



BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH II
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

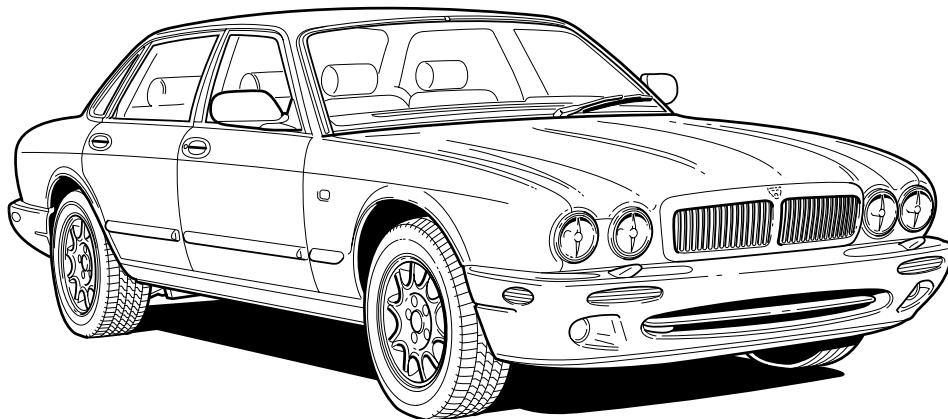


BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH
THE QUEEN MOTHER
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY



BY APPOINTMENT TO
HIS ROYAL HIGHNESS THE PRINCE OF WALES
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

XJ Series Sedan 1998 Electrical Guide



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Electrical Guide Format

This Electrical Guide is made up of two major sections. The first section, at the front of the book, provides general information for and about the use of the book, and information and illustrations to aid in the understanding of the XJ Series electrical / electronic systems, as well as the location and identification of components.

The second section includes the Figures, which are the basis of the book. Each Figure is identified by a Figure Number (i.e. Fig. 01.1) and Title, and is accompanied by a page of data containing information specific to that Figure.

It is recommended that the user read through the front section of the book to develop a familiarity with the layout of the book and with the system of symbols and abbreviations used. The Table of Contents on the following pages should help to guide the user.

Standard Abbreviations

The following abbreviations are used throughout this Electrical Guide:

B+	Battery Voltage
CAN	Controller Area Network
DI	Direction Indicator
LH	Left-Hand
LHD	Left-Hand Drive
LWB	Long Wheelbase
N/A	Normally Aspirated
NAS	North American Specification
RH	Right-Hand
RHD	Right-Hand Drive
ROW	Rest of World
SC	Supercharged
SCP	Standard Corporate Protocol Network
VIN	Vehicle Identification Number

Refer to the Vehicle Service Manual for a glossary of standard terms and their abbreviations.

Vehicle Identification Numbers (VIN)

VIN ranges are presented throughout the book in the following manner:

➔ VIN 123456 indicates "up to VIN 123456" ; VIN 123456 ➔ indicates "from VIN 123456 on".

XJ Series Electrical System Architecture

The 1998 Model Year XJ Series uses an advanced electrical system architecture which features "multiplexing", first introduced in Jaguar vehicles with the XK8. Multiplexing allows for simplified wiring harnesses while providing greater flexibility in programming market variants. Two data networks are used in the system: a controller area network (CAN) for the engine, drive train and related systems, and a standard corporate protocol network (SCP) for the body systems. Any vehicle subsystem depicted on the figures with the CAN or SCP included uses data derived from the network, or transmits data via the network to achieve control. Messages for both networks are cataloged in the Appendix of this book. When appropriate, the user will be referred to the Appendix by a note on the Data page. In addition to the two networks, the XJ Series uses two serial data buses (ISO) for diagnostics, for the security system and for the programming of certain control modules.

The XJ Series uses both power and logic grounds; however, it does not use a common logic ground stud connection as in previous Sedan vehicles.



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.....	Fig. 12.5	Fig. 13.4
.....	Fig. 19.1		



SECURITY AND LOCKING CONTROL MODULE	Fig. 09.3	SWITCH PACK – DRIVER REAR DOOR	Fig. 10.2
.....	Fig. 09.4	.....	Fig. 15.1
.....	Fig. 13.1	.....	Fig. 15.2
.....	Fig. 13.2	SWITCH PACK – DRIVER SEAT (RAISE / LOWER ONLY)	Fig. 12.3
.....	Fig. 13.3	SWITCH PACK – DRIVER SEAT	Fig. 12.1
.....	Fig. 13.4	.....	Fig. 12.2
.....	Fig. 15.1	SWITCH PACK – PASSENGER DOOR	Fig. 10.2
.....	Fig. 15.2	.....	Fig. 15.1
SIDE AIRBAGS	Fig. 17.1	.....	Fig. 15.2
SIDE DI REPEATERS	Fig. 09.2	SWITCH PACK – PASSENGER REAR DOOR	Fig. 10.2
SIDE MARKERS – FRONT	Fig. 09.1	.....	Fig. 15.1
SIDE MARKER AND NUMBER PLATE LAMP RELAY	Fig. 09.3	.....	Fig. 15.2
.....	Fig. 09.4	SWITCH PACK – PASSENGER SEAT	Fig. 12.4
SLIDING ROOF CONTROL MODULE	Fig. 15.1	.....	Fig. 12.5
.....	Fig. 15.2	TAIL LAMP UNITS	Fig. 09.3
SLIDING ROOF MOTOR	Fig. 15.1	.....	Fig. 09.4
.....	Fig. 15.2	TELEPHONE ANTENNA	Fig. 16.3
SLIDING ROOF SWITCH (ROOF CONSOLE)	Fig. 15.1	TELEPHONE HANDSET	Fig. 16.3
.....	Fig. 15.2	TELEPHONE MICROPHONE	Fig. 16.3
SOLAR SENSOR	Fig. 07.1	TELEPHONE TRANSCEIVER	Fig. 16.3
SPEAKER, 'A' POST TWEETERS	Fig. 16.2	THROTTLE MOTOR	Fig. 04.1
SPEAKER, FRONT DOOR MID-BASS	Fig. 16.1	.....	Fig. 04.2
.....	Fig. 16.2	.....	Fig. 04.3
SPEAKER, FRONT DOOR TWEETER	Fig. 16.1	.....	Fig. 04.5
SPEAKER, REAR DOOR MID-BASS	Fig. 16.1	.....	Fig. 04.6
.....	Fig. 16.2	THROTTLE MOTOR POWER RELAY	Fig. 04.1
SPEAKER, REAR DOOR TWEETER	Fig. 16.1	.....	Fig. 04.2
.....	Fig. 16.2	.....	Fig. 04.3
SQUAB HEATERS – DRIVER	Fig. 12.1	.....	Fig. 04.5
.....	Fig. 12.2	.....	Fig. 04.6
.....	Fig. 12.3	THROTTLE POSITION SENSOR	Fig. 04.1
.....	Fig. 12.6	.....	Fig. 04.2
.....	Fig. 12.7	.....	Fig. 04.3
SQUAB HEATERS – PASSENGER	Fig. 12.4	.....	Fig. 04.5
.....	Fig. 12.5	.....	Fig. 04.6
.....	Fig. 12.6	TRAILER CONNECTOR	Fig. 09.3
.....	Fig. 12.7	.....	Fig. 09.4
SQUAB HEATERS – REAR	Fig. 12.9	TRANSIT ISOLATION DEVICE	Fig. 01.1
.....	Fig. 12.10	TRANSMISSION CONTROL MODULE: AJ26 N/A	Fig. 05.1
STABILITY / TRACTION CONTROL SWITCH	Fig. 06.1	.....	Fig. 19.1
STARTER MOTOR	Fig. 03.1	TRANSMISSION CONTROL MODULE: AJ26 SC	Fig. 05.2
.....	Fig. 03.2	.....	Fig. 19.1
STARTER RELAY	Fig. 03.1	TRANSMISSION ELECTRICAL CONNECTOR: AJ26 N/A	Fig. 05.1
.....	Fig. 03.2	TRANSMISSION ELECTRICAL CONNECTOR: AJ26 SC	Fig. 05.2
STEERING COLUMN MOTORS	Fig. 11.2	TRANSMISSION ROTARY SWITCH	Fig. 05.1
STOP LAMP RELAY	Fig. 09.3	TRIP COMPUTER SWITCH PACK	Fig. 08.1
.....	Fig. 09.4	.....	Fig. 10.2
SUBWOOFER	Fig. 16.2	TRIP CYCLE SWITCH	Fig. 08.1
SUPPRESSION MODULE	Fig. 03.1	TRUNK ACCESSORY CONNECTOR	Fig. 18.1
.....	Fig. 03.2	TRUNK LAMPS	Fig. 10.1
SWITCH PACK – DRIVER DOOR	Fig. 10.2	TRUNK RELEASE ACTUATOR	Fig. 13.1
		.....	Fig. 13.2



TRUNK RELEASE SWITCHES Fig. 13.1
..... Fig. 13.2

TRUNK SWITCH Fig. 10.1
..... Fig. 13.1
..... Fig. 13.2
..... Fig. 13.3
..... Fig. 13.4

VACUUM SWITCHING VALVES Fig. 04.1
..... Fig. 04.2
..... Fig. 04.3
..... Fig. 04.5
..... Fig. 04.6

VALET SWITCH Fig. 13.1
..... Fig. 13.2
..... Fig. 13.3
..... Fig. 13.4

VANITY LAMPS Fig. 10.1
..... Fig. 10.1

VARIABLE STEERING CONVERTER Fig. 11.1

VARIABLE VALVE TIMING SOLENOID VALVES Fig. 04.1
..... Fig. 04.2

VENT ASSEMBLY Fig. 07.1

WASH / WIPE STALK Fig. 14.1

WHEEL SPEED SENSORS Fig. 06.1

WINDOW LIFT MOTORS Fig. 15.1
..... Fig. 15.2

WINDOW LIFT SWITCHES Fig. 15.1
..... Fig. 15.2

WINDSHIELD HEATER RELAYS Fig. 07.2

WINDSHIELD HEATERS Fig. 07.2

WINDSHIELD WASH PUMP AND FLUID LEVEL SENSOR Fig. 14.1

WIPER FAST / SLOW RELAY Fig. 14.1

WIPER MOTOR Fig. 14.1

WIPER RUN / STOP RELAY Fig. 14.1



Figure and Data Page Layout

Figure Pages

Each Figure represents a specific electrical system of the vehicle. The Figures are arranged numerically by system (**01 – Power Distribution**, **02 – Ground Distribution**, etc.) with variations in the system identified by a numeral following a decimal point (**01.1**, **01.2**, etc.). Refer to the Table of Contents for a complete list of the Figures.

The Figures **01 – Power Distribution** detail the distribution of power to each of the systems. Numbered reference symbols refer the user to a specific Figure and from a specific Figure back to the Power Distribution Figures. This method eliminates the need to include detailed Power Distribution information on each of the Figures. Similarly, the Figure **02 – Ground Distribution** details the ignition switched ground distribution. The reference symbols are defined on page 14.

Each Figure appears on a right-hand page with a corresponding Data page to the left. The Figure and Data pages are folding pages. The user must fold out both pages in order to access all the information provided.

Data Pages

The Data page includes information to assist the user in identifying and locating components, connectors and grounds. This information is supplemented by the illustrations in this front section of the book.

When network data is required for the understanding of a particular circuit, the user is directed to the Appendix.

Where circuits include a Control Module, Pin Out information is provided with values for "active" and "inactive" states. 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. "Active" means a load is applied or a switch is ON; "inactive" means a load is not applied or a switch is OFF. This information is provided to assist the user in understanding circuit operation and should be used FOR REFERENCE ONLY.



NOTE: In the examples shown on this page, an 'X' is used where a number would appear on an actual Figure.

Reference Symbols

Reference symbols are used for three purposes:

- to allow the user to complete the individual system circuit to power supply or ground
- to refer the user to a related circuit
- to identify control module inputs, outputs and signal grounds

Battery Power Supply

This symbol represents a direct battery power supply and refers the user to Figure 01.1, 01.2 or 01.3.

Ignition Switched Power Supply

This symbol represents ignition switched power supply and refers the user to Figure 01.1, 01.4 or 01.5.

The suffix I indicates auxiliary power. Power is supplied in ignition switch key positions I (AUXILIARY) and II (IGNITION).

The suffix II indicates ignition power. Power is supplied in ignition switch key positions II (IGNITION) and III (ENGINE CRANK).

The suffix E indicates engine management switched power. Power is supplied in ignition switch key positions II (IGNITION) and III (ENGINE CRANK) under ECM control.

Ignition Switched Ground

This symbol represents an ignition switched ground and refers the user to Figure 02.1.

This symbol without a suffix indicates CRANK. Ground is completed in ignition switch key position III (ENGINE CRANK).

The suffix I indicates auxiliary ground. Ground is completed in ignition switch key positions I (AUXILIARY) and II (IGNITION).

The suffix II indicates ignition ground. Ground is completed in ignition switch key positions II (IGNITION) and III (ENGINE CRANK).

Figure Number Reference Flag

This symbol refers the reader to a figure number only. It does not refer to a flag with the same number on a different figure.

As used in Figures 01.1 through 02.1, the reference flag refers the user to a continuation of the circuit. In this instance, the user matches the number to a Power Supply or Ground symbol to trace the circuit.

In most other cases, it is not necessary to refer to another figure for completion of a circuit, as the reference flags are used to indicate parallel circuits and circuits that share components. Most of the circuits where this situation occurs are overlapped to avoid the necessity for cross-referencing to another figure. Exceptions to this rule are instances where signals are transmitted to or received from other system circuits. When circuits are not overlapped, they are noted by (CIRCUIT CONTINUED).

BPM Because the Body Processor Module appears numerous times, the abbreviation BPM is used in the reference flags on Figures 01.2 and 02.1 in order to conserve space.

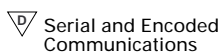
Control Module Input, Output, Data Link, Signal Ground and Network(s)



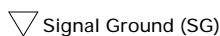
Input



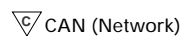
Output



Serial and Encoded Communications



Signal Ground (SG)



CAN (Network)

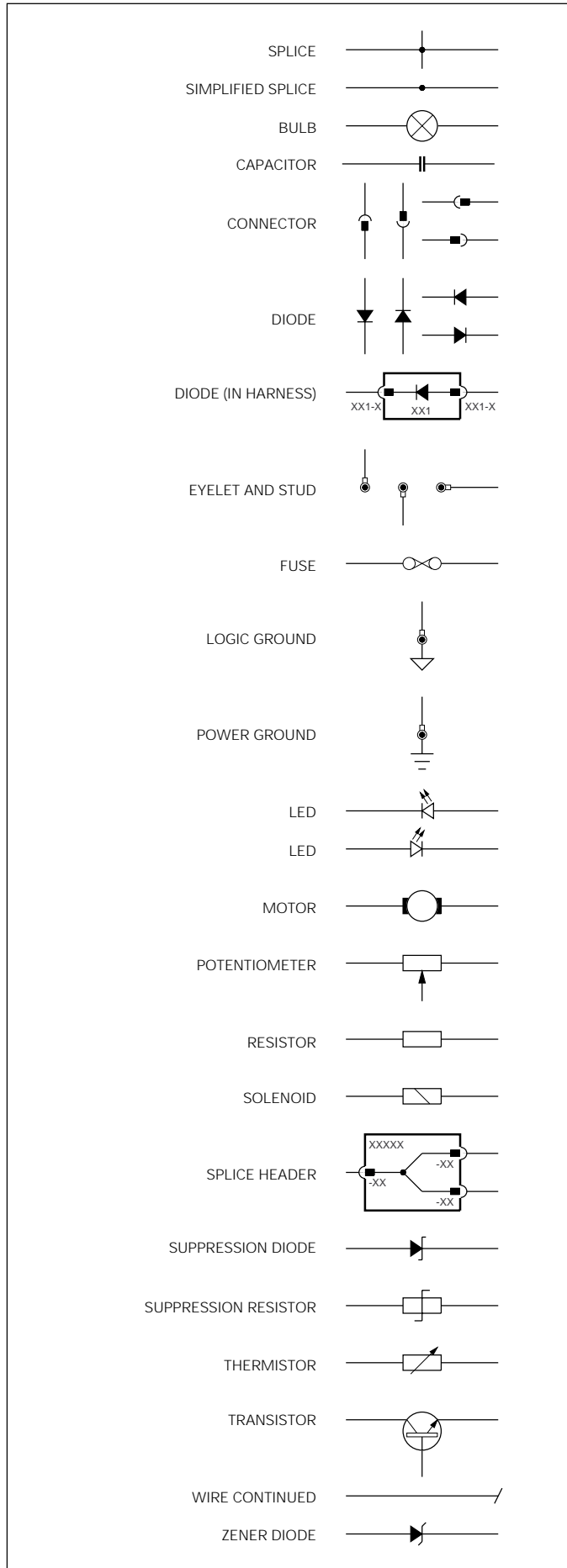


SCP Network

These six symbols are employed to assist the user in visualizing the 'logic' of circuits containing control modules. The symbols identify control module input, output, data link, signal ground and network pins. These symbols are also employed on the corresponding data page.



Wiring Symbols



Wiring Color Codes

N	Brown	O	Orange
B	Black	S	Slate
W	White	L	Light
K	Pink	U	Blue
G	Green	P	Purple
R	Red	BRD	Braid
Y	Yellow		

When a wire has two or more color code letters, the first letter indicates the main color and the subsequent letter(s) indicate the tracer color(s).

Wiring Harness Codes

Code	Description
AN	Generator link harness
BB	Rear seat motors and heaters harness
BC	Rear seat center console harness
BL	Bumper harness – LH front
BR	Bumper harness – RH front
BS	Rear seat link harness
BT	Trunk harness
CA	Cabin harness
CC	Center console harness
CF	Radiator cooling fan harness
DD	Driver door harness
EM	Engine management harness
FC	Fascia harness
FL	Axle harness – LH front
FP	Fuel tank pressure sensor link harness
FR	Axle harness – RH front
GB	Transmission harness
HP	Steering wheel horn switch harness
IC	In-car entertainment harness
IJ	Fuel injector harness – supercharged
LA	Axle harness – LH rear
LL	Power steering link harness
LS	Forward harness
PD	Passenger door harness
PI	Engine harness
RA	Axle harness – RH rear
RD	Rear driver door harness
RP	Rear passenger door harness
RT	Radio telephone harness
SC	Steering column switchgear harness
SH	Windshield heater link harness
SM-D	Driver seat harness
SM-P	Passenger seat harness
SR	Sliding roof motor link harness
ST	Main power harness
SW	Steering wheel harness

Code Numbering

When numbering connectors, grounds and splices, Jaguar Engineering uses a three-position format: CA001, CA002, etc. Because space is limited in this Electrical Guide, the codes have been shortened. Thus CA001-001 becomes CA1-1, CA002-001 becomes CA2-1, etc.



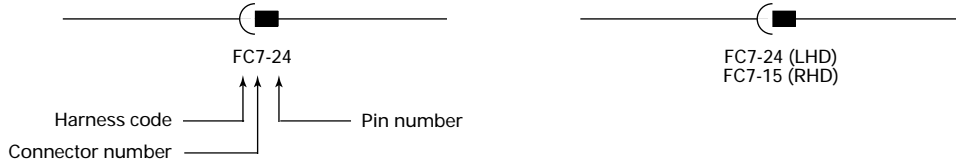
Harness Component Numbers

Connectors

HARNESS CODE + CONNECTOR NUMBER + PIN NUMBER

EXAMPLE: FC7-24 (pin number is separated by a dash)

Where the pin number differs from LHD to RHD, the connector number will be further identified by (LHD) or (RHD).

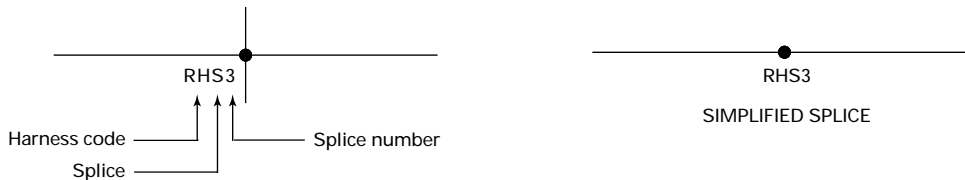


Splices

HARNESS CODE + S (SPLICE) + SPLICE NUMBER

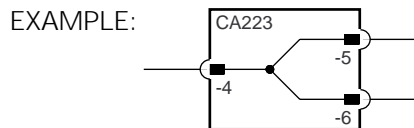
EXAMPLE: RHS3 (no dash is used)

NOTE: In order to avoid unnecessary circuit complication, multiple splices (more than two wires) within components, in wires leading from input components to multiple circuits and in harness 'ground' sides, are simplified so as not to show wires from other circuits.



