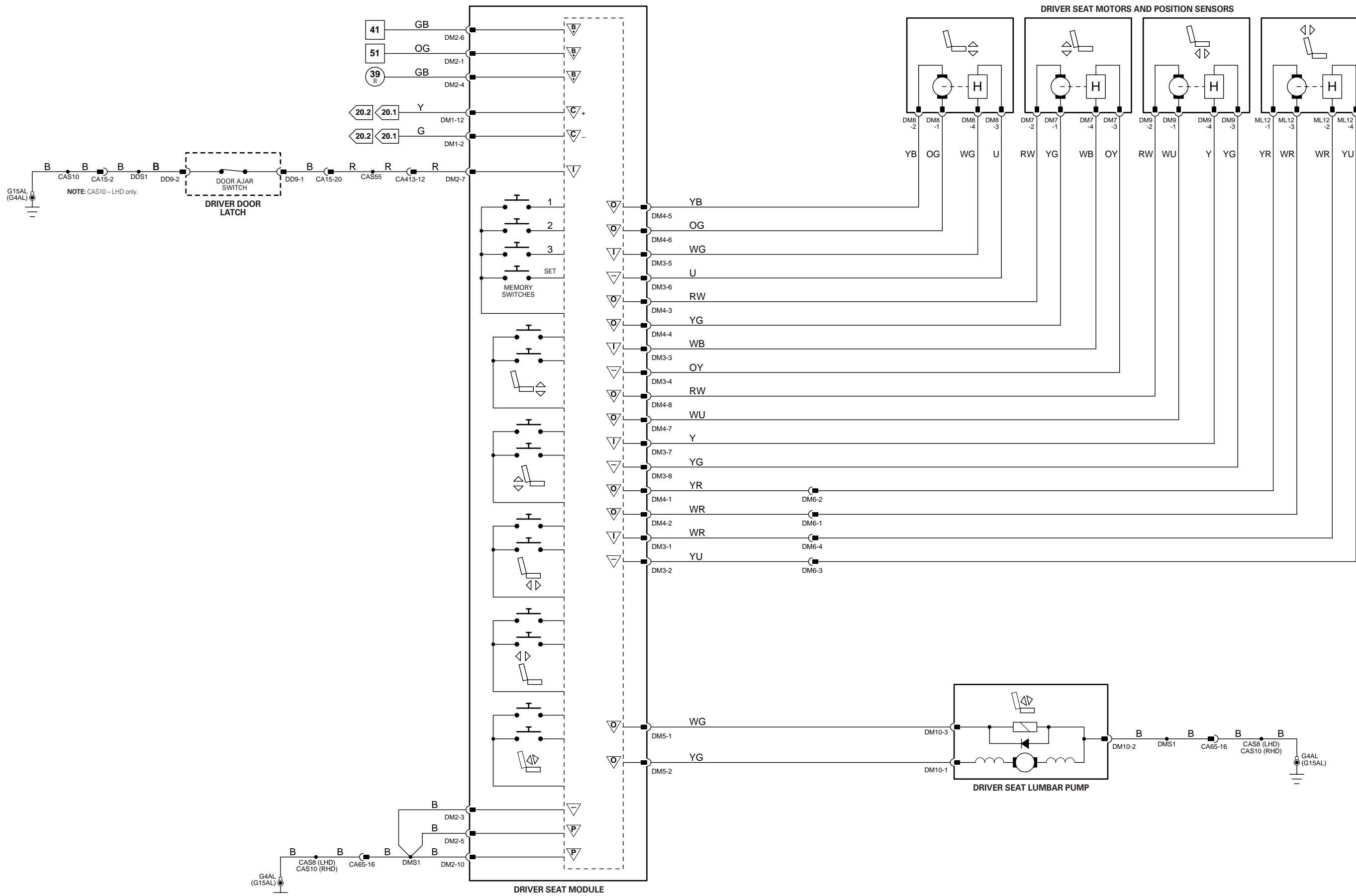
The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



CONTROL MODULE PIN-OUT INFORMATION

Passenger Seat Module

Pin	Description and Characteristic
B+	PM2-01 BATTERY POWER SUPPLY: B+
I	PM2-02 PASSENGER SEAT HEATER SWITCH SIGNAL
B+	PM2-04 IGNITION SWITCHED POWER SUPPLY II: B+
PG	PM2-05 POWER GROUND: GROUND
B+	PM2-06 BATTERY POWER SUPPLY: B+
PG	PM2-10 POWER GROUND: GROUND
O	PM4-01 PASSENGER SEAT BACK RECLINE / INCLINE MOTOR DRIVE
O	PM4-02 PASSENGER SEAT BACK RECLINE / INCLINE MOTOR DRIVE
O	PM4-03 PASSENGER SEAT CUSHION REAR UP / DOWN MOTOR DRIVE
O	PM4-04 PASSENGER SEAT CUSHION REAR UP / DOWN MOTOR DRIVE
O	PM4-05 PASSENGER SEAT CUSHION FRONT UP / DOWN MOTOR DRIVE
O	PM4-06 PASSENGER SEAT CUSHION FRONT UP / DOWN MOTOR DRIVE
O	PM4-07 PASSENGER SEAT FORE / AFT MOTOR DRIVE
O	PM4-08 PASSENGER SEAT FORE / AFT MOTOR DRIVE
†	
O	PM5-01 PASSENGER SEAT LUMBAR PUMP DRIVE
O	PM5-02 PASSENGER SEAT LUMBAR PUMP DRIVE