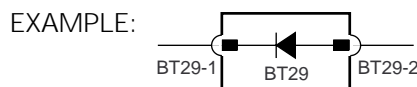
Splice Headers

Three non-serviceable splice headers are used in the system harness. Splice headers are depicted as components and identified by a connector number within the component. The splice header number appears at the upper left hand corner; pin numbers appear adjacent to each pin.



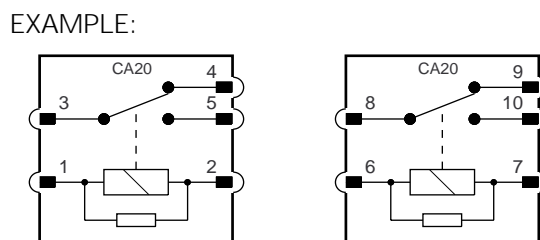
Diodes

Harness diodes occur at connectors and are depicted as components and identified by a connector number.



Relay Connectors

Relay connector numbers are shown within the relay. The connector number is shown in the upper portion of the relay; the pin (terminal) number is shown adjacent to the pin. Certain relays are paired and share a modular connector. In this instance, the connector number remains the same for both relays while the pin numbers of the second relay are identified by numbers 6 – 10.



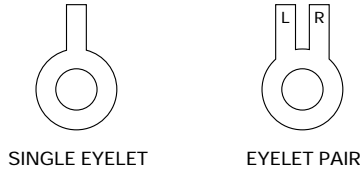


Grounds

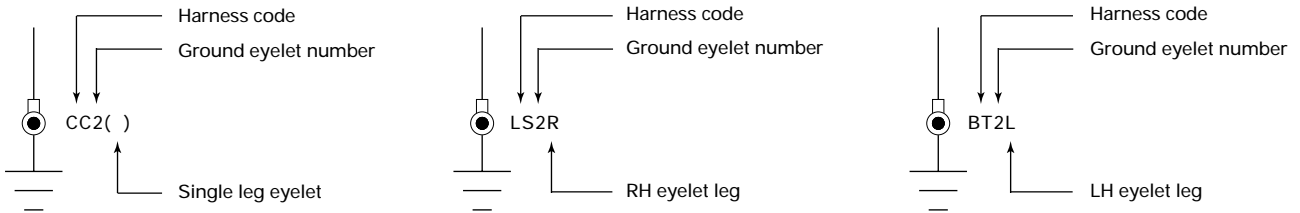
HARNESS CODE + GROUND EYELET NUMBER + EYELET DESIGNATION (L or R where applicable)

Eyelet designation

Two eyelet variations are used: a single eyelet and an eyelet pair. The single eyelet has a single 'leg' and can be identified by the absence of a suffix. The eyelet pair has two 'legs', identified by the suffix L (left) or R (right).



EXAMPLES:



Where the ground designation differs from LHD to RHD, the RHD ground is shown in parentheses. If the ground designation is the same for LHD and RHD, only one ground designation is used.

EXAMPLES:

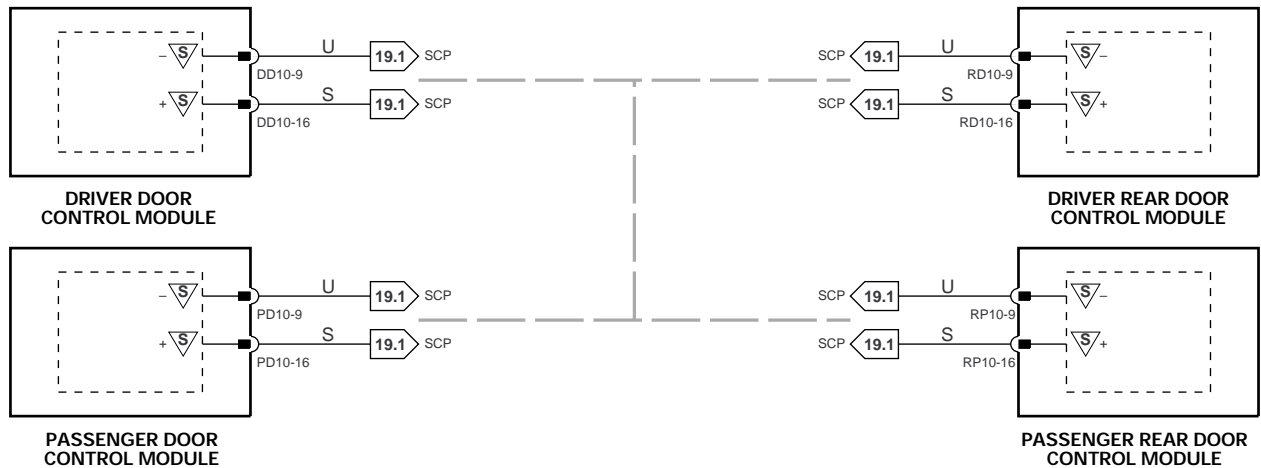


NOTE: The XJ Series ground studs are not identified by code. Therefore, multiple eyelets with different harness codes may be connected to a ground stud.

SCP Network

Due to circuit complexity and because space is limited, the SCP Network is, in most cases, shown as a broken grey line indicating that there is network communication between the depicted control modules. Refer to Fig. 19.1 for circuit details.

EXAMPLE:

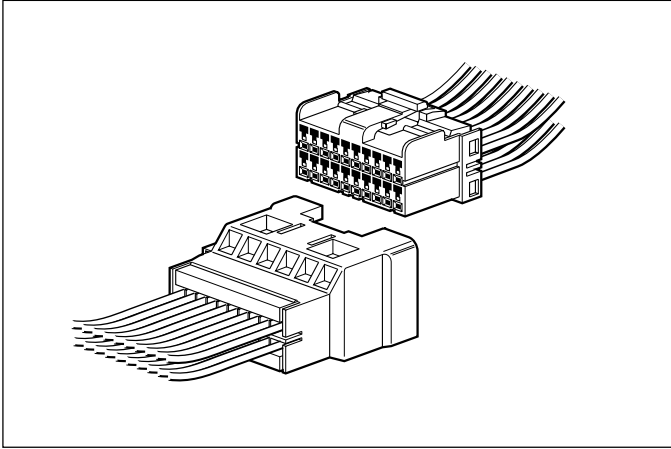




The following connectors are the common harness-to-harness connectors used throughout the vehicle.

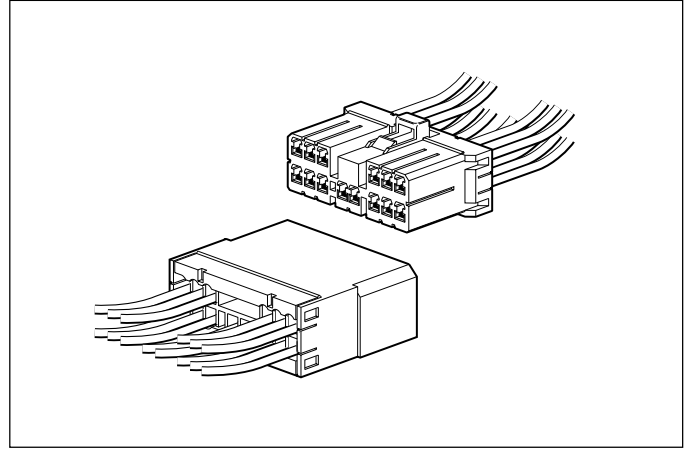
Multilock 040

Low current (harness and 'direct' connection connector).



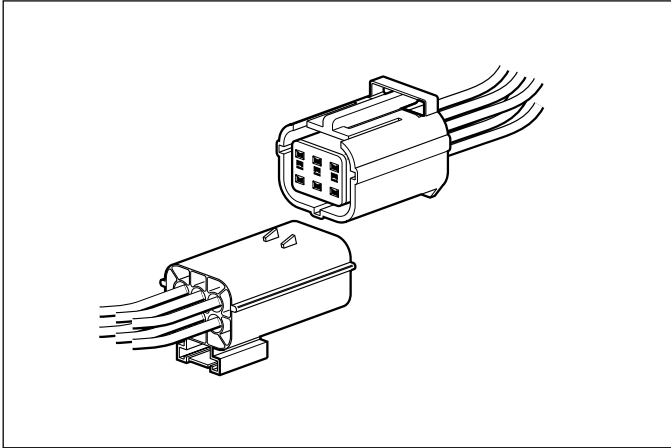
Multilock 070

High current (harness and 'direct' connection connector).



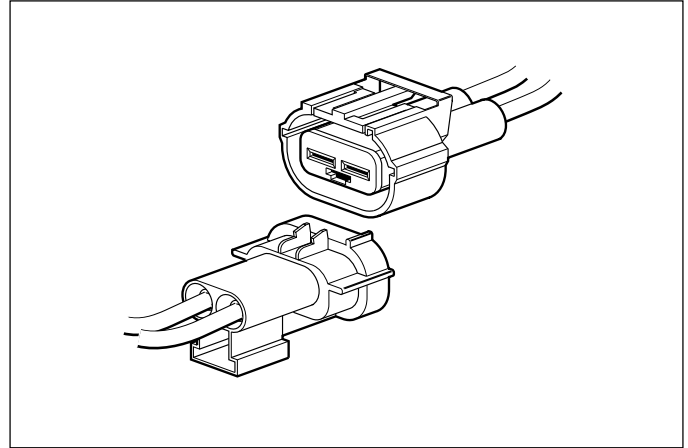
Econoseal III LC

Low current sealed connector.



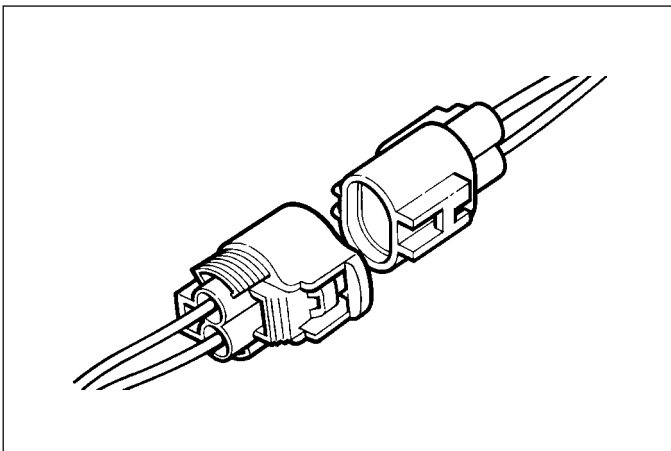
Econoseal III HC

High current sealed connector.



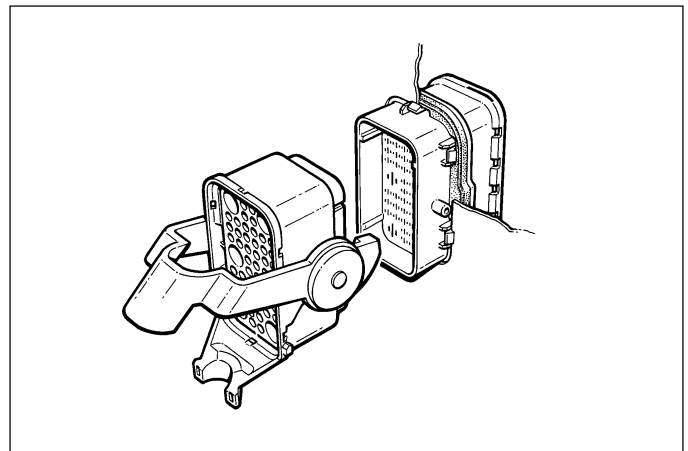
Ford Card

Used for SRS only.



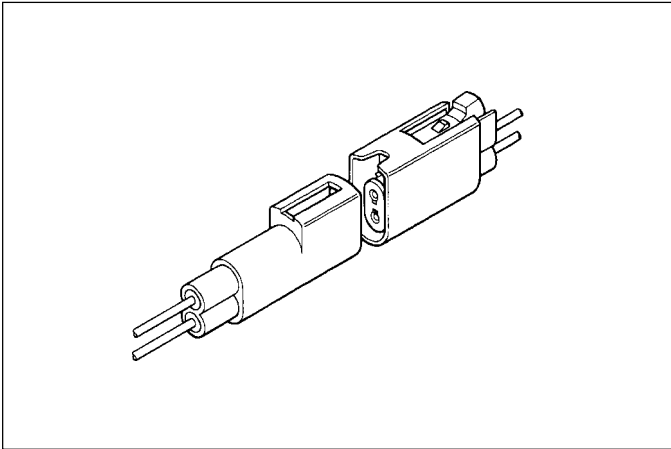
Through Panel

54-way connector.

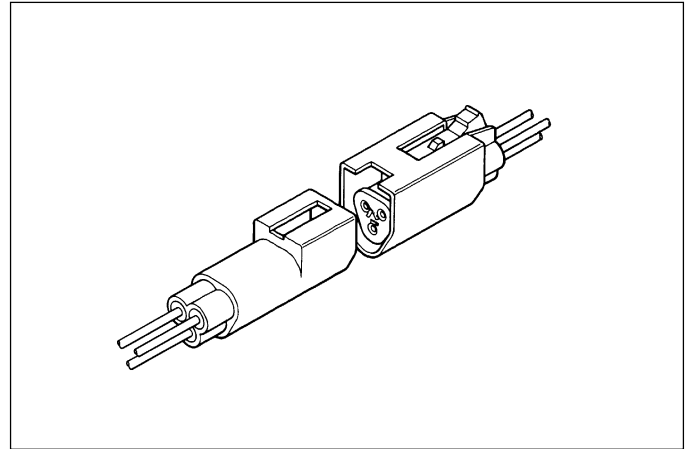




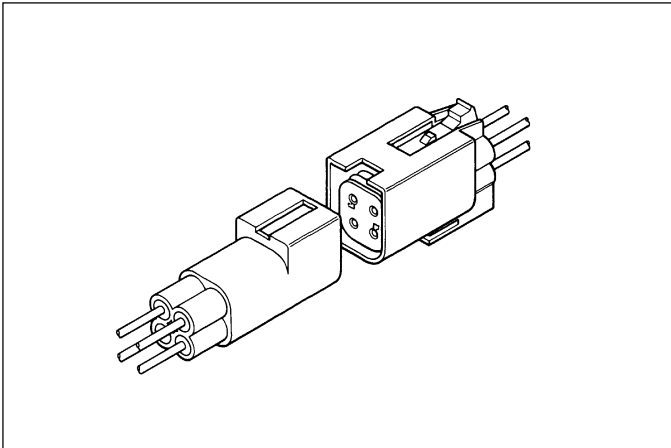
Augat 1.6
2-way connector.



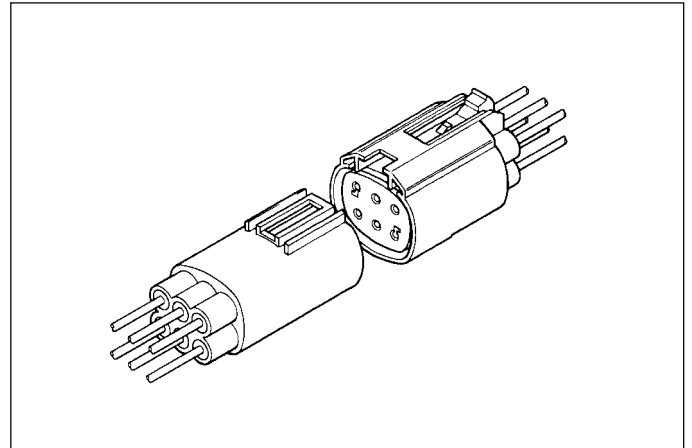
Augat 1.6
3-way connector.



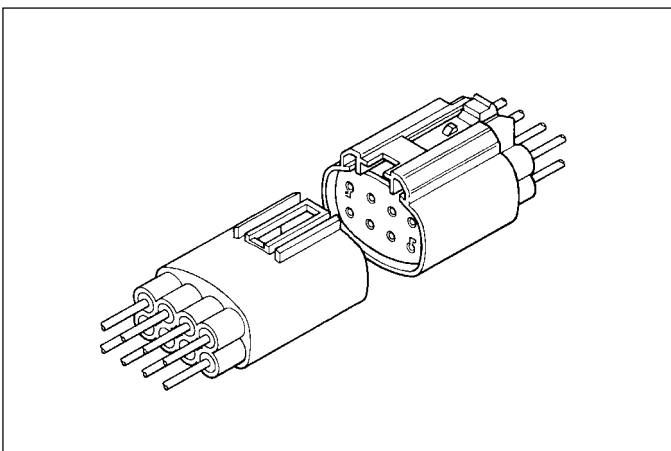
Augat 1.6
4-way connector.

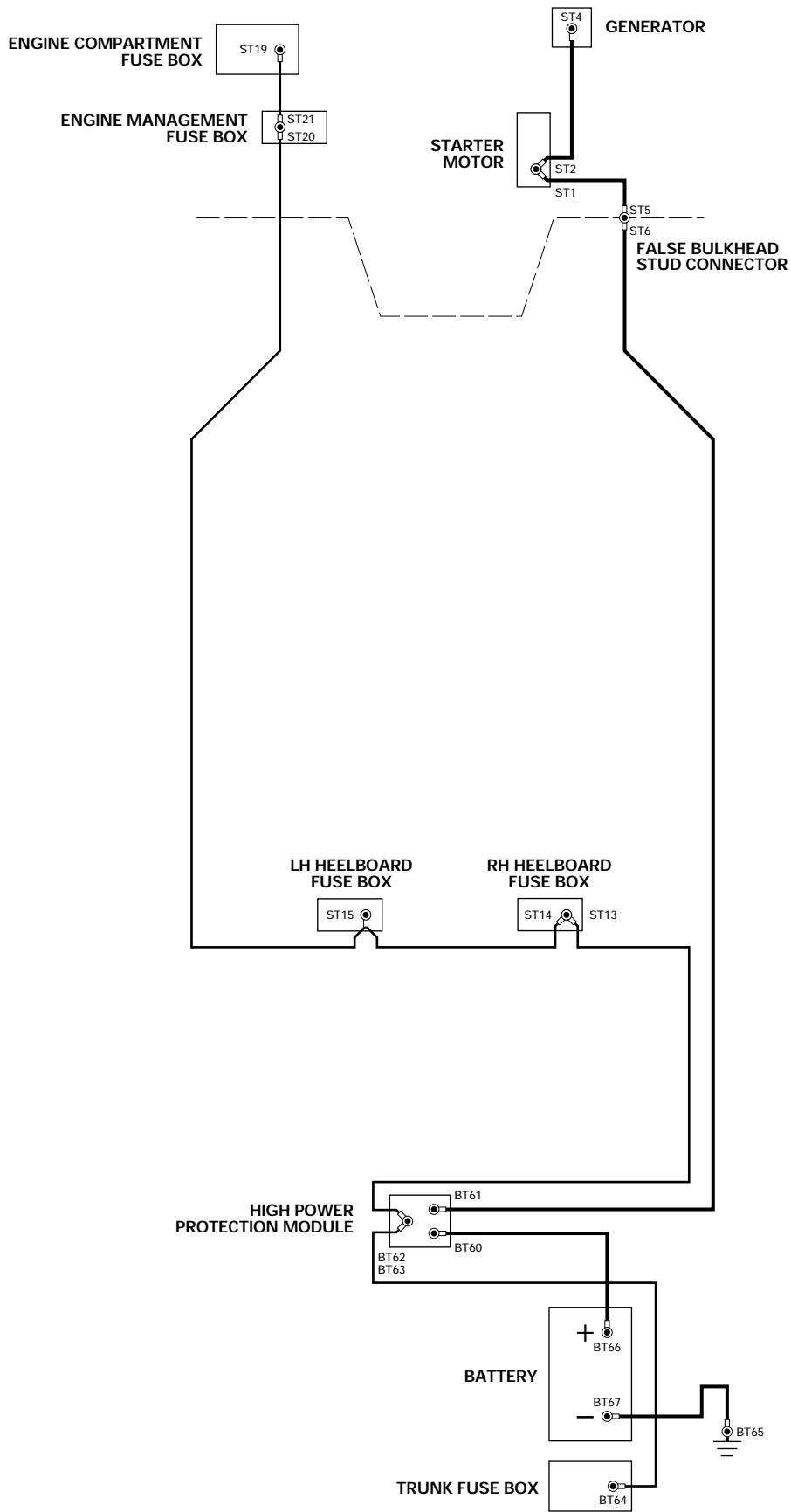


Augat 1.6
6-way connector.



Augat 1.6
8-way connector.

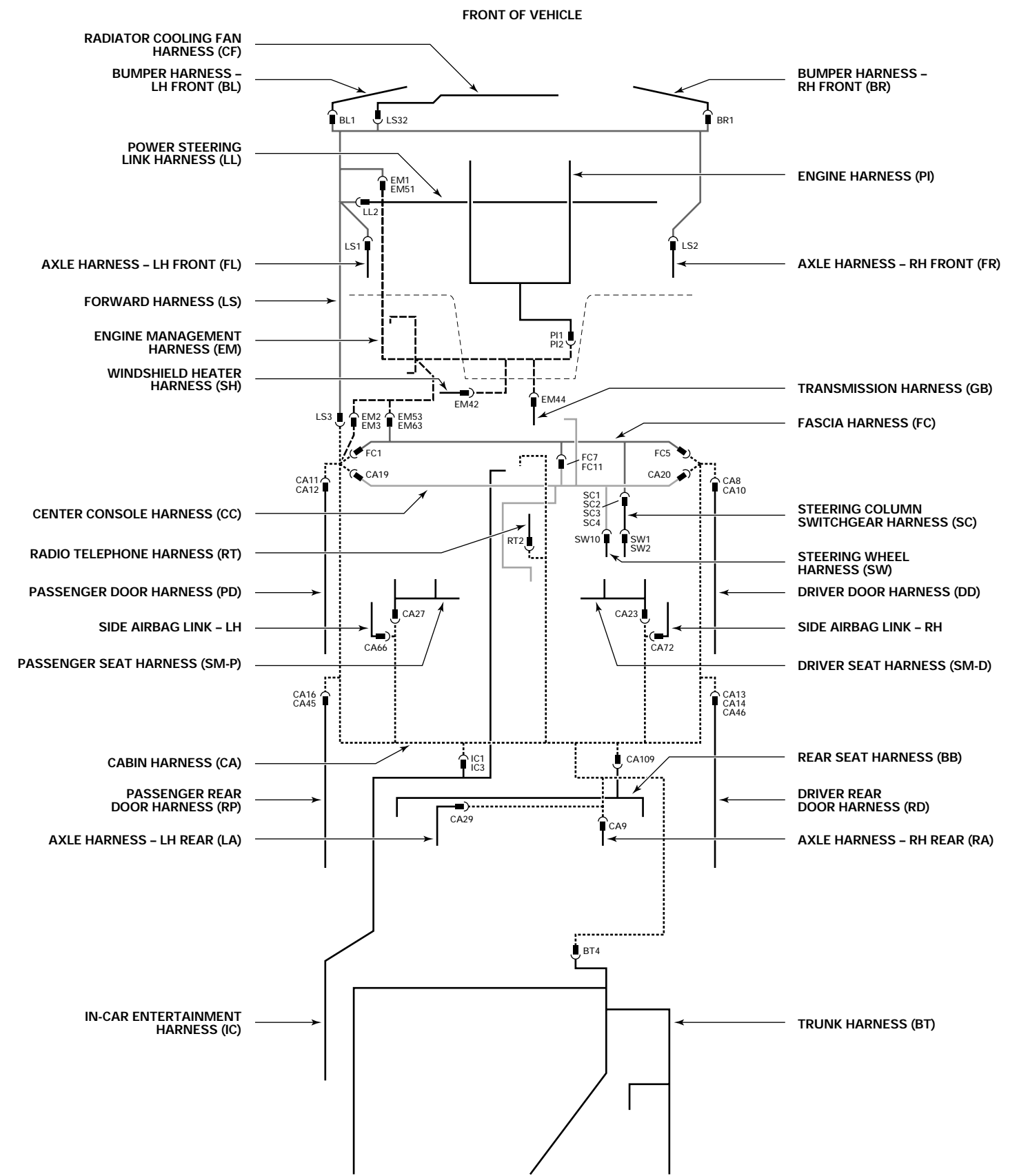
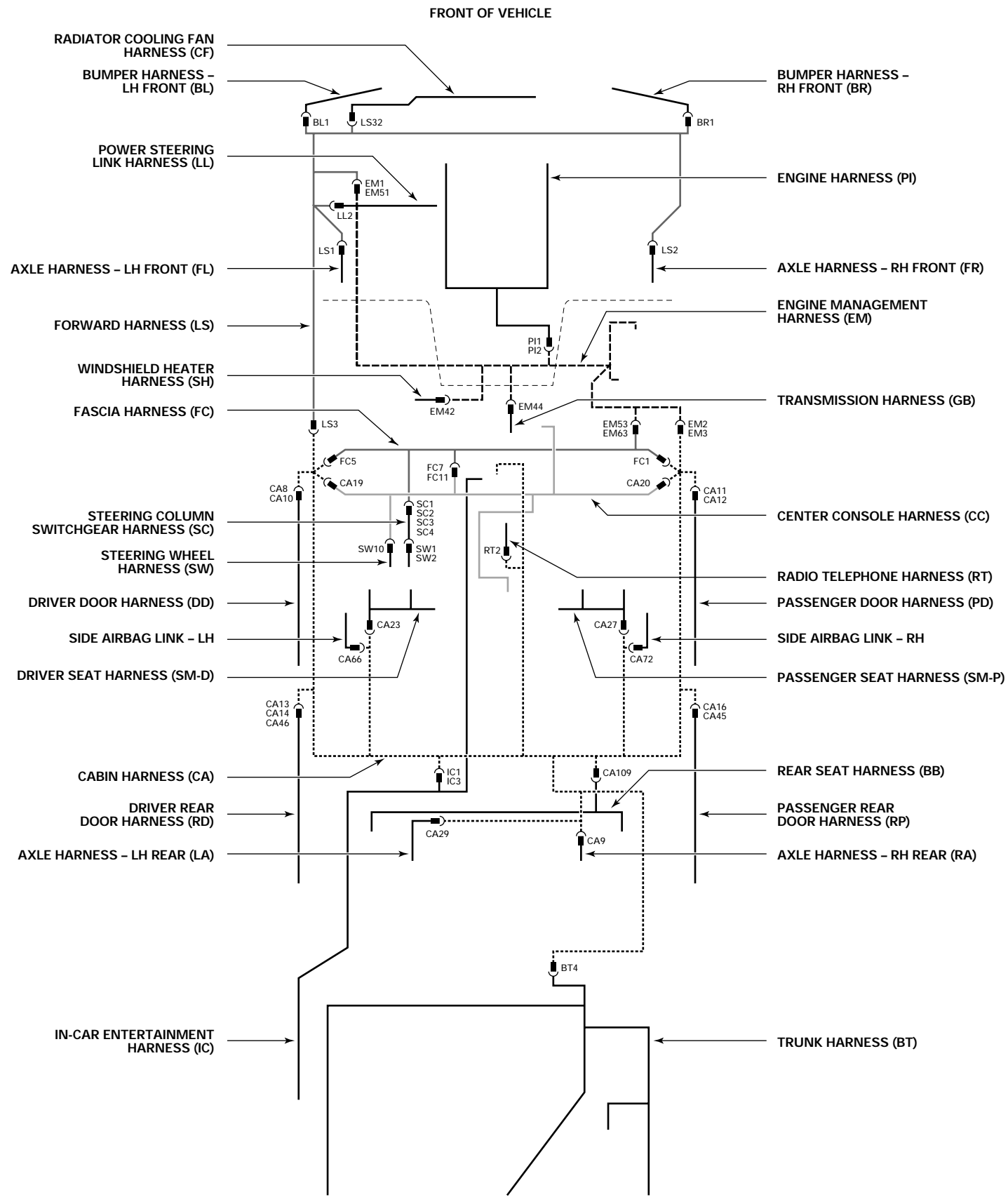


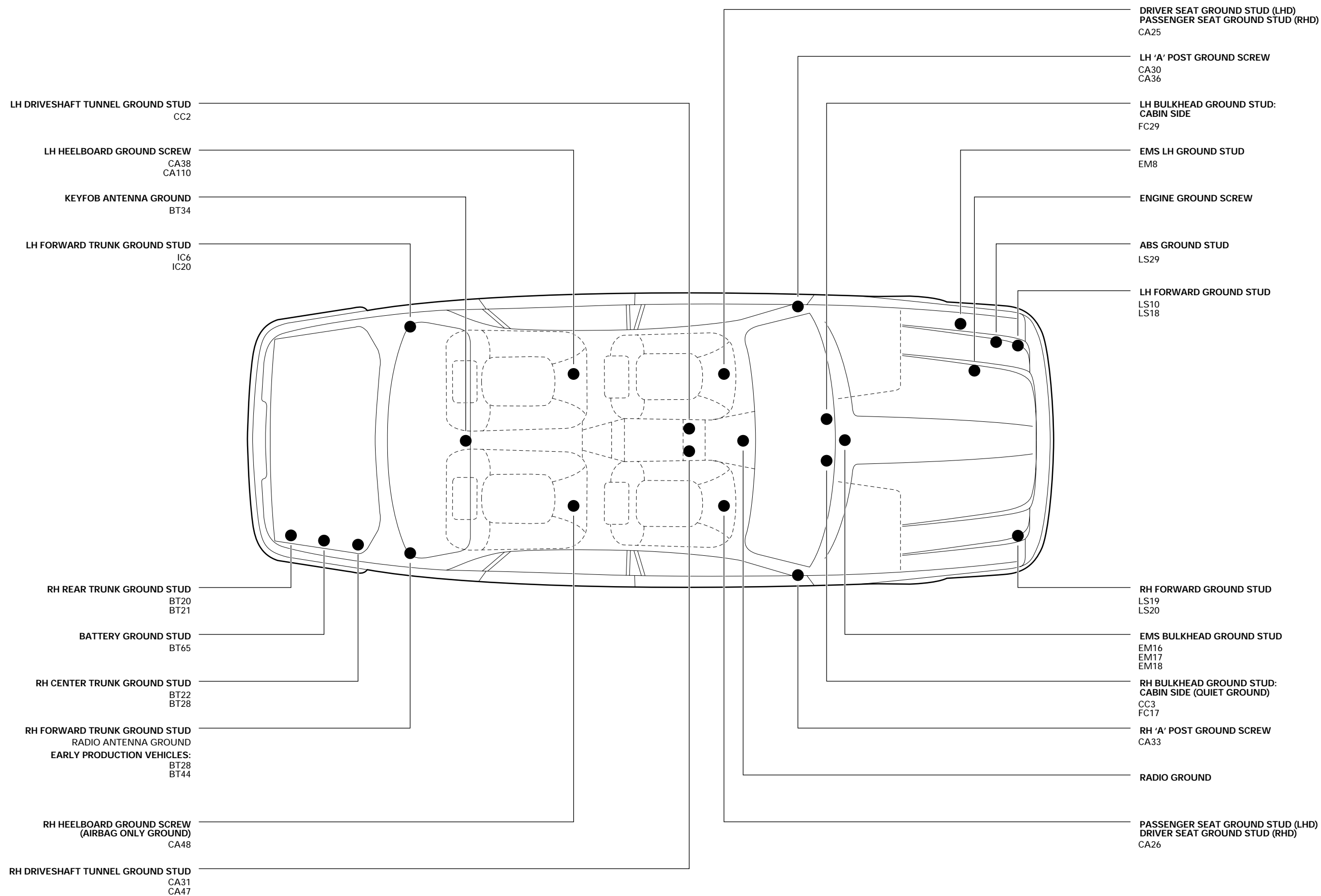




LHD

RHD

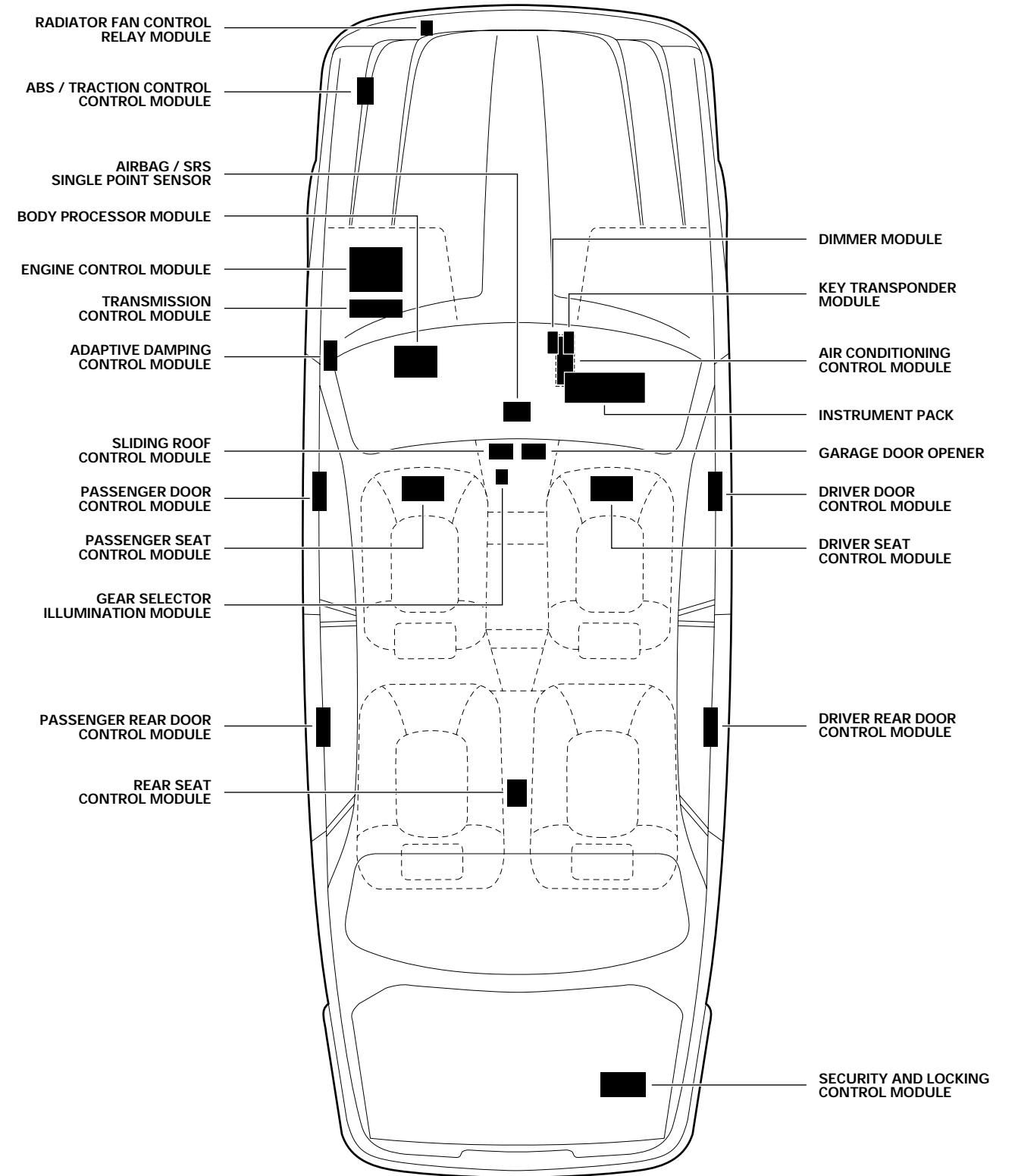
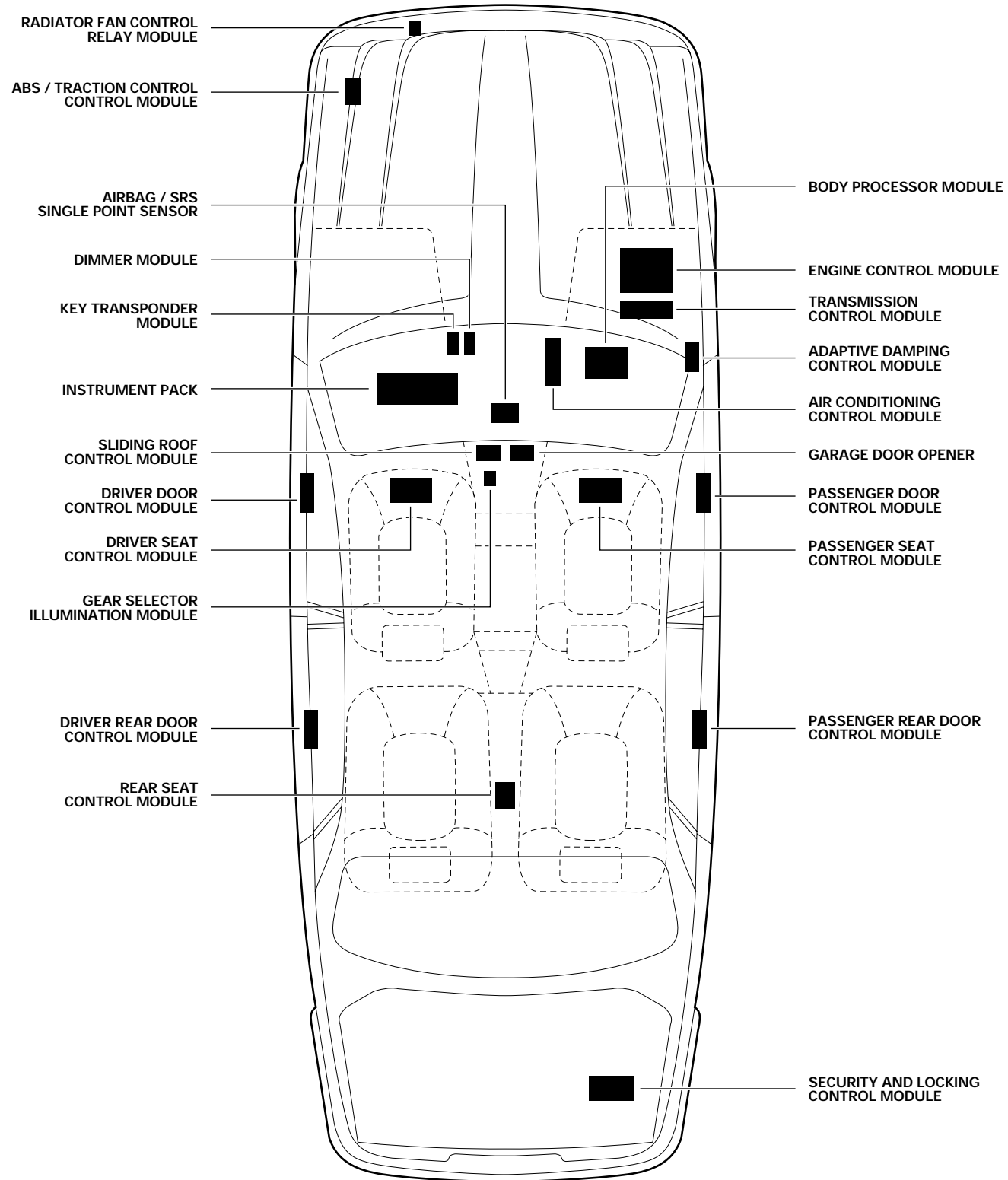






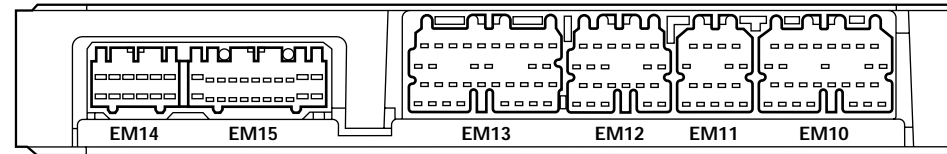
LHD

RHD





ENGINE CONTROL MODULE



* EARLY PRODUCTION VEHICLES: EM13-12 - PY; EM13-13 - RW

4.0 N/A NAS

EM14 / 12-WAY / WHITE

6	5	4	3	2	1
R	R	BK	WR	GY	GY
12	11	10	9	8	7
G	G	B	B	B	B

EM15 / 22-WAY / WHITE

11	10	9	8	7	6	5	4	3	2	1
B	—	RY	RG	BU	BW	BY	BO	PN	PU	PS
22	21	20	19	18	17	16	15	14	13	12
B	—	—	—	BS	BN	BG	BP	—	—	B

EM13 / 34-WAY / GREY

10	9	8	7	6	5	4	3	2	1
—	—	—	—	—	—	OK	SP	W	KN
16	15	14	13*	12*	11	—	—	—	—
WU	W	GR	PY	RW	PW	—	—	—	—
26	25	24	23	22	21	20	19	18	17
LGU	LGW	LGO	LGK	UB	—	B	Y	S	N
34	33	32	31	30	29	28	27	—	—
LGP	LGS	LGR	LGY	—	O	P	BG	—	—

EM12 / 22-WAY / GREY

6	5	4	3	2	1
RW	WU	—	—	—	—
11	10	9	8	7	—
—	RY	SG	—	SLG	—
17	16	15	14	13	12
—	U	N	R	G	GY
22	21	20	19	18	—
BP	—	—	BY	BY	—

EM11 / 16-WAY / GREY

4	3	2	1
WU	P	—	SR
7	6	5	—
RG	—	GO	SG
11	10	9	8
U	G	UY	UW
16	15	14	13
K	R	BG	BY

EM10 / 28-WAY / GREY

8	7	6	5	4	3	2	1
—	—	O	WK	UN	ULG	UG	WR
13	12	11	10	9	—	—	—
O	K	—	PG	—	US	NO	—
21	20	19	18	17	16	15	14
UW	BG	—	—	Y	PK	RU	OU
28	27	26	25	24	23	22	—
Y	G	Y	G	—	BK	—	—