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

Fig. 11.2

COMPONENTS

Component	Connector(s)	Connector Description	Location
SEAT LUMBAR PUMP – PASSENGER	PM19	3-WAY / WHITE	PASSENGER SEAT
SEAT MODULE – PASSENGER	PM2	10-WAY / GREY	PASSENGER SEAT SWITCH PACK
	PM4	8-WAY / BLUE	
	PM5	8-WAY / GREEN	
SEAT MOTORS – PASSENGER	PM6	2-WAY / RED	PASSENGER SEAT
	PM7	2-WAY / RED	
	PM8	2-WAY / BLACK	
	PM9	2-WAY / RED	

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA70	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT

GROUNDINGS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G15	CA	LOWER LH 'A' POST

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The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

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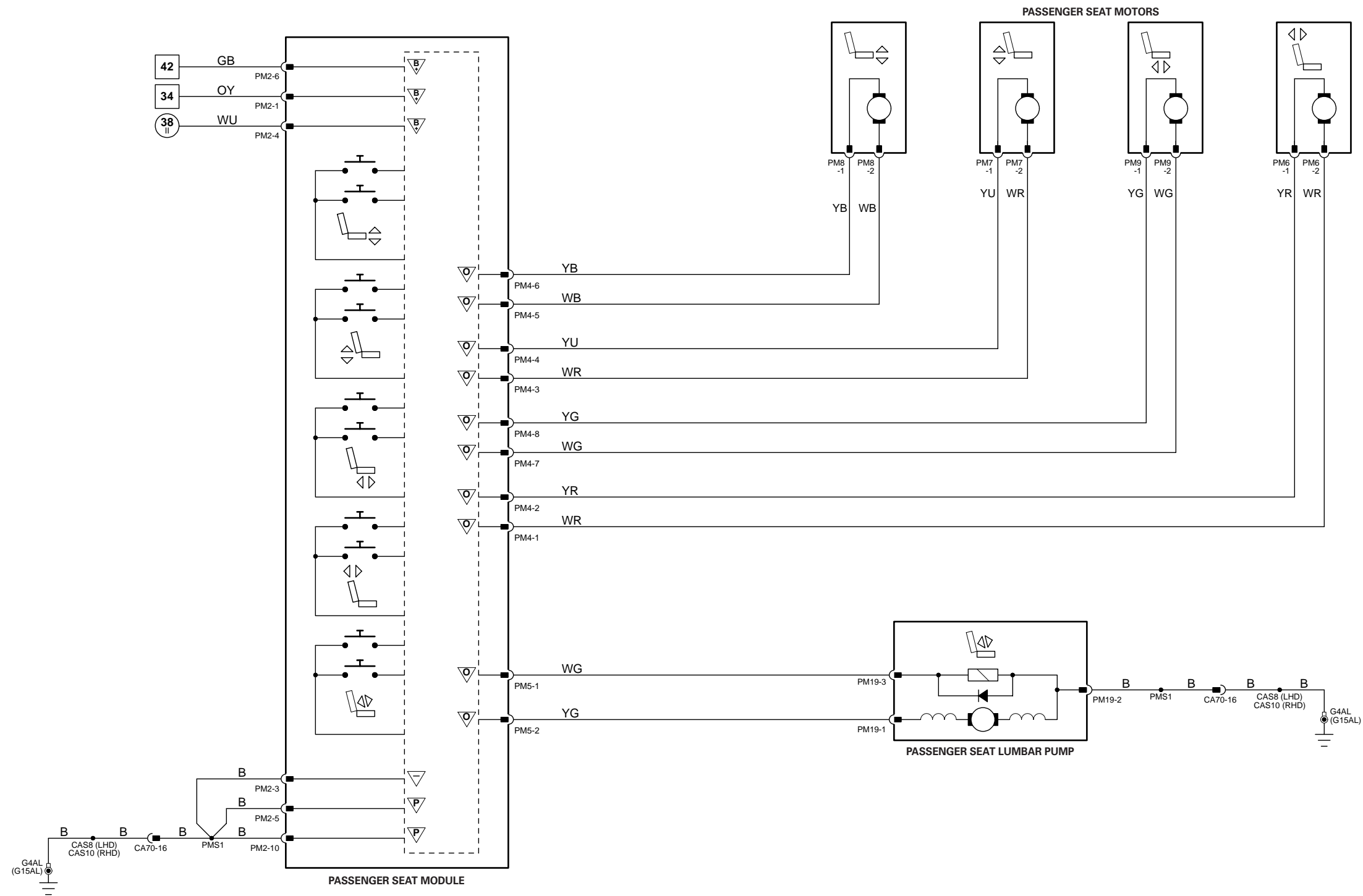


Fig. 11.3**COMPONENTS**

Component	Connector(s)	Connector Description	Location
LUMBAR SWITCH PACK – RH	LS16	7-WAY / BLACK	RH FRONT SEAT
LUMBAR SWITCH PACK – LH	RS16	7-WAY / BLACK	LH FRONT SEAT
SEAT LUMBAR PUMP – LH	LS19	3-WAY / WHITE	LH FRONT SEAT
SEAT LUMBAR PUMP – RH	RS19	3-WAY / WHITE	RH FRONT SEAT
SEAT MOVEMENT MOTORS – RH	RS2	2-WAY / NATURAL	RH FRONT SEAT
	RS4	2-WAY / RED	
	RS5	2-WAY / BLACK	
	RS6	2-WAY / RED	
SEAT MOVEMENT MOTORS – LH	LS2	2-WAY / NATURAL	LH FRONT SEAT
	LS4	2-WAY / RED	
	LS5	2-WAY / BLACK	
	LS6	2-WAY / RED	
SEAT SWITCH PACK – LH	LS1	12-WAY / GREY	LH FRONT SEAT
SEAT SWITCH PACK – RH	RS1	12-WAY / GREY	RH FRONT SEAT