4.0 N/A ROW; 3.2

EM14 / 12-WAY / WHITE

6	5	4	3	2	1
R	R	BK	WR	GY	GY
12	11	10	9	8	7
G	G	B	B	B	B

EM15 / 22-WAY / WHITE

11	10	9	8	7	6	5	4	3	2	1
B	—	RY	RG	BU	BW	BY	BO	PN	PU	PS
22	21	20	19	18	17	16	15	14	13	12
B	—	—	—	BS	BN	BG	BP	—	—	B

EM13 / 34-WAY / GREY

10	9	8	7	6	5	4	3	2	1
—	—	—	—	—	—	OK	SP	W	KN
16	15	14	13*	12*	11	—	—	—	—
WU	W	GR	PY	RW	PW	—	—	—	—
26	25	24	23	22	21	20	19	18	17
LGU	LGW	LGO	LGK	UB	—	B	Y	S	N
34	33	32	31	30	29	28	27	—	—
LGP	LGS	LGR	LGY	—	O	P	BG	—	—

EM12 / 22-WAY / GREY

6	5	4	3	2	1
RW	WU	—	—	—	—
11	10	9	8	7	—
—	RY	SG	—	SLG	—
17	16	15	14	13	12
—	U	N	R	G	GY
22	21	20	19	18	—
BP	—	—	BY	BY	—

EM11 / 16-WAY / GREY

4	3	2	1
WU	P	—	SR
7	6	5	—
RG	—	GO	SG
11	10	9	8
U	G	UY	UW
16	15	14	13
K	R	BG	BY

EM10 / 28-WAY / GREY

8	7	6	5	4	3	2	1
—	—	O	WK	UN	ULG	UG	WR
13	12	11	10	9	—	—	—
O	K	—	PG	—	US	NO	—
21	20	19	18	17	16	15	14
UW	BG	—	—	Y	PK	RU	OU
28	27	26	25	24	23	22	—
Y	G	Y	G	—	BK	—	—

4.0 SC NAS

EM14 / 12-WAY / WHITE

6	5	4	3	2	1
R	R	BK	WR	GY	GY
12	11	10	9	8	7
G	G	B	B	B	B

EM15 / 22-WAY / WHITE

11	10	9	8	7	6	5	4	3	2	1
B	—	—	—	BU	BW	BY	BO	PN	PU	PS
22	21	20	19	18	17	16	15	14	13	12
B	—	—	—	BS	BN	BG	BP	—	—	B

EM13 / 34-WAY / GREY

10	9	8	7	6	5	4	3	2	1
—	—	—	—	—	—	OK	SP	W	KN
16	15	14	13*	12*	11	—	—	—	—
WU	W	GR	PY	RW	PW	—	—	—	—
26	25	24	23	22	21	20	19	18	17
LGU	LGW	LGO	LGK	UB	—	B	Y	S	N
34	33	32	31	30	29	28	27	—	—
LGP	LGS	LGR	LGY	—	O	P	BG	—	—

EM12 / 22-WAY / GREY

6	5	4	3	2	1
RW	WU	YR	YN	YG	YU
11	10	9	8	7	—
—	RY	SG	—	SLG	UP
17	16	15	14	13	12
—	U	N	R	G	GY
22	21	20	19	18	—
BP	—	—	BY	BY	—

EM11 / 16-WAY / GREY

4	3	2	1
WU	P	—	SR
7	6	5	—
RG	—	GO	SG
11	10	9	8
U	G	UY	UW
16	15	14	13
K	R	BG	BY

EM10 / 28-WAY / GREY

8	7	6	5	4	3	2	1
—	—	O	WK	UN	ULG	UG	WR
13	12	11	10	9	—	—	—
O	K	—	PG	—	US	NO	—
21	20	19	18	17	16	15	14
UW	BG	—	—	Y	PK	RS	OU
28	27	26	25	24	23	22	—
Y	G	Y	G	—	BK	—	—

4.0 SC ROW

EM14 / 12-WAY / WHITE

6	5	4	3	2	1
R	R	BK	WR	GY	GY
12	11	10	9	8	7
G	G	B	B	B	B

EM15 / 22-WAY / WHITE

11	10	9	8	7	6	5	4	3	2	1
B	—	—	—	BU	BW	BY	BO	PN	PU	PS
22	21	20	19	18	17	16	15	14	13	12
B	—	—	—	BS	BN	BG	BP	—	—	B

EM13 / 34-WAY / GREY

10	9	8	7	6	5	4	3	2	1
—	—	—	—	—	—	OK	SP	W	KN
16	15	14	13*	12*	11	—	—	—	—
WU	W	GR	PY	RW	PW	—	—	—	—
26	25	24	23	22	21	20	19	18	17
LGU	LGW	LGO	LGK	UB	—	B	Y	S	N
34	33	32	31	30	29	28	27	—	—
LGP	LGS	LGR	LGY	—	O	P	BG	—	—

EM12 / 22-WAY / GREY

6	5	4	3	2	1
RW	WU	YR	YN	YG	YU
11	10	9	8	7	—
—	RY	SG	—	SLG	UP
17	16	15	14	13	12
—	U	N	R	G	GY
22	21	20	19	18	—
BP	—	—	BY	BY	—

EM11 / 16-WAY / GREY

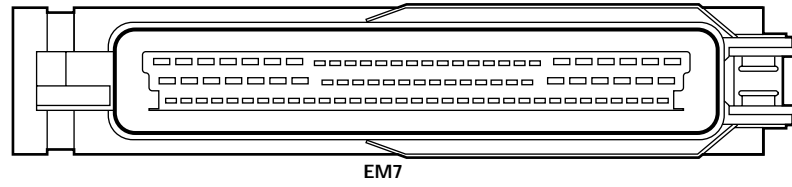
4	3	2	1
WU	P	—	SR
7	6	5	—
RG	—	GO	SG
11	10	9	8
U	G	UY	UW
16	15	14	13
K	R	BG	BY

EM10 / 28-WAY / GREY

8	7	6	5	4	3	2	1
—	—	O	WK	UN	ULG	UG	WR
13	12	11	10	9	—	—	—
O	K	—	PG	—	US	NO	—
21	20	19	18	17	16	15	14
UW	BG	—	—	Y	PK	RS	OU
28	27	26	25	24	23	22	—
Y	G	Y	G	—	BK	—	—



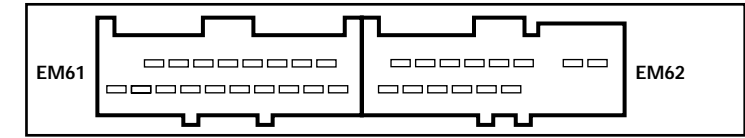
TRANSMISSION CONTROL MODULE: AJ26 N/A



EM7 / 88-WAY / BLACK

28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
BY	—	NR	—	—	BRD	UY	BU	—	—	BS	—	U	BRD	N	US	RP	—	—	W	RB	—	B	OG	OK	—	RS	OU					
55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29						
WB	WB	RU	RY	OB	—	—	—	—	—	RG	R	—	G	—	—	—	—	Y	S	—	B	YP	YU	—	YB	OR						
88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56
—	—	Y	G	—	Y	G	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

TRANSMISSION CONTROL MODULE: AJ26 SC



EM61 / 18-WAY / BLACK

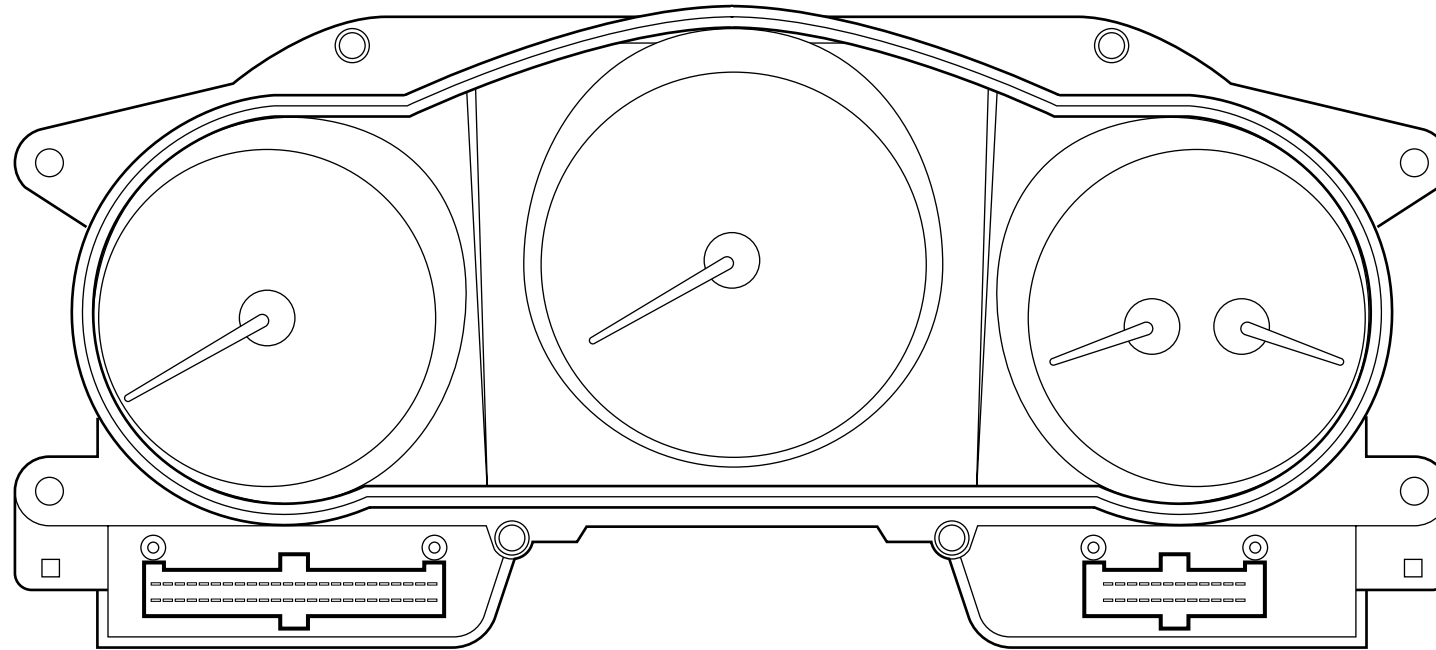
23	24	25	26	27	28	29	30		
—	—	LGB	LGU	LGP	LGN	WB	B		
1	2	3	4	5	6	7	8	9	10
YU	BS	P	—	—	—	—	—	—	—

EM62 / 14-WAY / BLACK

33	34	35	36	37	38
B	BY	BU	BO	BN	BR
12	13	14	15	16	17
BG	BW	BK	BLG	BP	BS

L	H
G	Y

INSTRUMENT PACK



FC24

FC25

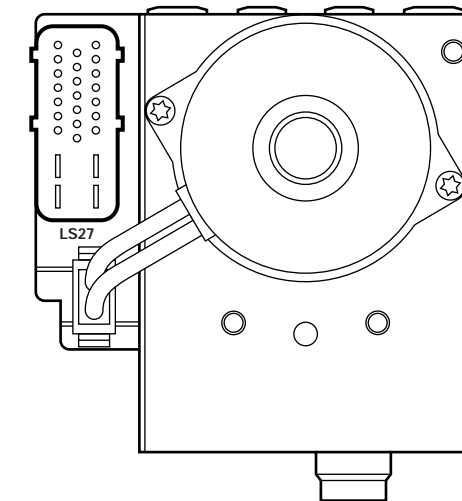
FC24 / 48-WAY / BLACK

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BK	WG	—	—	—	SO	—	—	—	SU	—	—	UY	R	—	—	—	—	S	U	—	—	Y	Y
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
—	B	RO	—	—	—	—	—	BR	—	Y	O	—	—	—	—	—	—	—	—	—	G	G	

FC25 / 24-WAY / BLACK

1	2	3	4	5	6	7	8	9	10	11	12
—	—	PY	SG	OU	UB	OB	—	—	—	—	—
13	14	15	16	17	18	19	20	21	22	23	24
BW	RW	—	YW	—	—	OS	UW	RLG	SW	OP	—

ABS / TRACTION CONTROL CONTROL MODULE



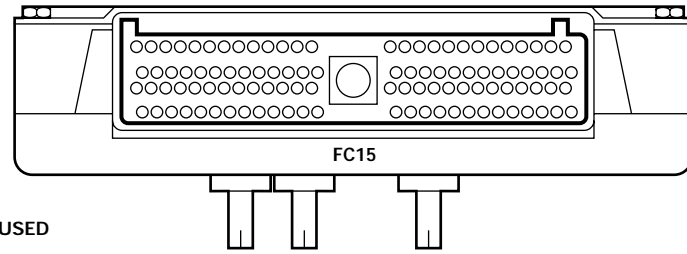
LS27 / 25-WAY / BLACK

17	18	19	20	21	22	23	24	25
W	R	UP	WU	P	U	—	B	NY
10	11	12	13	14	15	16	8	9
—	—	—	UB	R	G	RY	B	NR
1	2	3	4	5	6	7	—	—
UO	US	S	G	Y	Y	O	—	—

TOP



BODY PROCESSOR MODULE



* NAS VEHICLES: FC15-56 NOT USED

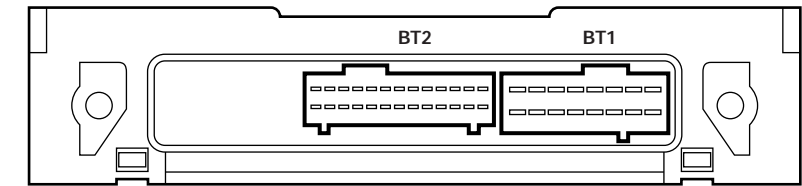
FC15 / 104-WAY / GREY (LHD)

79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
NG	NB	GR	GR	GB	U	S	OP	SK	YG	YW	BK	BK	SU	YK	LGO	RS	PW	—	—	PN	BR	PW	NB	—	NY
53	54	55	56*	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
RK	RB	SP	UM	GR	SB	PY	RY	KG	—	SG	—	—	PU	UR	US	OK	GS	SR	YU	—	RW	GR	GK	RG	PG
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
YK	RW	—	U	GB	WN	WY	LGK	OU	—	LGR	OR	Y	WU	RW	UY	WLG	OY	UG	YB	YLG	OG	GO	GY	RW	BS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
RY	GY	GK	GU	SO	YW	—	—	LGU	RW	YB	OP	—	UB	WO	RY	OY	YS	BLG	OG	SO	—	—	NW	B	YG

FC15 / 104-WAY / GREY (RHD)

79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
NG	NB	GR	GR	GB	U	S	OP	SK	YG	YW	BK	BK	SU	YK	LGO	RS	PW	—	—	PN	BR	PW	NB	—	NY
53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
RK	RB	SP	UM	GR	SB	PY	RY	KG	—	SG	—	—	PU	UR	US	OK	GS	SR	YU	—	RW	GR	GK	RG	PG
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
YK	RW	—	U	GB	WN	WY	LGK	OU	—	LGR	OR	Y	WU	RW	UY	WLG	OY	UG	YB	YLG	OG	GO	GY	RW	BS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
RY	GY	GK	GU	SO	YW	—	—	LGU	RW	YB	OP	—	UB	WO	RY	OY	YS	BLG	OG	SO	—	—	NW	B	YG

SECURITY AND LOCKING CONTROL MODULE



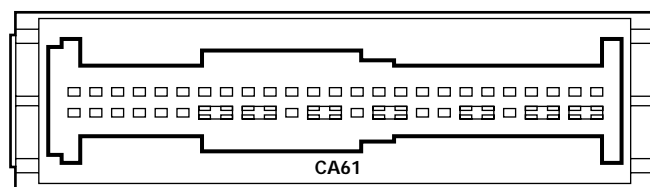
BT2 / 26-WAY / BLACK

13	12	11	10	9	8	7	6	5	4	3	2	1
—	—	—	—	—	LGS	—	GW	RY	—	—	—	US
26	25	24	23	22	21	20	19	18	17	16	15	14
YO	—	—	—	—	—	—	—	—	—	—	—	—

BT1 / 16-WAY / BLACK

8	7	6	5	4	3	2	1
S	RO	NK	YW	OG	UW	—	—
16	15	14	13	12	11	10	9
U	NY	BK	BK	—	—	—	UB

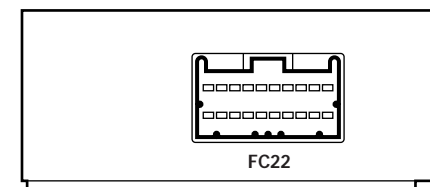
AIRBAG / SRS SINGLE POINT SENSOR



CA61 / 50-WAY / YELLOW

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	SO	8	7	6	5	4	3	2	1
R	R	S	S	P	P	YR	Y	YU	Y	—	YR	Y	—	YU	Y	6	—	YR	BK	WK	N	U	N	U
50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
—	—	—	—	—	—	—	—	—	—	Y	—	—	—	—	—	—	—	—	—	—	—	—	—	—

KEY TRANSPONDER MODULE



FC22 / 20-WAY / GREEN

10	9	8	7	6	5	4	3	2	1
R	SU	OG	OR	O	U	NR	BRD	BRD	—
20	19	18	17	16	15	14	13	12	11
RB	RW	UW	Y	O	UB	WO	WN	BK	SO

ADAPTIVE DAMPING CONTROL MODULE

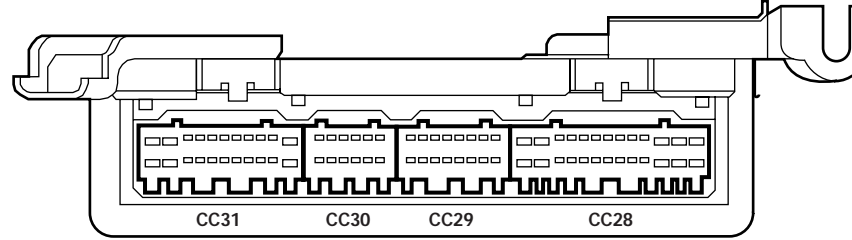


EM68 / 35-WAY / BLACK

19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
—	PB	UB	RB	—	OB	U	US	NS	K	—	OS	OW	OW	OY	OY	—	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
SO	—	UW	—	—	—	—	—	—	O	WK	—	OB	OG	OP	—	—	B



AIR CONDITIONING CONTROL MODULE



CC31 / 22-WAY / GREY

12	13	14	15	16	17	18	19	20	21	22
WR	B	B	GW	OU	PG	LGW	BW	BK	O	—
1	2	3	4	5	6	7	8	9	10	11
WP	GY	WN	WU	NY	PY	UG	P	UN	K	—

CC30 / 12-WAY / GREY

7	8	9	10	11	12
SY	SR	—	—	UB	KU
1	2	3	4	5	6
ULG	S	SG	—	OY	UG

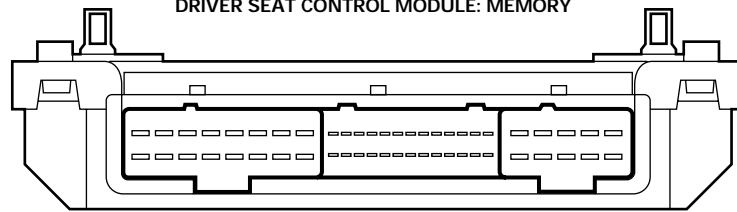
CC29 / 16-WAY / GREY

9	10	11	12	13	14	15	16
—	OR	YG	—	UY	—	UK	GP
1	2	3	4	5	6	7	8
OP	RG	YW	—	SU	SG	US	GO

CC28 / 26-WAY / GREY

14	15	16	17	18	19	20	21	22	23	24	25	26
—	—	LGN	RW	LGP	RU	SR	Y	NR	—	—	UR	GU
1	2	3	4	5	6	7	8	9	10	11	12	13
RLG	U	UY	PS	KW	RY	PR	PY	RB	—	—	UW	UO

DRIVER SEAT CONTROL MODULE: MEMORY



SM1-D SM2-D SM3-D

SM1-D / 16-WAY / BLACK

9	10	11	12	13	14	15	16
PY	PW	KY	KW	UW	UY	RY	RW
1	2	3	4	5	6	7	8
RO	RS	US	UO	GS	GO	PS	PO

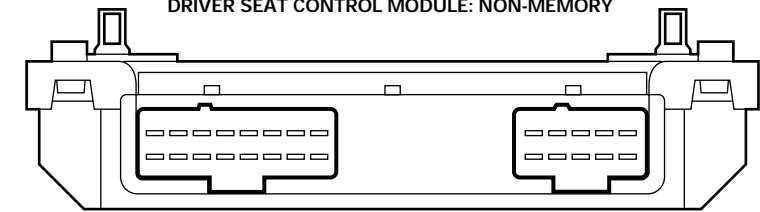
SM2-D / 26-WAY / BLACK

14	15	16	17	18	19	20	21	22	23	24	25	26
WB	WB	—	—	W	W	—	—	—	—	—	—	—
1	2	3	4	5	6	7	8	9	10	11	12	13
WB	WB	—	—	W	W	—	WP	WU	WO	WR	WY	—

SM3-D / 10-WAY / BLACK

6	7	8	9	10
GW	—	GY	S	U
1	2	3	4	5
BK	B	KS	KO	NK

DRIVER SEAT CONTROL MODULE: NON-MEMORY



SM1-D SM3-D

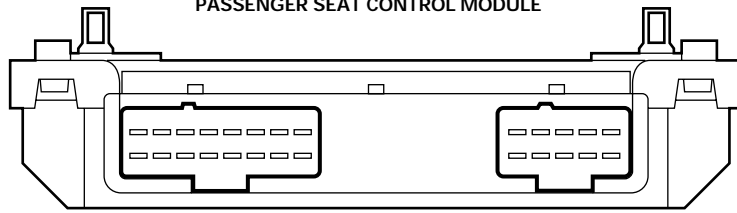
SM1-D / 16-WAY / BLACK

9	10	11	12	13	14	15	16
PY	PW	KY	KW	UW	UY	RY	RW
1	2	3	4	5	6	7	8
RO	RS	US	UO	GS	GO	PS	PO

SM3-D / 10-WAY / BLACK

6	7	8	9	10
GW	—	GY	S	U
1	2	3	4	5
BK	B	KS	KO	NK

PASSENGER SEAT CONTROL MODULE



SM1-P SM3-P

SM1-P / 16-WAY / BLACK

9	10	11	12	13	14	15	16
PY	PW	KY	KW	UW	UY	RY	RW
1	2	3	4	5	6	7	8
RO	RS	US	UO	GS	GO	PS	PO

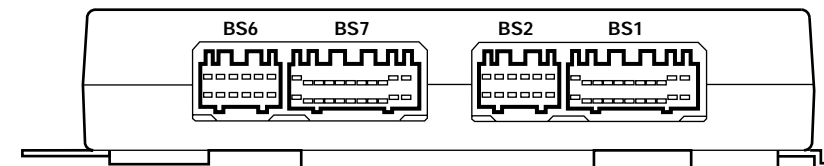
SM3-P / 10-WAY / BLACK

6	7	8	9	10
GW	—	GY	S	U
1	2	3	4	5
—	B	KS	KO	NK

BS6 / 12-WAY / WHITE

6	5	4	3	2	1
GO	GS	PO	PS	OU	OS
12	11	10	9	8	7
GR	GW	OW	B	PW	PR

REAR SEAT CONTROL MODULE



BS7 / 22-WAY / WHITE

11	10	9	8	7	6	5	4	3	2	1
—	PW	PY	RY	—	—	—	—	—	—	—
22	21	20	19	18	17	16	15	14	13	12
—	—	RW	UW	UY	YW	YG	GW	GY	—	—

BS2 / 12-WAY / BLUE

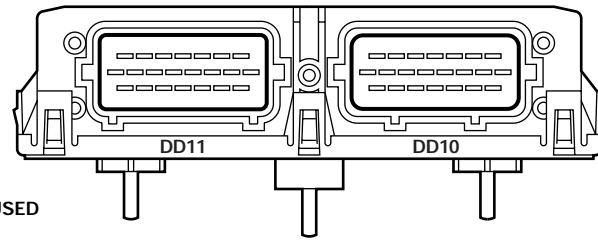
6	5	4	3	2	1
NW	B	NK	B	—	—
12	11	10	9	8	7
NW	—	—	—	—	—

BS1 / 22-WAY / BLUE

11	10	9	8	7	6	5	4	3	2	1
SY	B	—	—	—	—	—	—	—	—	—
22	21	20	19	18	17	16	15	14	13	12
B	—	—	—	—	—	—	—	—	—	B



DRIVER DOOR CONTROL MODULE



* ROW NON-MEMORY: DD11-2 NOT USED

DD11 / 22-WAY / BLACK (NAS)

7	6	5	4	3	2	1	
BP	BY	OB	OU	OR	UG	BK	
15	14	13	12	11	10	9	8
BW		OU	OY		YN	YR	
22	21	20	19	18	17	16	
BN	BS	G		BO	SN		

DD10 / 22-WAY / BLUE (NAS)

7	6	5	4	3	2	1	
UW		SY	ON	OG	Y	NO	
15	14	13	12	11	10	9	8
OW	GW				BG	U	BK
22	21	20	19	18	17	16	
OK	OU	WU	BR	B	B	S	

DD11 / 22-WAY / BLACK (ROW LHD)

7	6	5	4	3	2*	1	
BP	BY	OB	OU	OR	UG	BK	
15	14	13	12	11	10	9	8
BW		OU	OY		YN	YR	
22	21	20	19	18	17	16	
BN	BS	G			SN		

DD10 / 22-WAY / BLUE (ROW LHD)

7	6	5	4	3	2	1	
UW	SU	SY	ON	OG	Y	NO	
15	14	13	12	11	10	9	8
OW	GW				BG	U	BK
22	21	20	19	18	17	16	
OK	OU	WU	BR	BO	B	S	

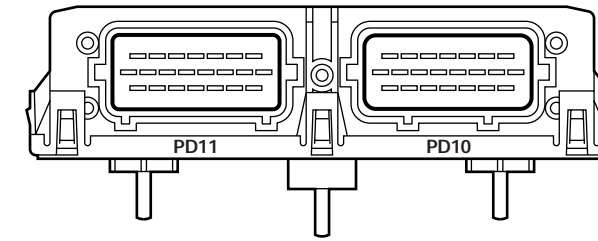
DD11 / 22-WAY / BLACK (ROW RHD)

7	6	5	4	3	2*	1	
BG	BN	OU	OU	OR	UG	BK	
15	14	13	12	11	10	9	8
BS		OB	OY		YN	YR	
22	21	20	19	18	17	16	
BY	BW	G			SN		

DD10 / 22-WAY / BLUE (ROW RHD)

7	6	5	4	3	2	1	
UW	SU	SY	ON	OG	Y	NO	
15	14	13	12	11	10	9	8
OW	GW				BP	U	BK
22	21	20	19	18	17	16	
OK	OU	WU	BO	BR	B	S	

PASSENGER DOOR CONTROL MODULE



PD11 / 22-WAY / BLACK (NAS)

7	6	5	4	3	2	1	
	BO						
15	14	13	12	11	10	9	8
22	21	20	19	18	17	16	
	BG	G					

PD10 / 22-WAY / BLUE (NAS)

7	6	5	4	3	2	1	
UW		SY				NO	
15	14	13	12	11	10	9	8
OW	GW					U	BK
22	21	20	19	18	17	16	
					B	S	

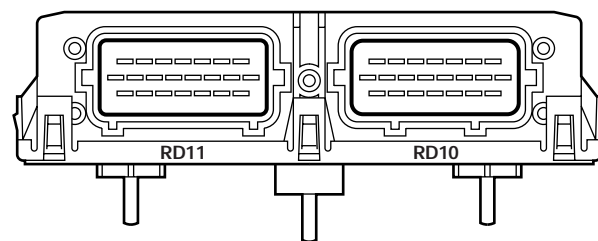
PD11 / 22-WAY / BLACK (ROW)

7	6	5	4	3	2	1	
	BO						
15	14	13	12	11	10	9	8
22	21	20	19	18	17	16	
	BG	G					

PD10 / 22-WAY / BLUE (ROW)

7	6	5	4	3	2	1	
UW	SU	SY				NO	
15	14	13	12	11	10	9	8
OW	GW					U	BK
22	21	20	19	18	17	16	
					B	S	

DRIVER REAR DOOR CONTROL MODULE



RD11 / 22-WAY / BLACK (NAS)

7	6	5	4	3	2	1	
BK	BO	UP					
15	14	13	12	11	10	9	8
US		KS					
22	21	20	19	18	17	16	
UN	BG	G					

RD10 / 22-WAY / BLUE (NAS)

7	6	5	4	3	2	1	
UW		PN	PG	Y	NO		
15	14	13	12	11	10	9	8
OW	GW					U	BK
22	21	20	19	18	17	16	
YK	PU	WU	BK		B	S	

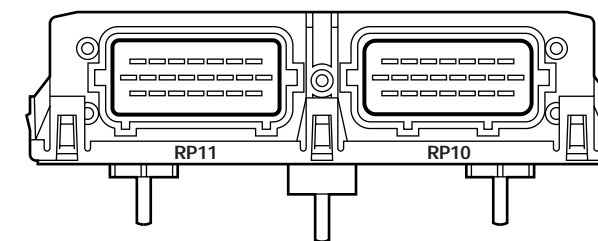
RD11 / 22-WAY / BLACK (ROW)

7	6	5	4	3	2	1	
BK	BO	UP					
15	14	13	12	11	10	9	8
US		KS					
22	21	20	19	18	17	16	
UN	BG	G					

RD10 / 22-WAY / BLUE (ROW)

7	6	5	4	3	2	1	
UW		PN	PG	Y	NO		
15	14	13	12	11	10	9	8
OW	GW					U	BK
22	21	20	19	18	17	16	
YK	PU	WU	BK		B	S	

PASSENGER REAR DOOR CONTROL MODULE



RP11 / 22-WAY / BLACK (NAS)

7	6	5	4	3	2	1	
	BO						
15	14	13	12	11	10	9	8
U							
22	21	20	19	18	17	16	
	BG	G					

RP10 / 22-WAY / BLUE (NAS)

7	6	5	4	3	2	1	
UW		SY				NO	
15	14	13	12	11	10	9	8
OW	GW					U	BK
22	21	20	19	18	17	16	
					B	S	

RP11 / 22-WAY / BLACK (ROW)

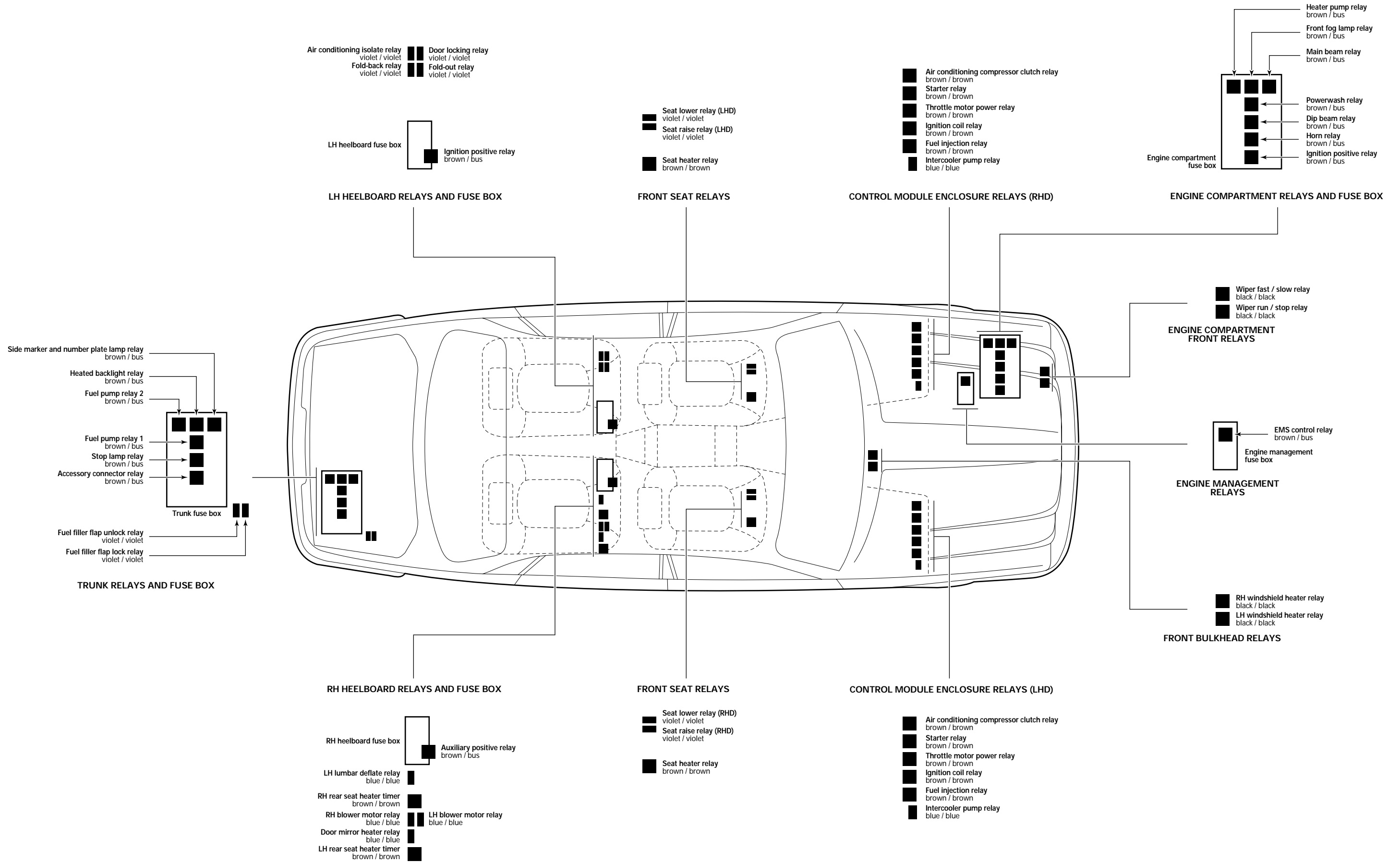
7	6	5	4	3	2	1	
	BO						
15	14	13	12	11	10	9	8
U							
22	21	20	19	18	17	16	
	BG	G					

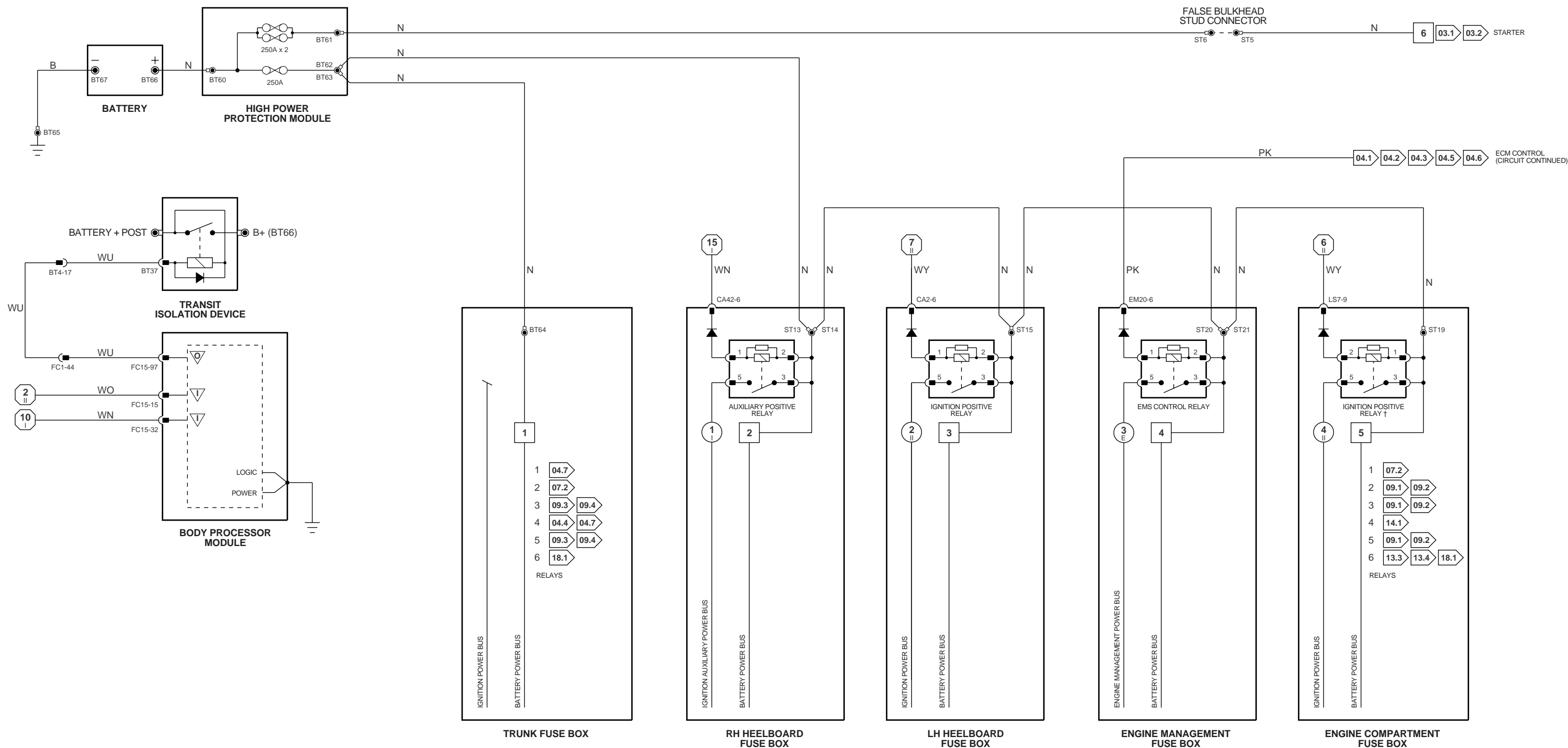
RP10 / 22-WAY / BLUE (ROW)

7	6	5	4	3	2	1	
UW		SY				NO	
15	14	13	12	11	10	9	8
OW	GW					U	BK
22	21	20	19	18	17	16	
					B	S	



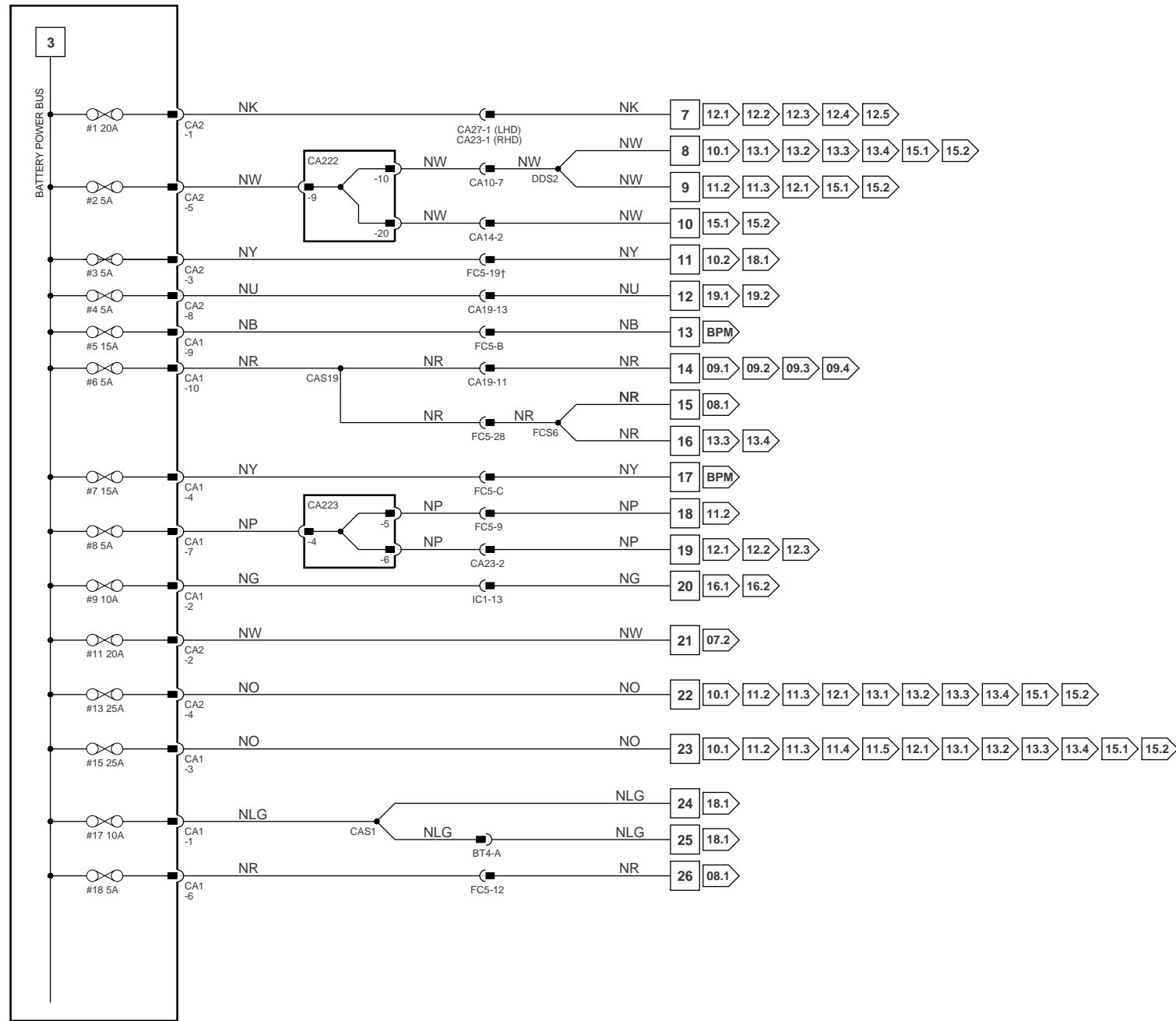
NOTE: RELAY COLORS ARE WRITTEN AS CASE COLOR / CONNECTOR COLOR. FOR EXAMPLE, BLACK / BLACK INDICATES A RELAY HAVING A BLACK CASE WITH A BLACK CONNECTOR. SOME RELAYS CONNECT DIRECTLY TO A FUSE BOX BUS; THE CONNECTOR COLOR FOR THESE RELAYS IS IDENTIFIED AS "BUS".