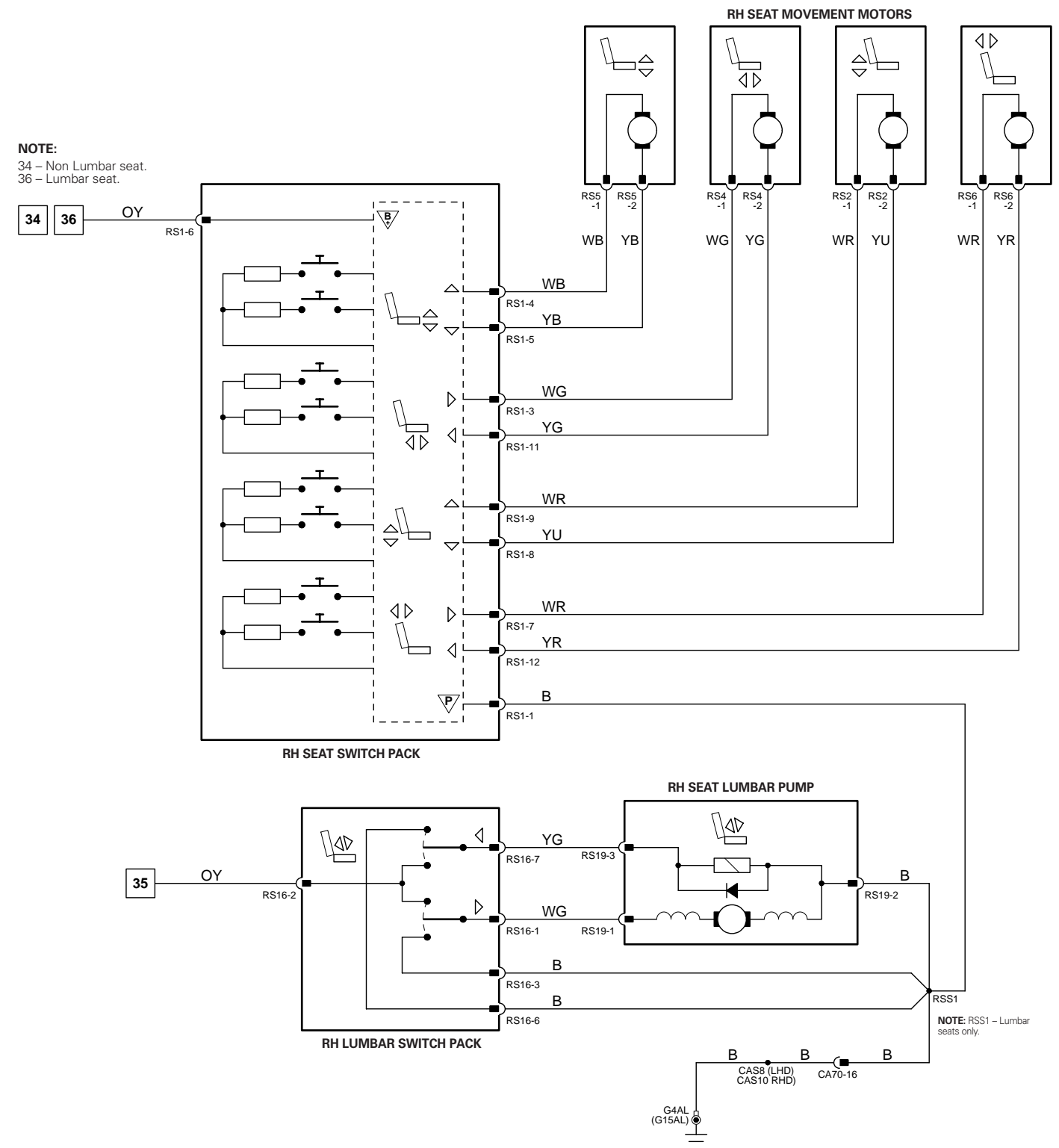
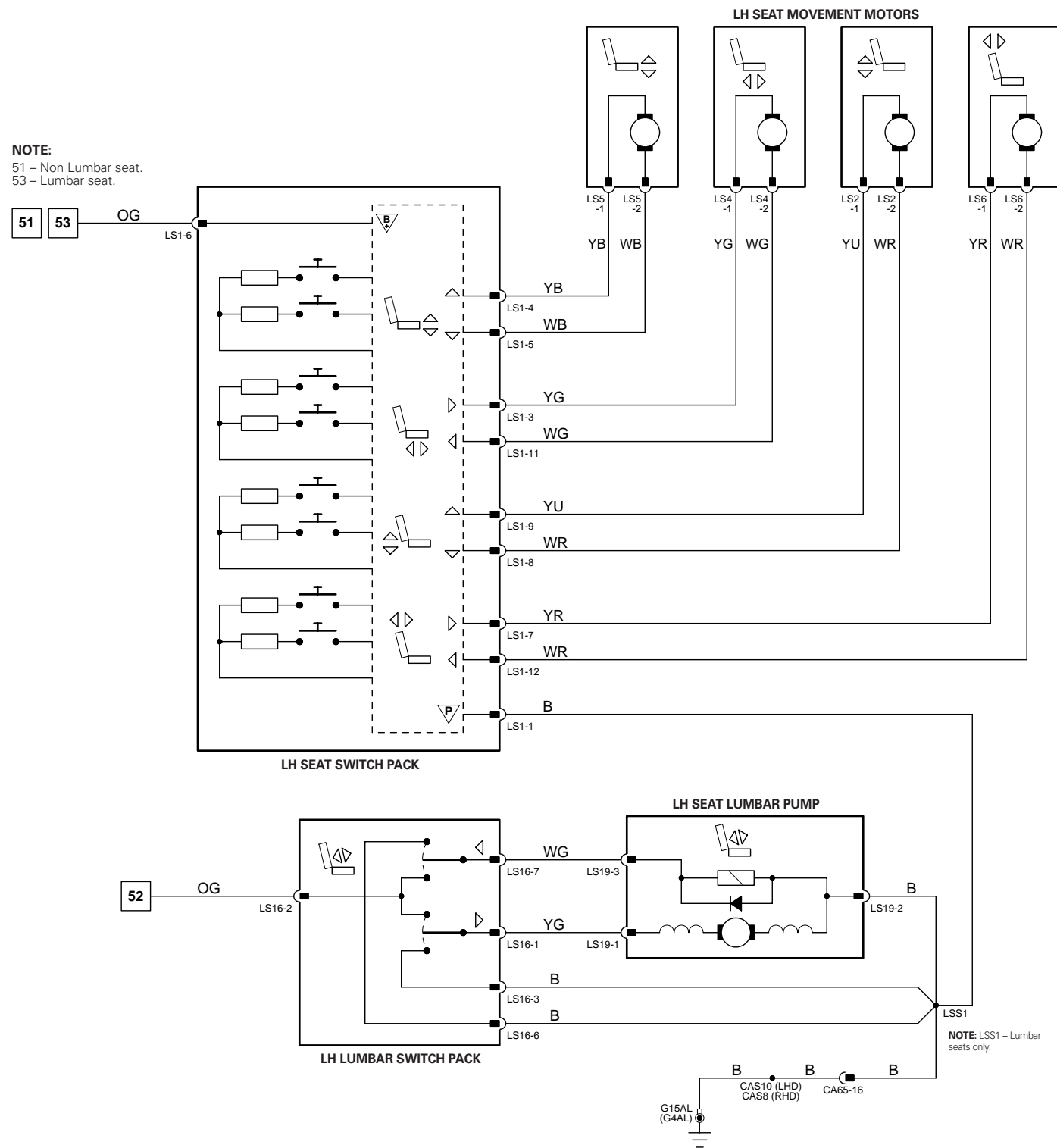
HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA65	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA70	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G15	CA	LOWER LH 'A' POST

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



NOTE: Powered Lumbar circuit and components - Powered Lumbar seats only.

Fig. 11.4**COMPONENTS**

Component	Connector(s)	Connector Description	Location
LUMBAR SWITCH PACK – RH	LS16	7-WAY / BLACK	RH FRONT SEAT
LUMBAR SWITCH PACK – LH	RS16	7-WAY / BLACK	LH FRONT SEAT
SEAT LUMBAR PUMP – LH	LS19	3-WAY / WHITE	LH FRONT SEAT
SEAT LUMBAR PUMP – RH	RS19	3-WAY / WHITE	RH FRONT SEAT
SEAT MOVEMENT MOTORS – RH	RS2	2-WAY / NATURAL	RH FRONT SEAT
	RS4	2-WAY / RED	
	RS5	2-WAY / BLACK	
	RS6	2-WAY / RED	
SEAT MOVEMENT MOTORS – LH	LS2	2-WAY / NATURAL	LH FRONT SEAT
	LS4	2-WAY / RED	
	LS5	2-WAY / BLACK	
	LS6	2-WAY / RED	
SEAT SWITCH PACK – LH	LS1	12-WAY / GREY	LH FRONT SEAT
SEAT SWITCH PACK – RH	RS1	12-WAY / GREY	RH FRONT SEAT