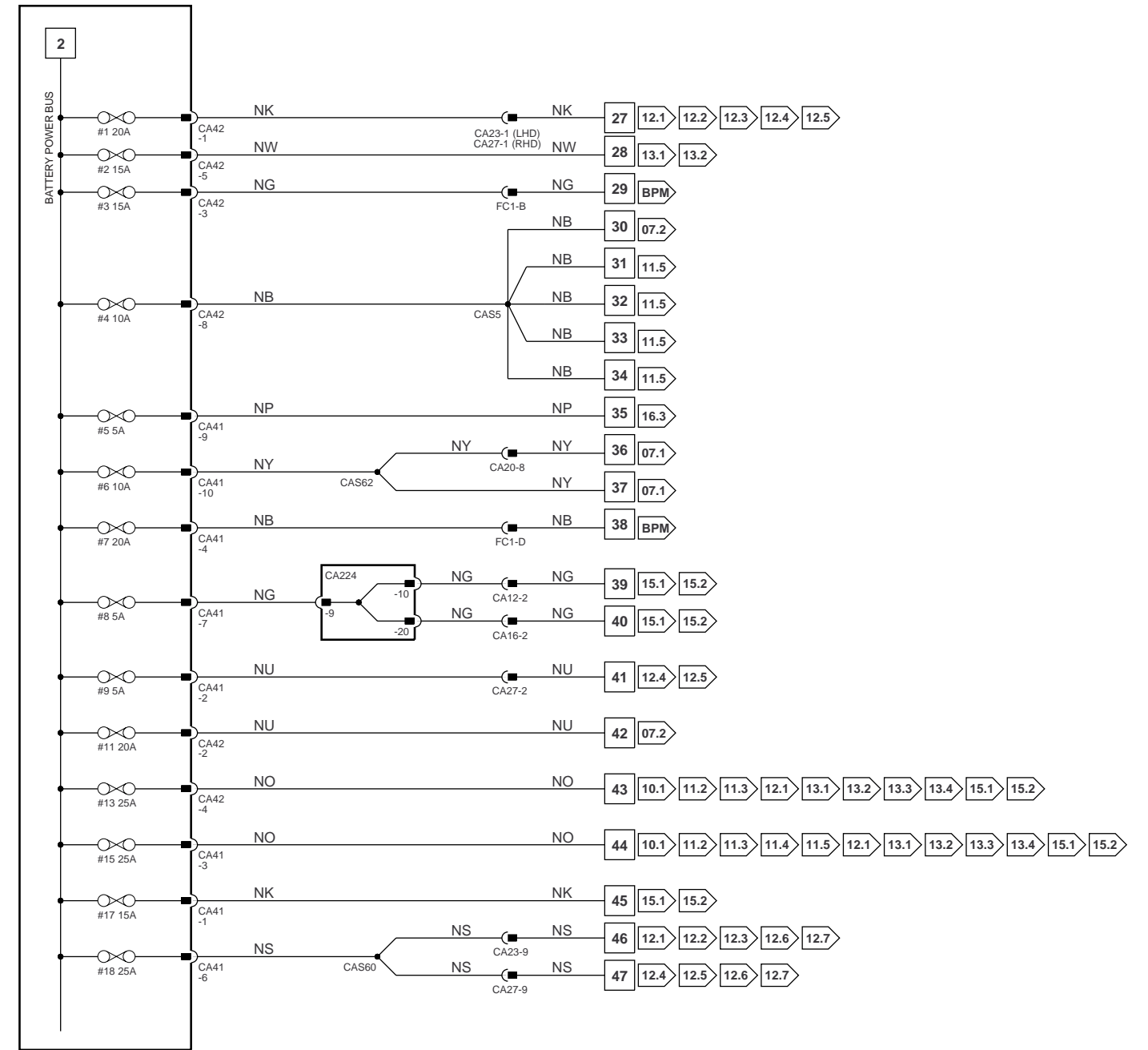


† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1 	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	VARIANT: All Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997
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LH HEELBOARD FUSE BOX

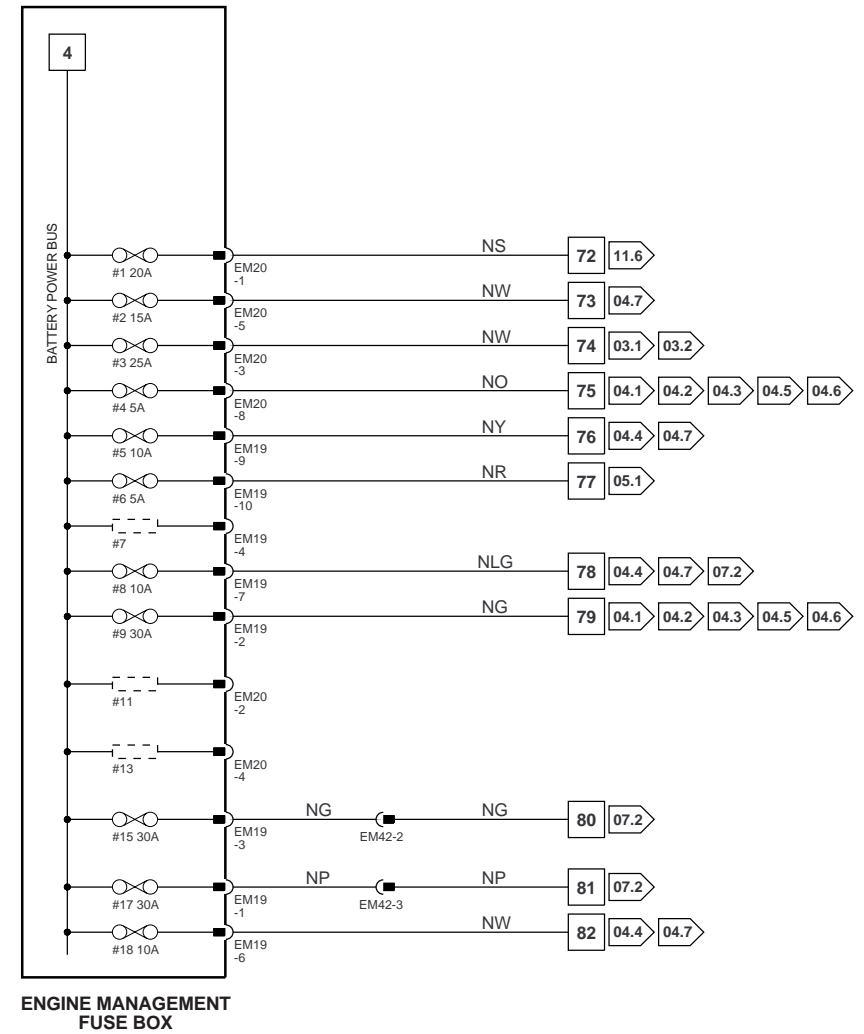
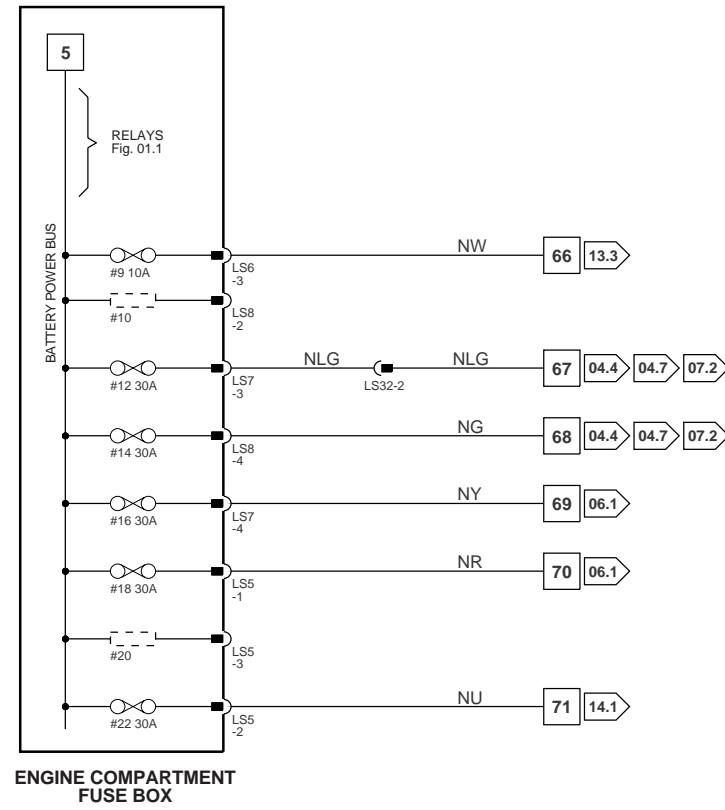
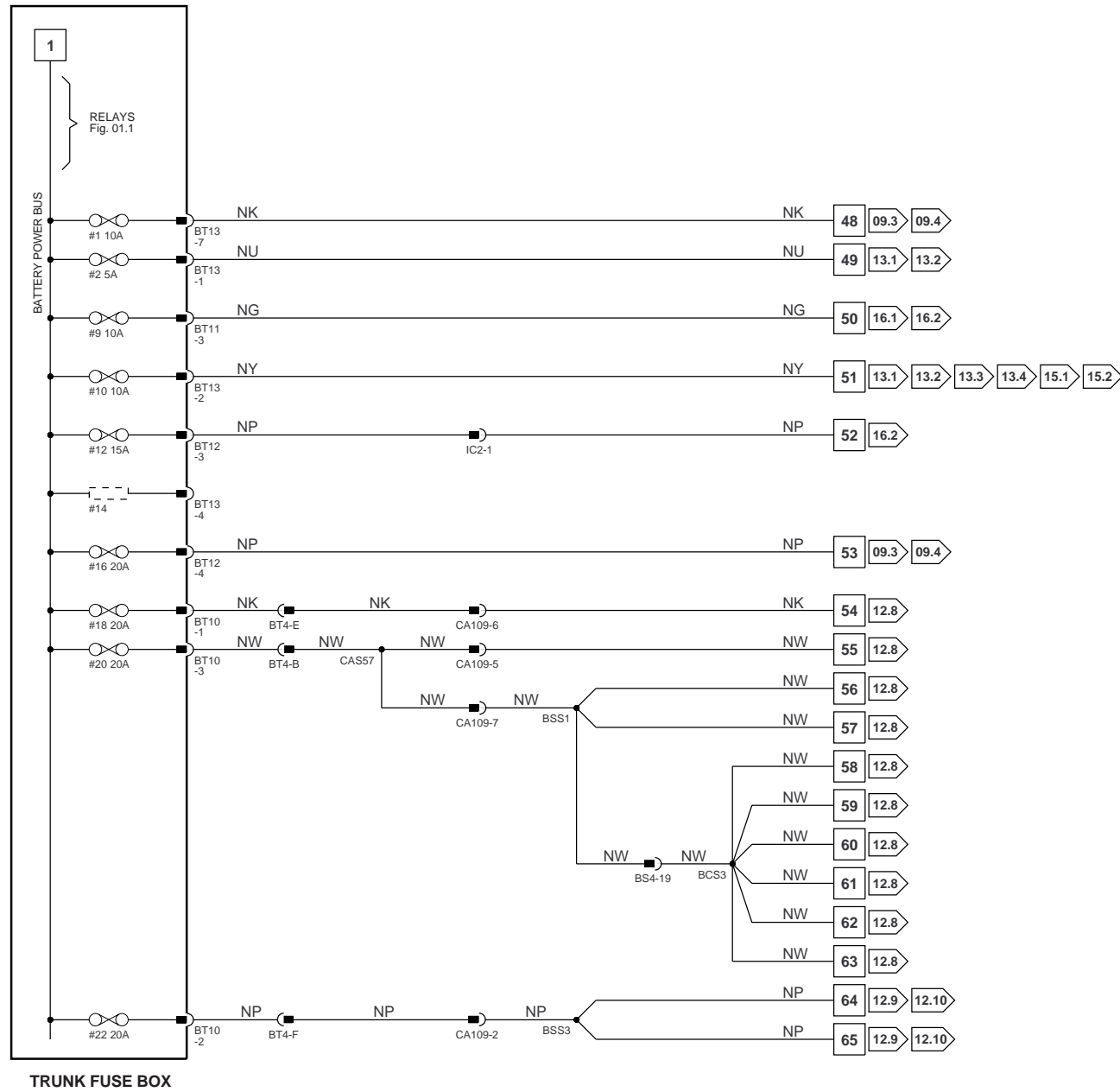


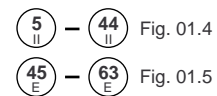
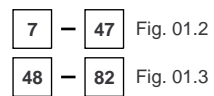
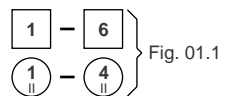
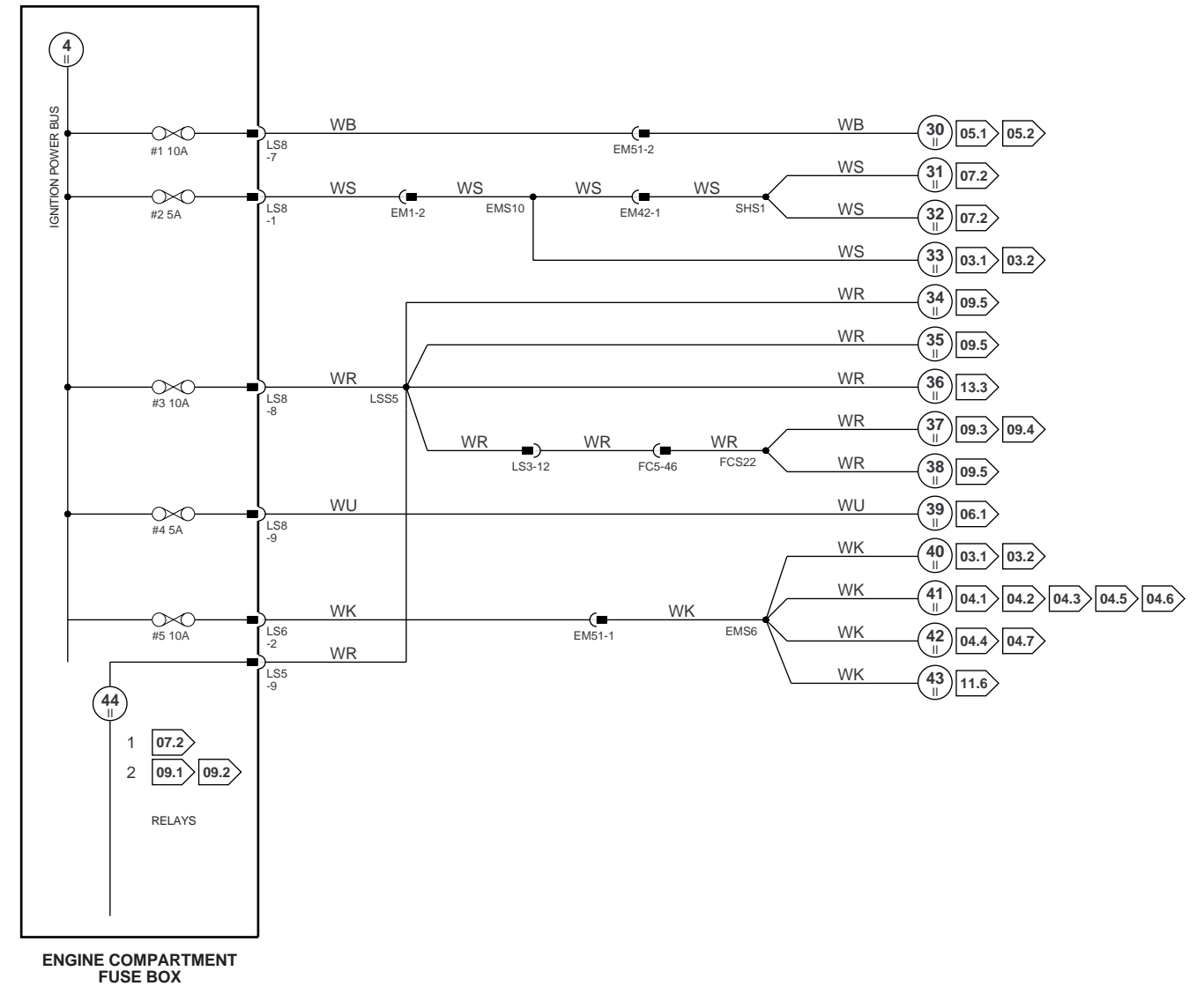
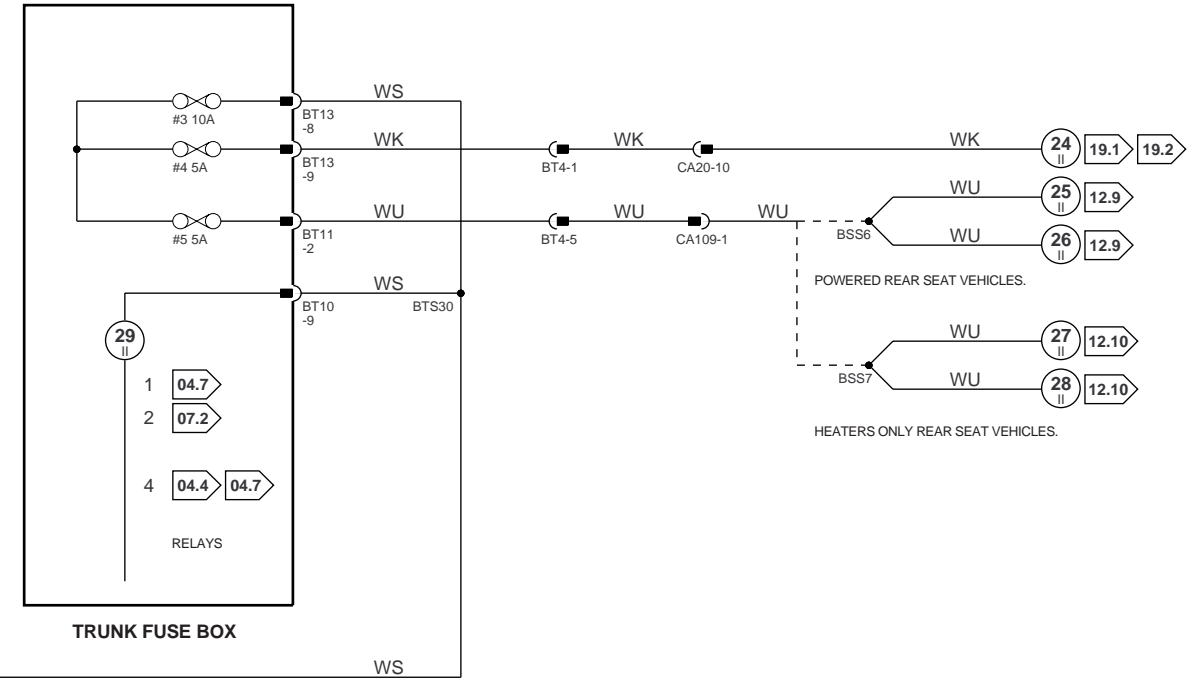
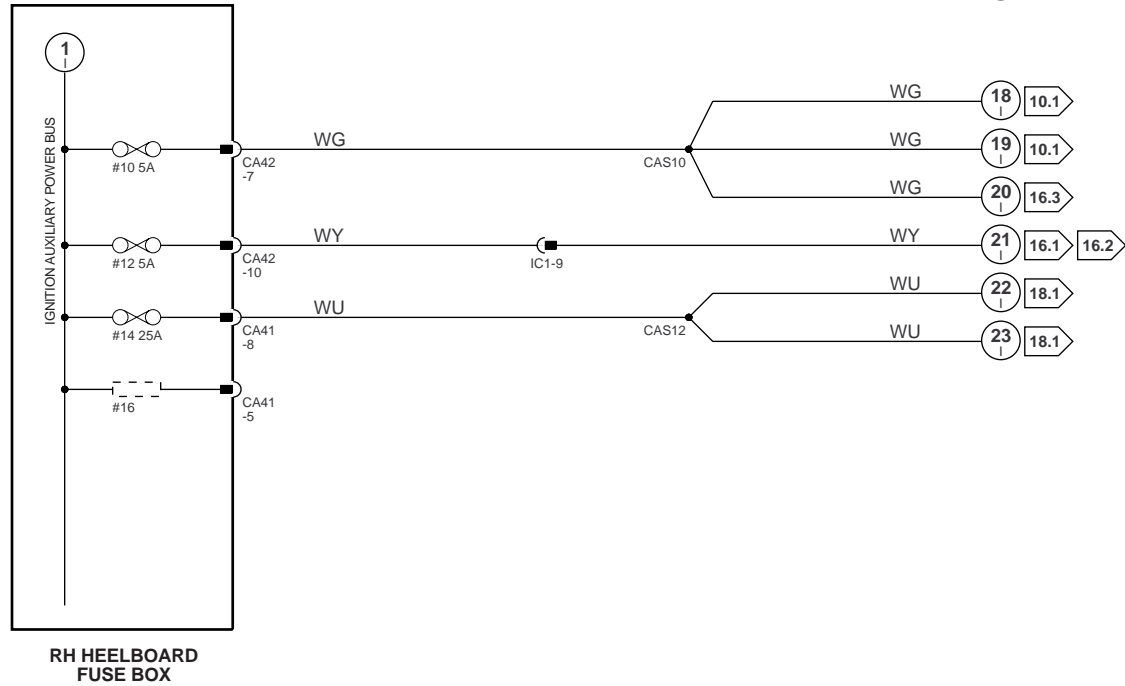
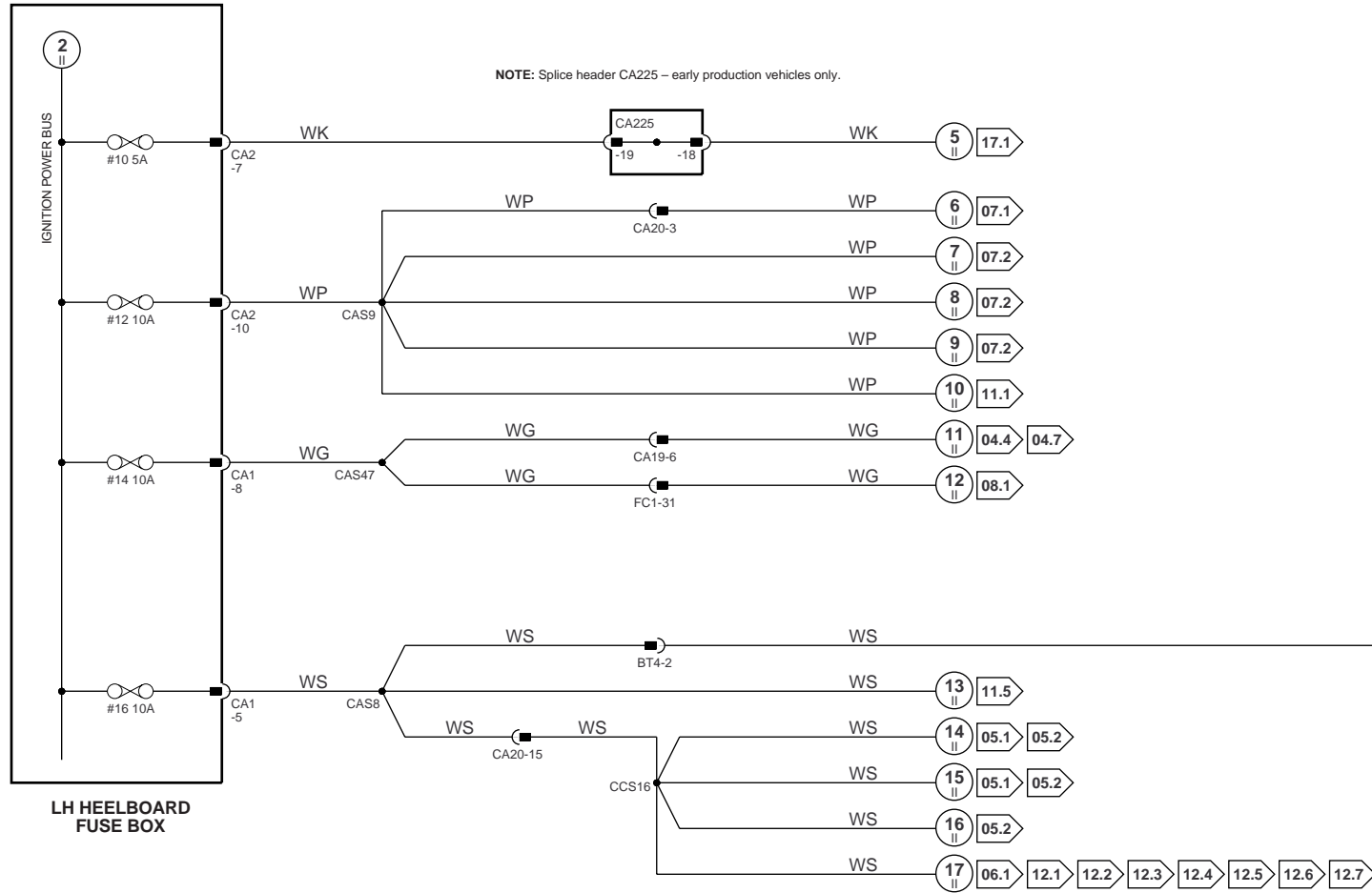
RH HEELBOARD FUSE BOX