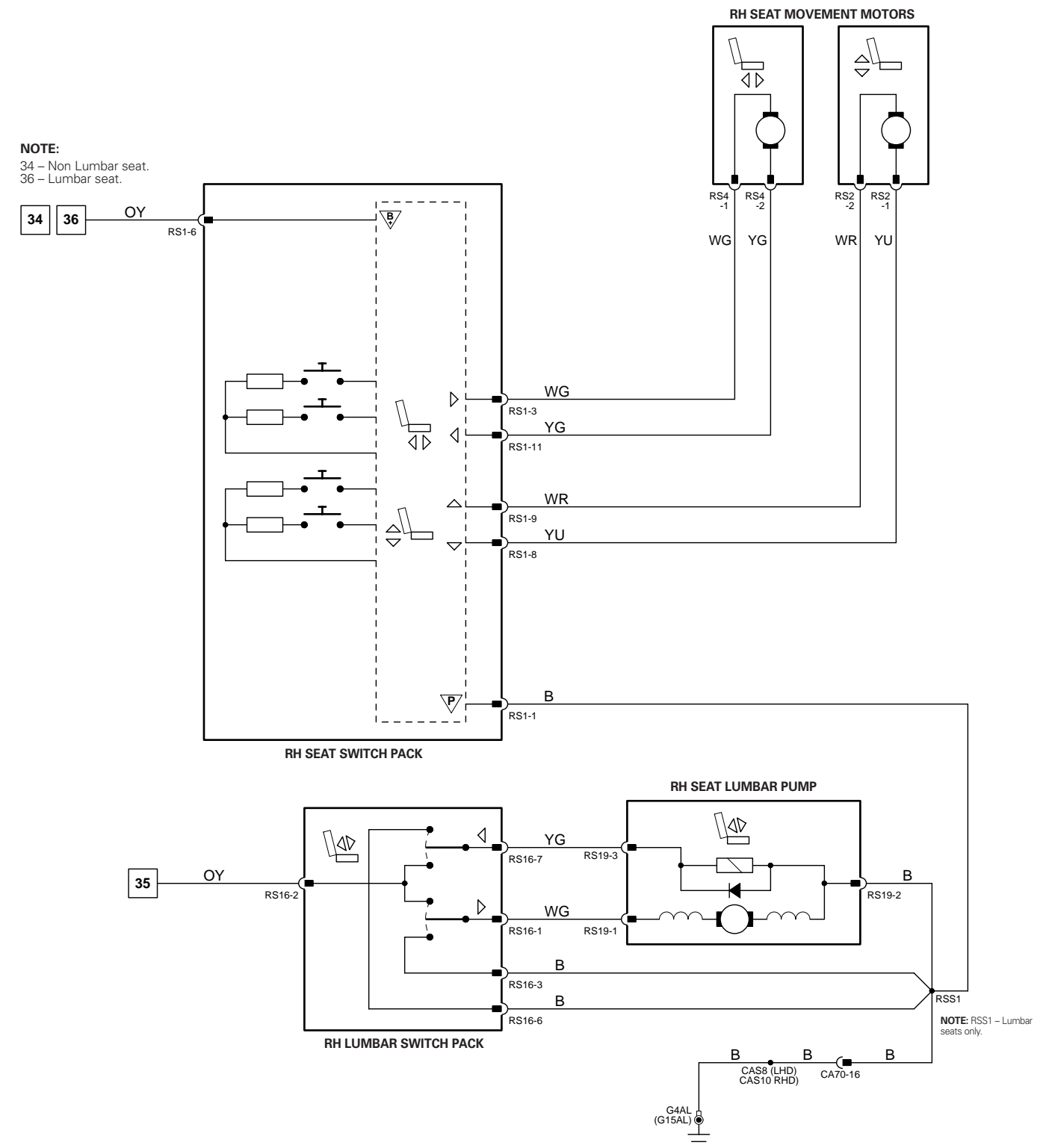
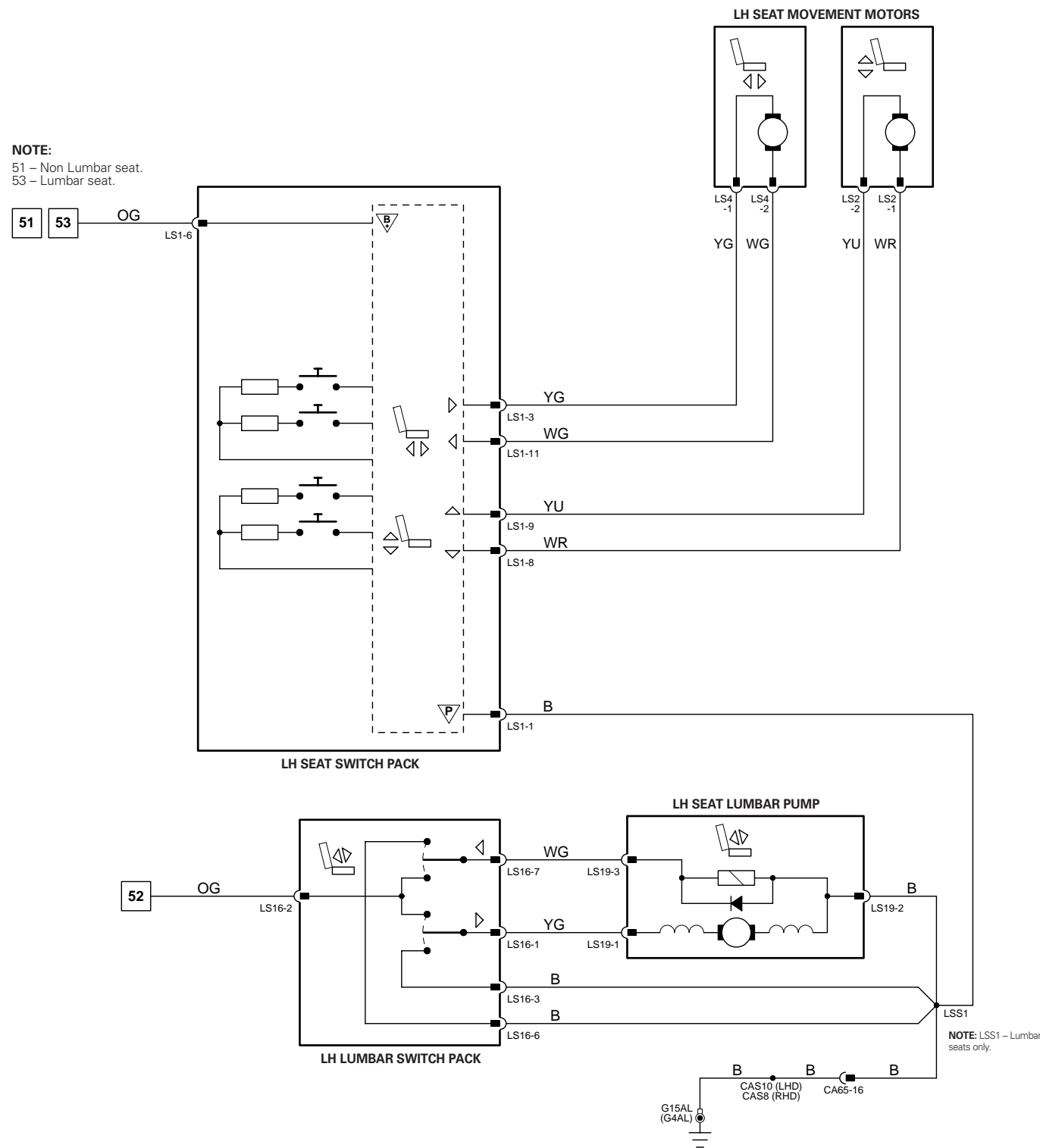
HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA65	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA70	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G15	CA	LOWER LH 'A' POST

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NOTE: Powered Lumbar circuit and components – Powered Lumbar seats only.