BPM NOTE: Body Processor Module appears in numerous figures.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1 	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	VARIANT: All Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997
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▽ Input

▽ Output

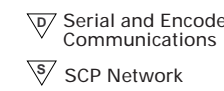
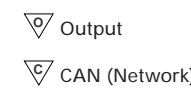
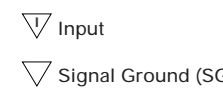
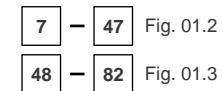
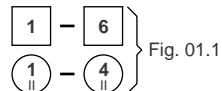
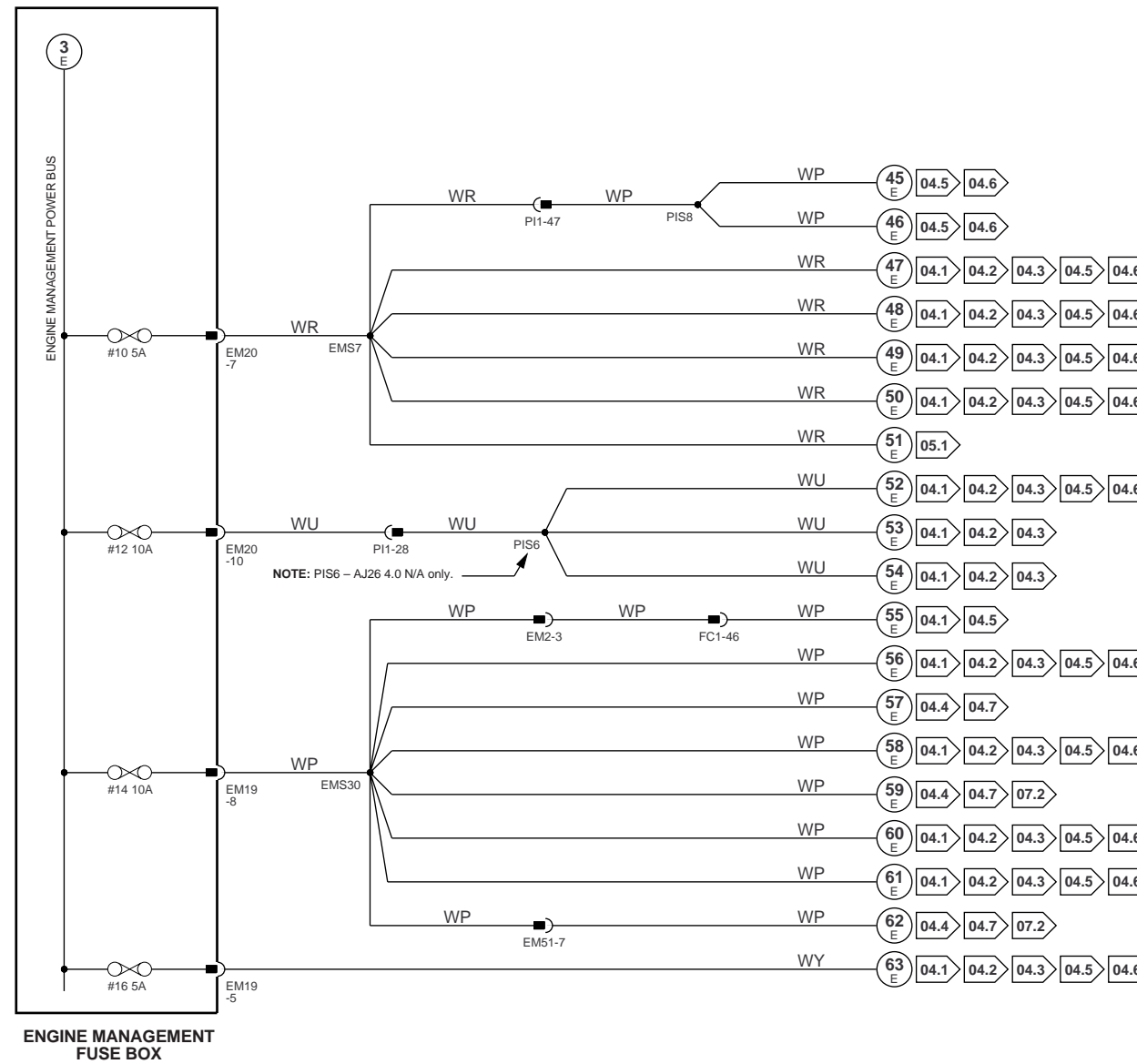
▽ Serial and Encoded Communications

▽ Signal Ground (SG)

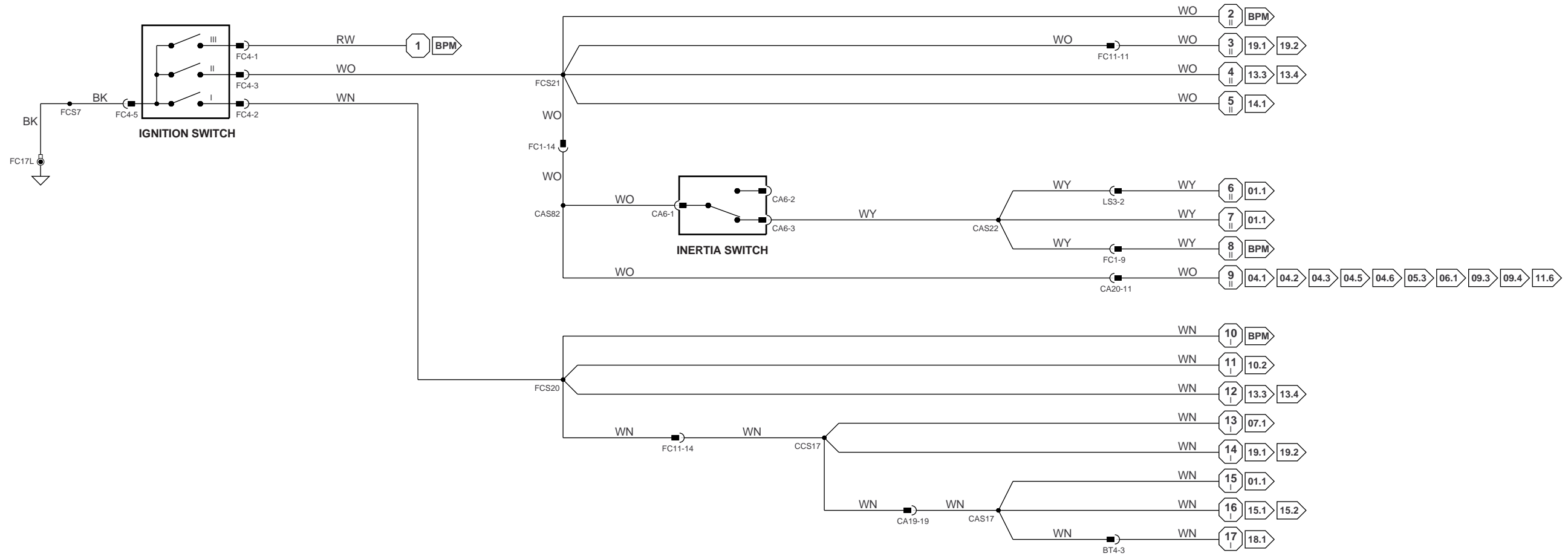
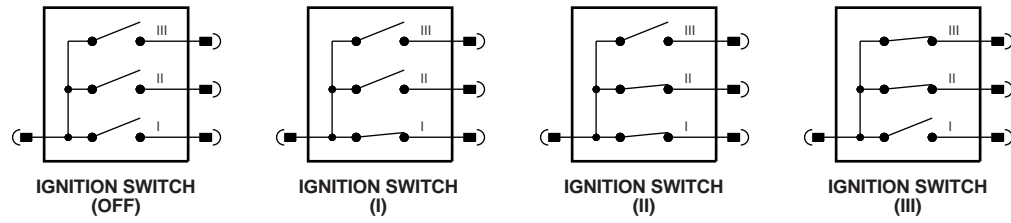
▽ CAN (Network)

▽ SCP Network

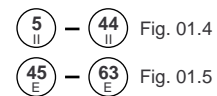
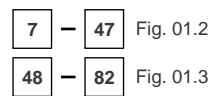
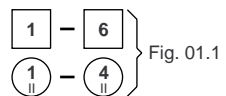
VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



BPM NOTE: Body Processor Module appears in numerous figures.



▽ Input

▽ Signal Ground (SG)

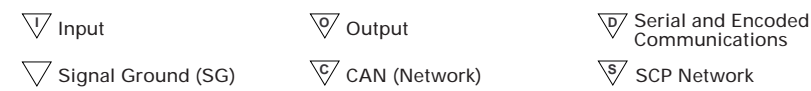
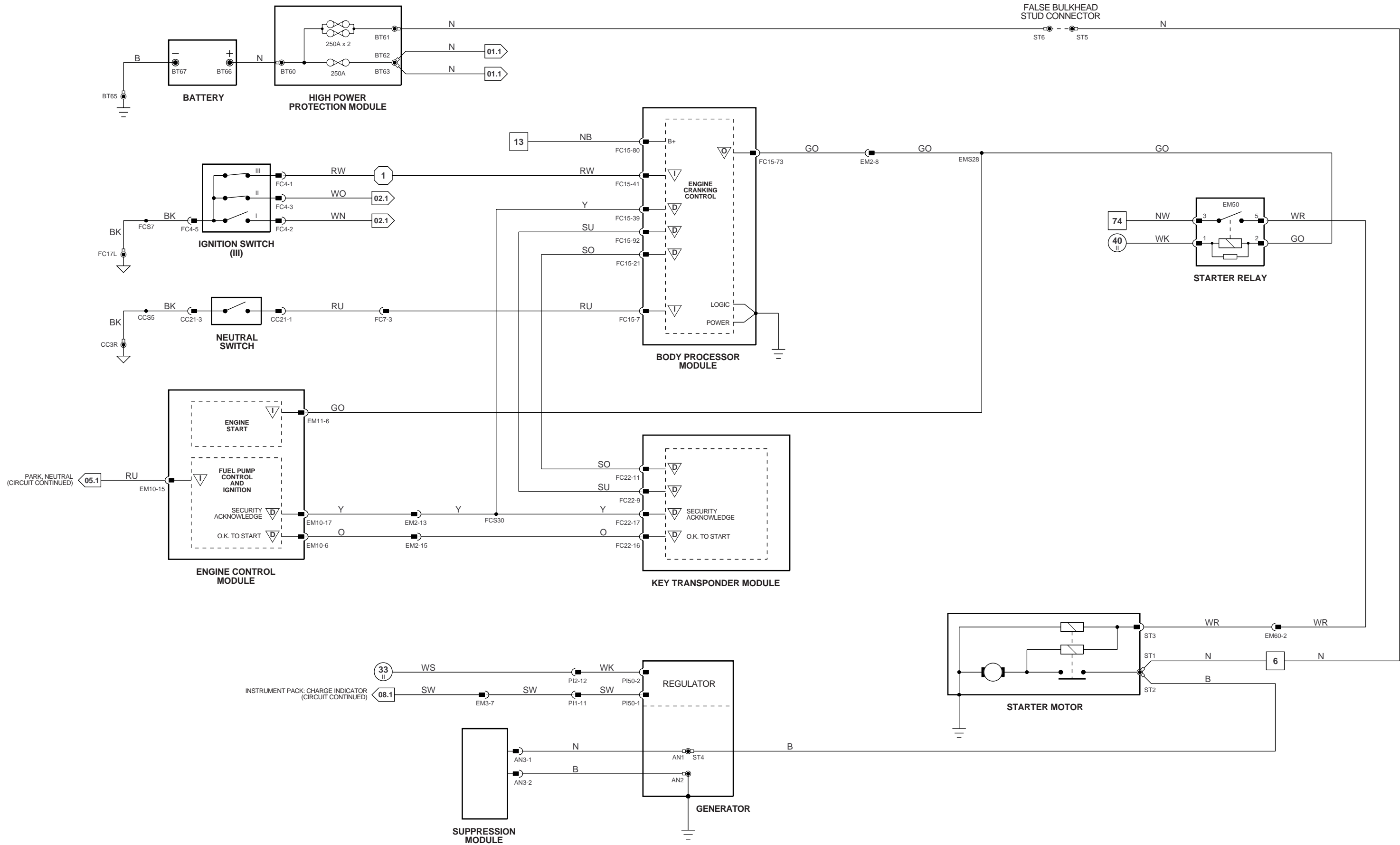
▽ Output

▽ CAN (Network)

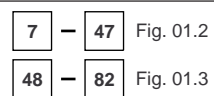
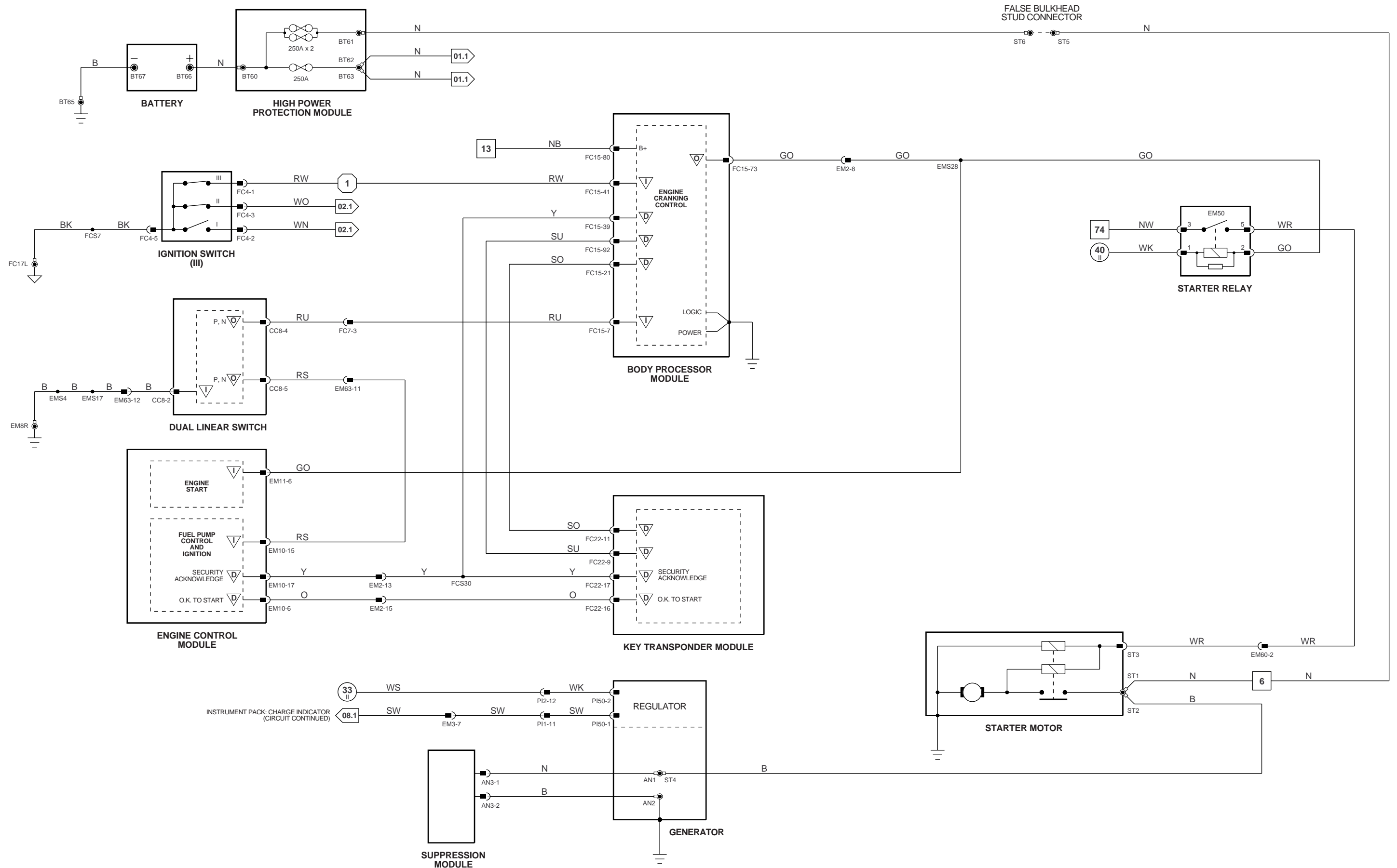
▽ Serial and Encoded Communications