Fig. 11.5**COMPONENTS**

Component	Connector(s)	Connector Description	Location
SEAT MOTOR – LH	LS10	2-WAY / RED	LH FRONT SEAT
SEAT MOTOR – RH	RS10	2-WAY / RED	RH FRONT SEAT
SEAT SWITCH PACK – LH	LS1	12-WAY / GREY	LH FRONT SEAT
SEAT SWITCH PACK – RH	RS1	12-WAY / GREY	RH FRONT SEAT

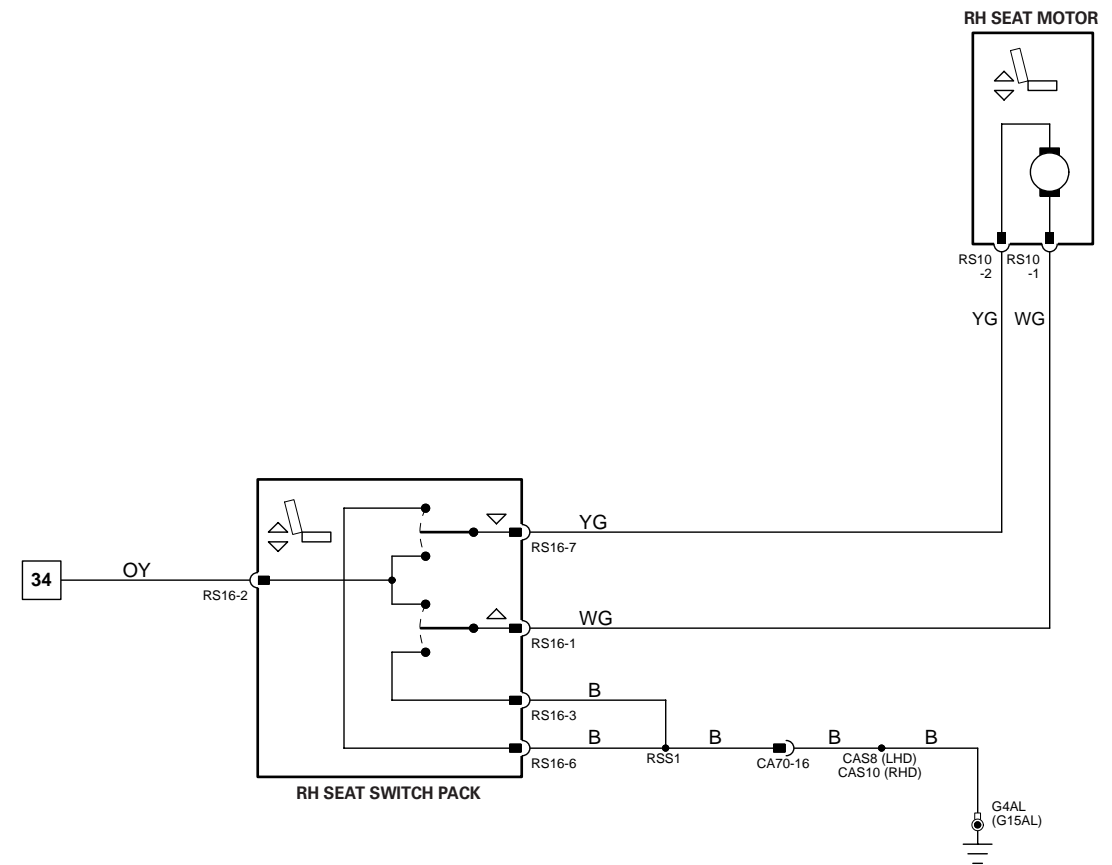
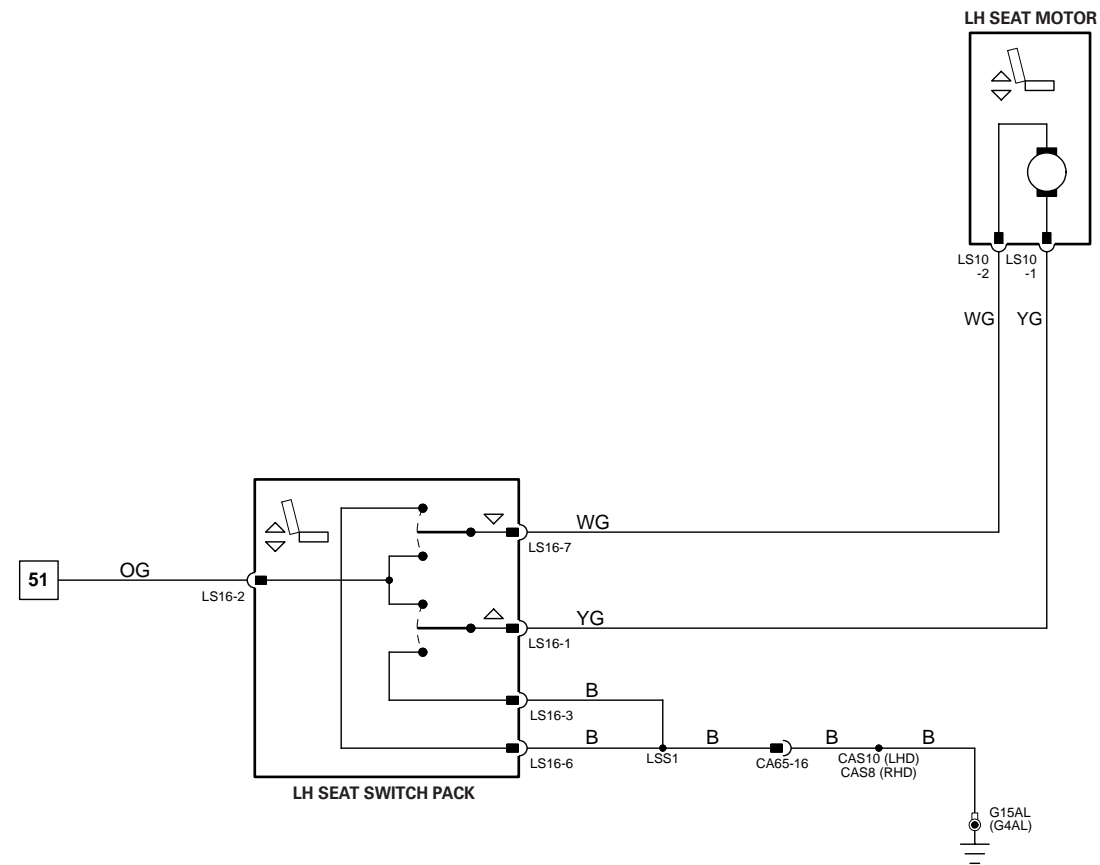
HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA65	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA70	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G15	CA	LOWER LH 'A' POST

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CONTROL MODULE PIN-OUT INFORMATION

Fig. 11.6

Driver Seat Module

Pin	Description and Characteristic
B+	DM2-01 BATTERY POWER SUPPLY: B+
I	DM2-02 DRIVER SEAT HEATER SWITCH SIGNAL
SG	DM2-03 SIGNAL GROUND: GROUND
B+	DM2-04 IGNITION SWITCHED POWER SUPPLY II: B+
PG	DM2-05 POWER GROUND: GROUND
B+	DM2-06 BATTERY POWER SUPPLY: B+
O	DM2-08 DRIVER SEAT HEATER STATE
O	DM2-09 DRIVER SEAT HEATER STATE
PG	DM2-10 POWER GROUND: GROUND
O	DM5-03 DRIVER SEAT HEATER DRIVE
I	DM5-04 DRIVER SEAT HEATER GROUND
I	DM5-07 DRIVER SEAT HEATER TEMPERATURE SENSOR SIGNAL
SG	DM5-08 DRIVER SEAT HEATER TEMPERATURE SENSOR SIGNAL GROUND

Passenger Seat Module

Pin	Description and Characteristic
B+	PM2-01 BATTERY POWER SUPPLY: B+
I	PM2-02 PASSENGER SEAT HEATER SWITCH SIGNAL
SG	PM2-03 SIGNAL GROUND: GROUND
B+	PM2-04 IGNITION SWITCHED POWER SUPPLY II: B+
PG	PM2-05 POWER GROUND: GROUND
B+	PM2-06 BATTERY POWER SUPPLY: B+
O	PM2-08 PASSENGER SEAT HEATED STATE
O	PM2-09 PASSENGER SEAT HEATED STATE
PG	PM2-10 POWER GROUND: GROUND
O	PM5-03 PASSENGER SEAT HEATER DRIVE
I	PM5-04 PASSENGER SEAT HEATER GROUND
I	PM5-07 PASSENGER SEAT HEATER TEMPERATURE SENSOR SIGNAL
SG	PM5-08 PASSENGER SEAT HEATER TEMPERATURE SENSOR SIGNAL GROUND

COMPONENTS

Component	Connector(s)	Connector Description	Location
SEAT BACK HEATER – DRIVER	DM11	4-WAY / GREY	DRIVER SEAT
SEAT BACK HEATER – PASSENGER	PM10	4-WAY / GREY	PASSENGER SEAT
SEAT CUSHION HEATER – DRIVER	DM11	4-WAY / GREY	DRIVER SEAT
SEAT CUSHION HEATER – PASSENGER	PM10	4-WAY / GREY	PASSENGER SEAT
SEAT HEATER SWITCH – DRIVER: LHD	IP51	6-WAY / BLACK	CENTER CONSOLE
SEAT HEATER SWITCH – DRIVER: RHD	IP56	6-WAY / BLACK	CENTER CONSOLE
SEAT HEATER SWITCH – PASSENGER: LHD	IP56	6-WAY / BLACK	CENTER CONSOLE
SEAT HEATER SWITCH – PASSENGER: RHD	IP51	6-WAY / BLACK	CENTER CONSOLE
SEAT MODULE – DRIVER	DM2	10-WAY / GREY	DRIVER SEAT SWITCH PACK
	DM3	16-WAY / BLACK	
	DM4	8-WAY / BLUE	
	DM5	8-WAY / GREEN	
SEAT MODULE – PASSENGER	PM2	10-WAY / GREY	PASSENGER SEAT SWITCH PACK
	PM4	8-WAY / BLUE	
	PM5	8-WAY / GREEN	

HARNES IN-LINE CONNECTORS

Connector	Connector Description	Location
CA65	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA70	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA240	12-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G5	IP	UPPER RH 'A' POST
G15	CA	LOWER LH 'A' POST
G36	IP	BEHIND INSTRUMENT PANEL / LH SIDE OF CROSS CAR BEAM

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I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

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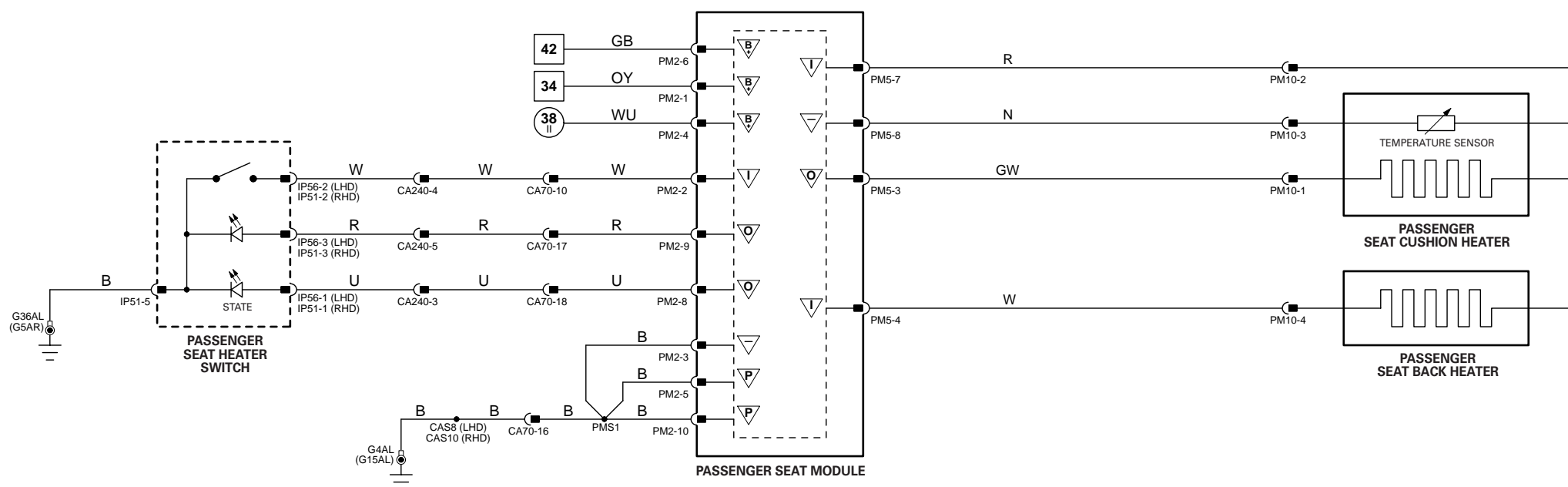
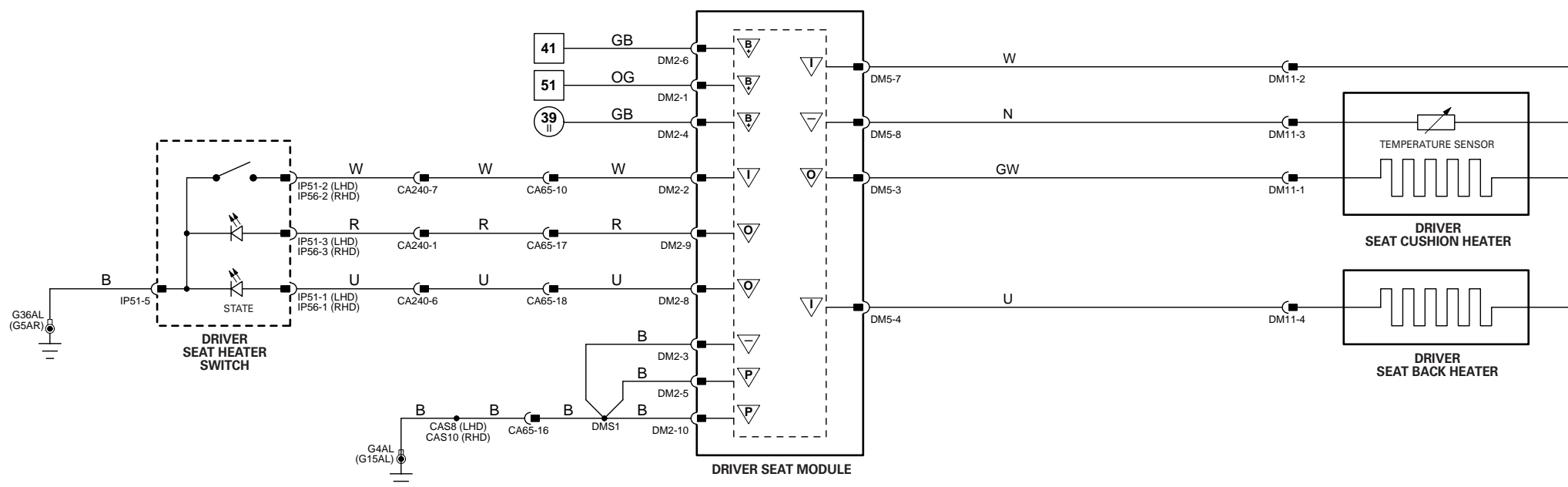


Fig. 11.7**COMPONENTS**

Component	Connector(s)	Connector Description	Location
SEAT BACK HEATER – LH	LS7	4-WAY / GREY	LH FRONT SEAT
SEAT BACK HEATER – RH	RS7	4-WAY / GREY	RH FRONT SEAT
SEAT CUSHION HEATER – LH	LS7	4-WAY / GREY	LH FRONT SEAT
SEAT CUSHION HEATER – RH	RS7	4-WAY / GREY	RH FRONT SEAT
SEAT HEATER MODULE – LH	LS13	12-WAY / GREY	BELOW LH FRONT SEAT
SEAT HEATER MODULE – RH	RS13	12-WAY / GREY	BELOW RH FRONT SEAT
SEAT HEATER SWITCH – LH: LHD	IP51	6-WAY / BLACK	CENTER CONSOLE
SEAT HEATER SWITCH – LH: RHD	IP56	6-WAY / BLACK	CENTER CONSOLE
SEAT HEATER SWITCH – RH: LHD	IP56	6-WAY / BLACK	CENTER CONSOLE
SEAT HEATER SWITCH – RH: RHD	IP51	6-WAY / BLACK	CENTER CONSOLE

HARNESS IN-LINE CONNECTORS

Connector	Connector Description	Location
CA65	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA70	18-WAY / BLACK / CABIN HARNESS TO DRIVER SEAT HARNESS	UNDER DRIVER SEAT
CA240	12-WAY / GREY / CABIN HARNESS TO INSTRUMENT PANEL HARNESS	LH LOWER 'A' POST / 'A' POST TRIM

GROUNDS

Ground	Harness	Location
G4	CA	LOWER RH 'A' POST
G5	IP	UPPER RH 'A' POST
G15	CA	LOWER LH 'A' POST
G36	IP	BEHIND INSTRUMENT PANEL / LH SIDE OF CROSS CAR BEAM

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