▽ SCP Network

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



VARIANT: AJ26 N/A Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



▽ Input

▽ Signal Ground (SG)

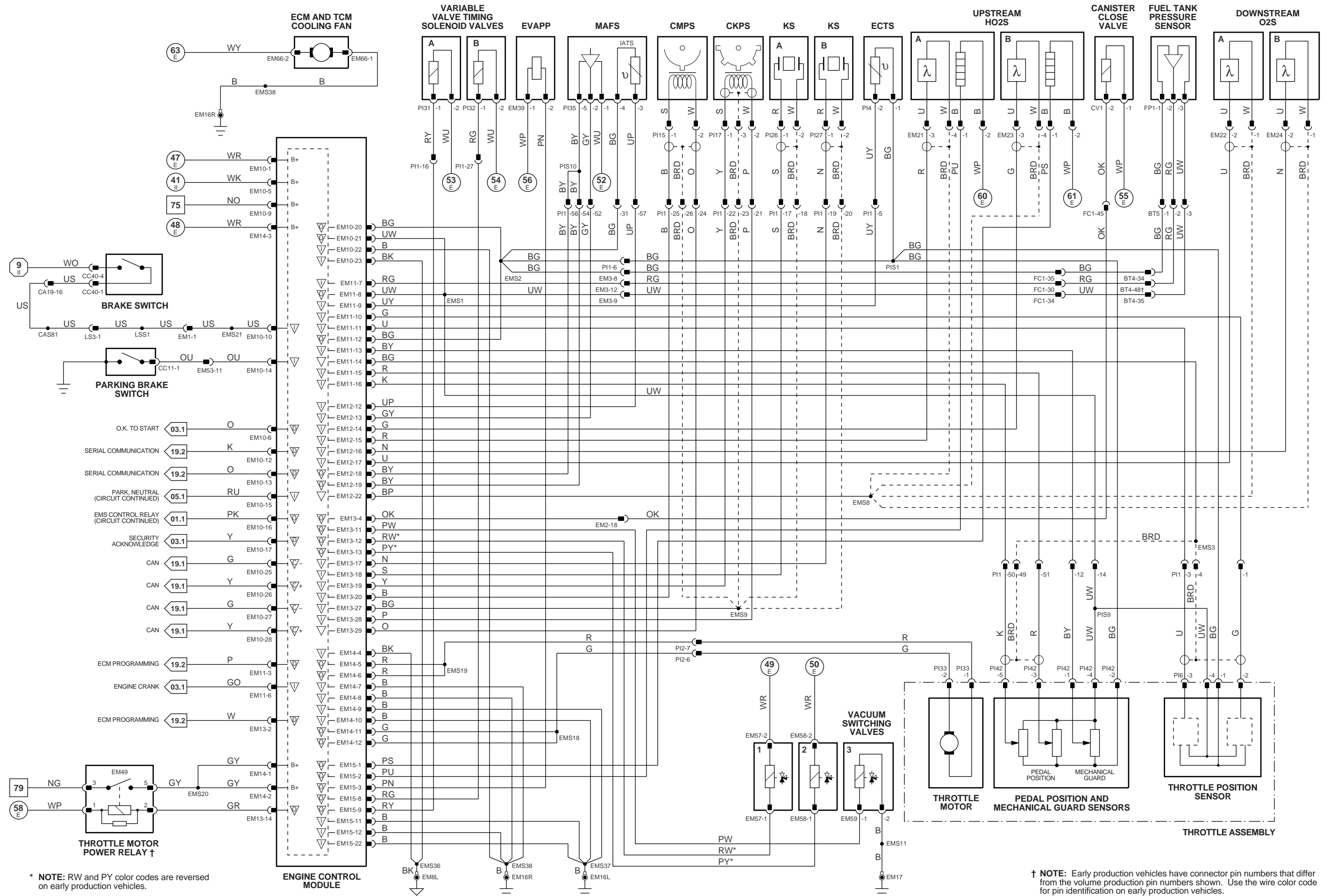
▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

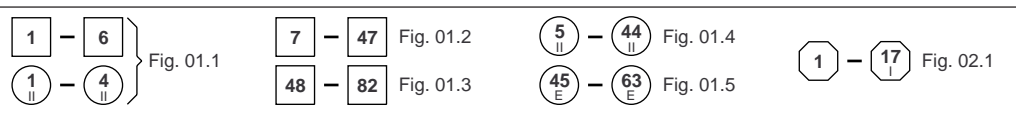
▽ SCP Network

VARIANT: AJ26 SC Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

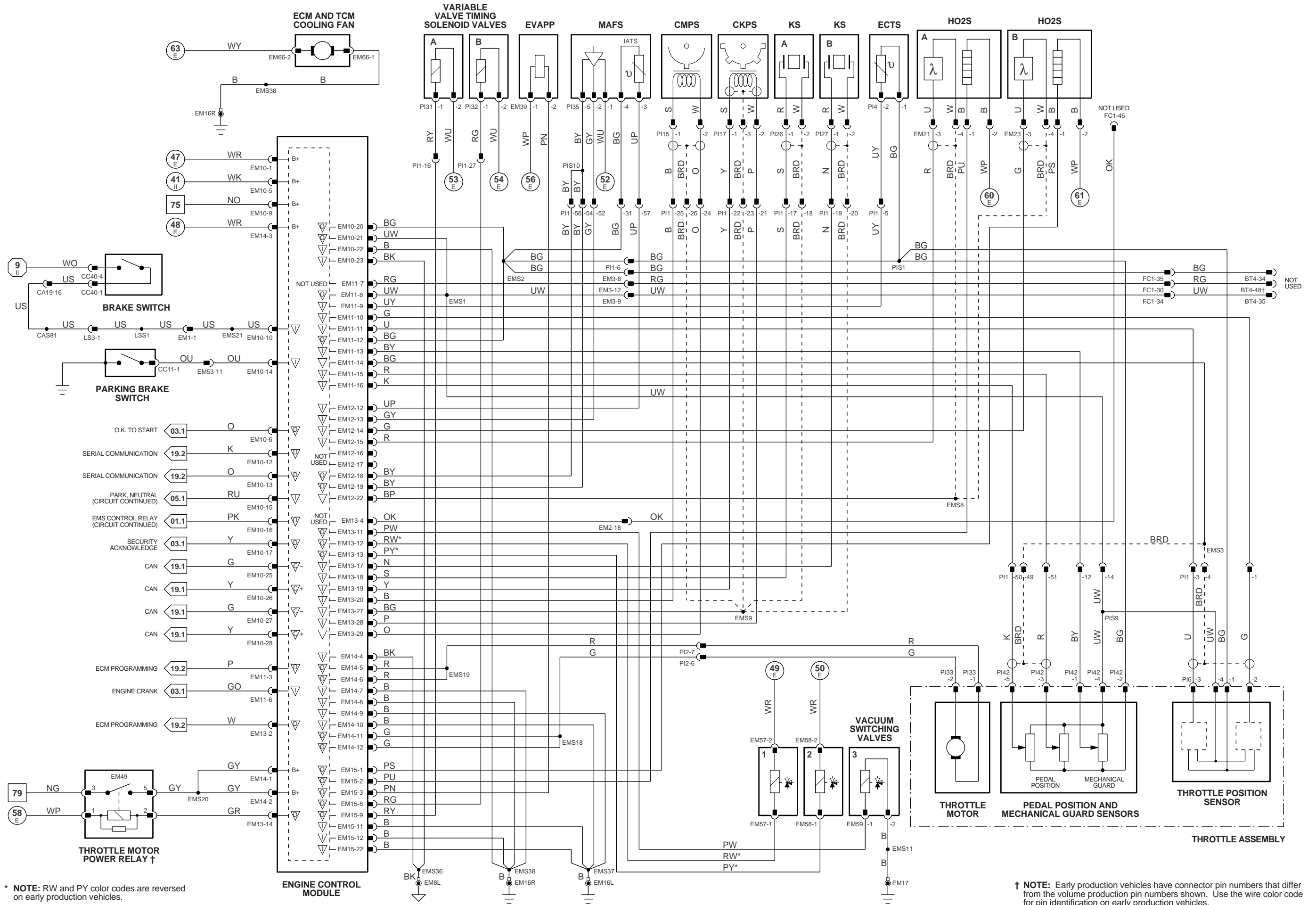


* NOTE: RW and PY color codes are reversed on early production vehicles.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.



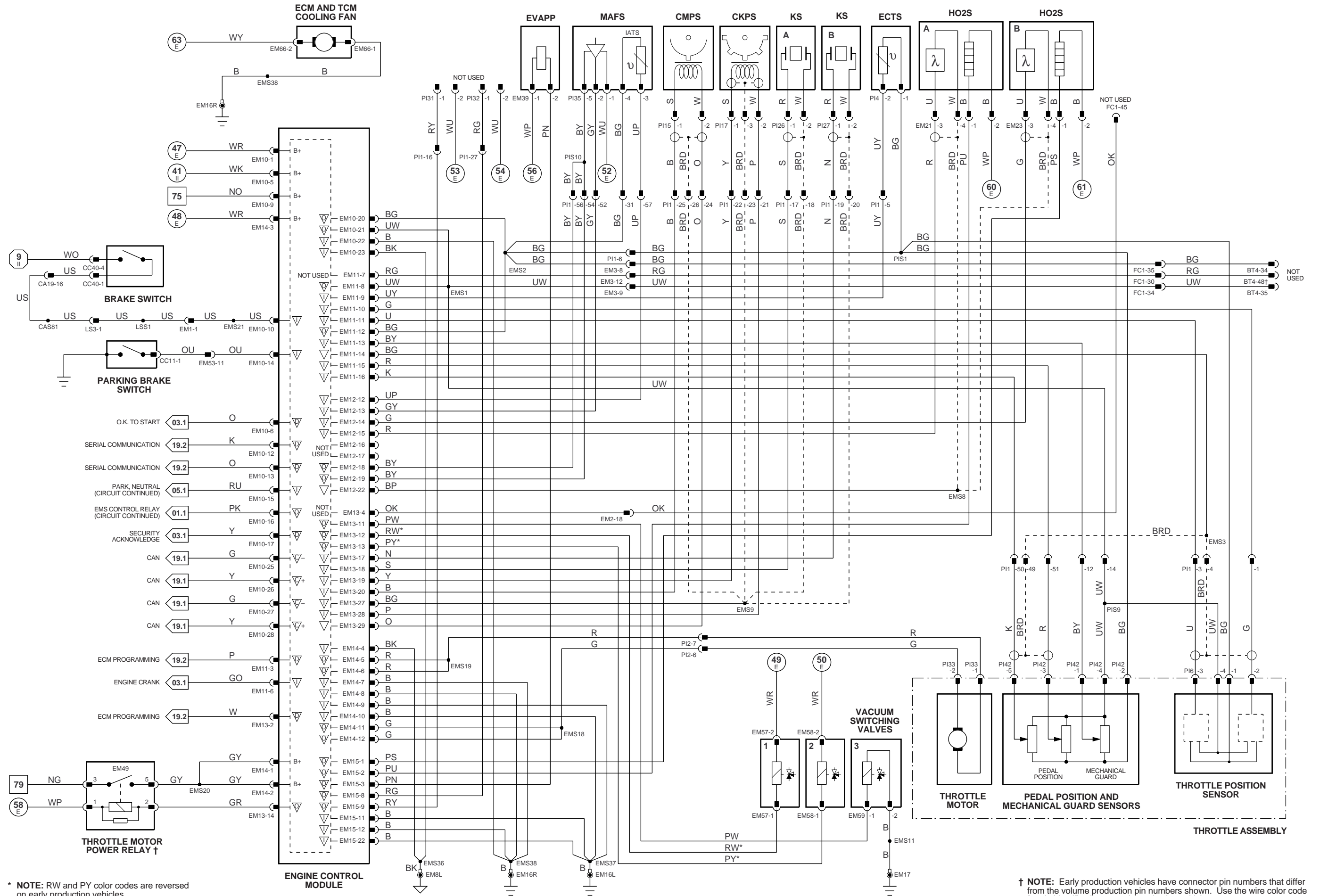
VARIANT: AJ26 4.0 N/A NAS Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



* NOTE: RW and PY color codes are reversed on early production vehicles.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1 Fig. 01.1	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	<p>VARIANT: AJ26 4.0 N/A ROW Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997</p>
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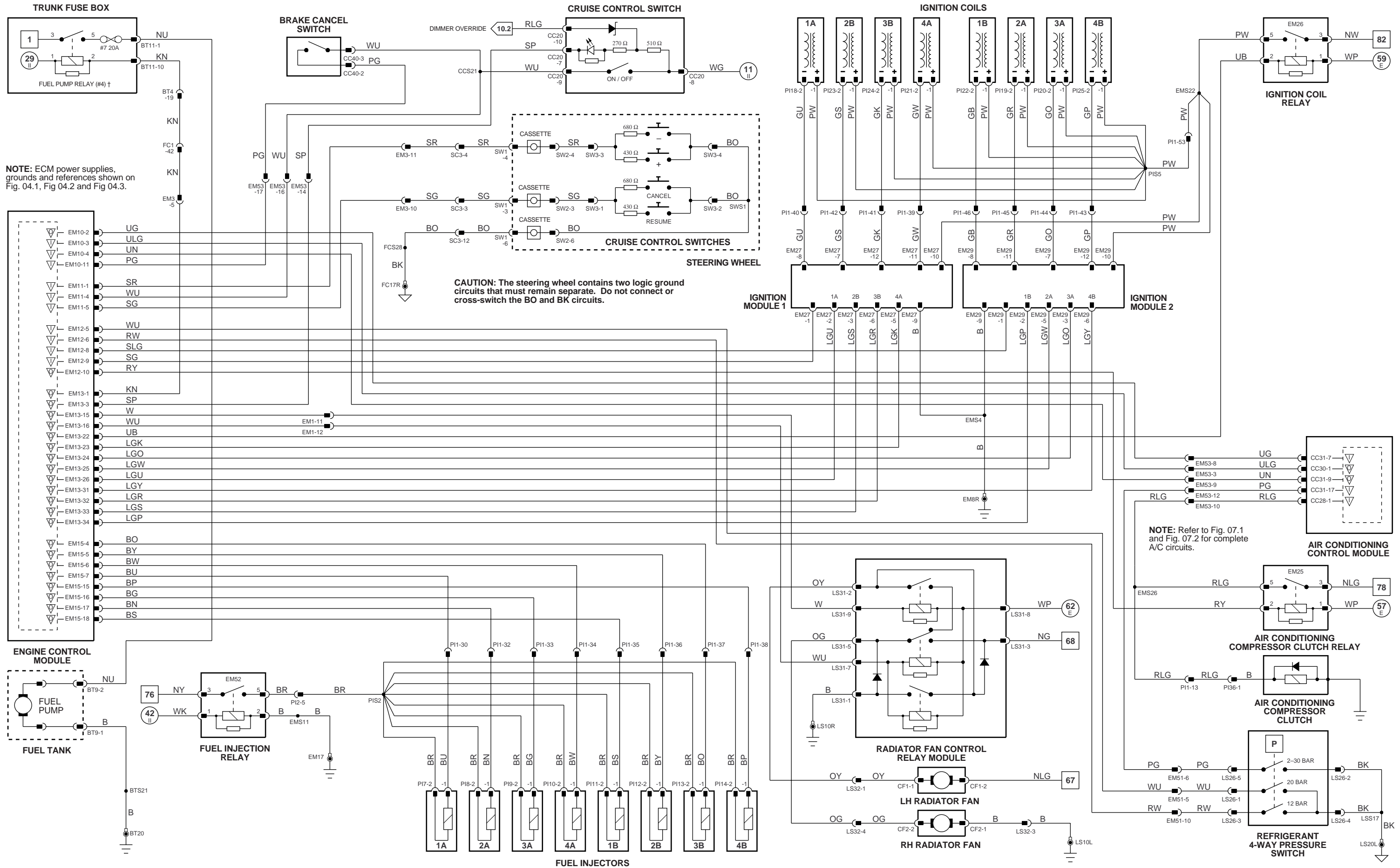


* NOTE: RW and PY color codes are reversed on early production vehicles.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.



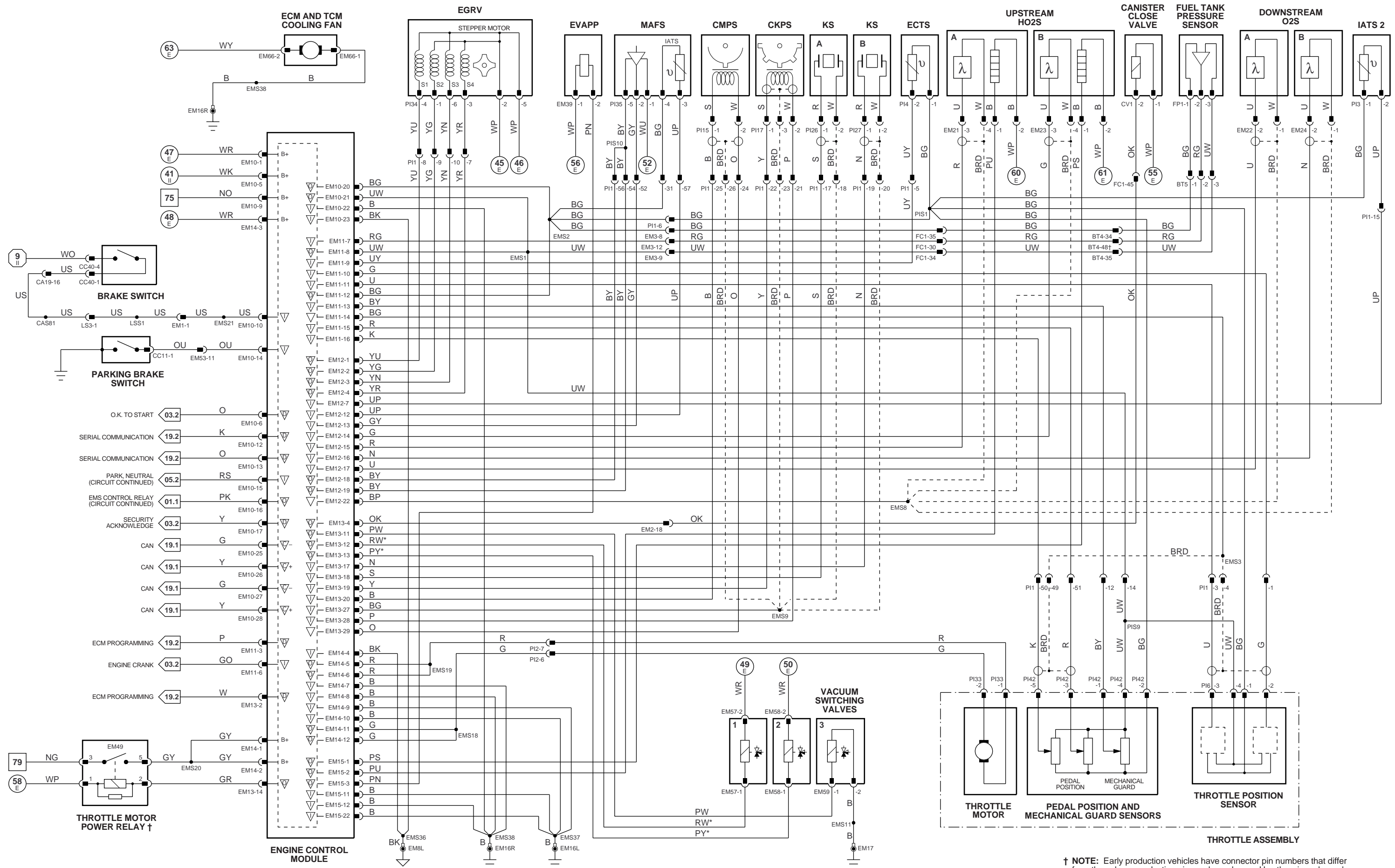
VARIANT: AJ26 3.2 Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

1 - 6 } Fig. 01.1	7 - 47 } Fig. 01.2	5 - 44 } Fig. 01.4	1 - 17 } Fig. 02.1	▽ Input	▽ Output	▽ Serial and Encoded Communications
1 - 4 } Fig. 01.1	48 - 82 } Fig. 01.3	45 - 63 } Fig. 01.5		▽ Signal Ground (SG)	▽ CAN (Network)	▽ SCP Network

VARIANT: AJ26 4.0 and 3.2 N/A Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

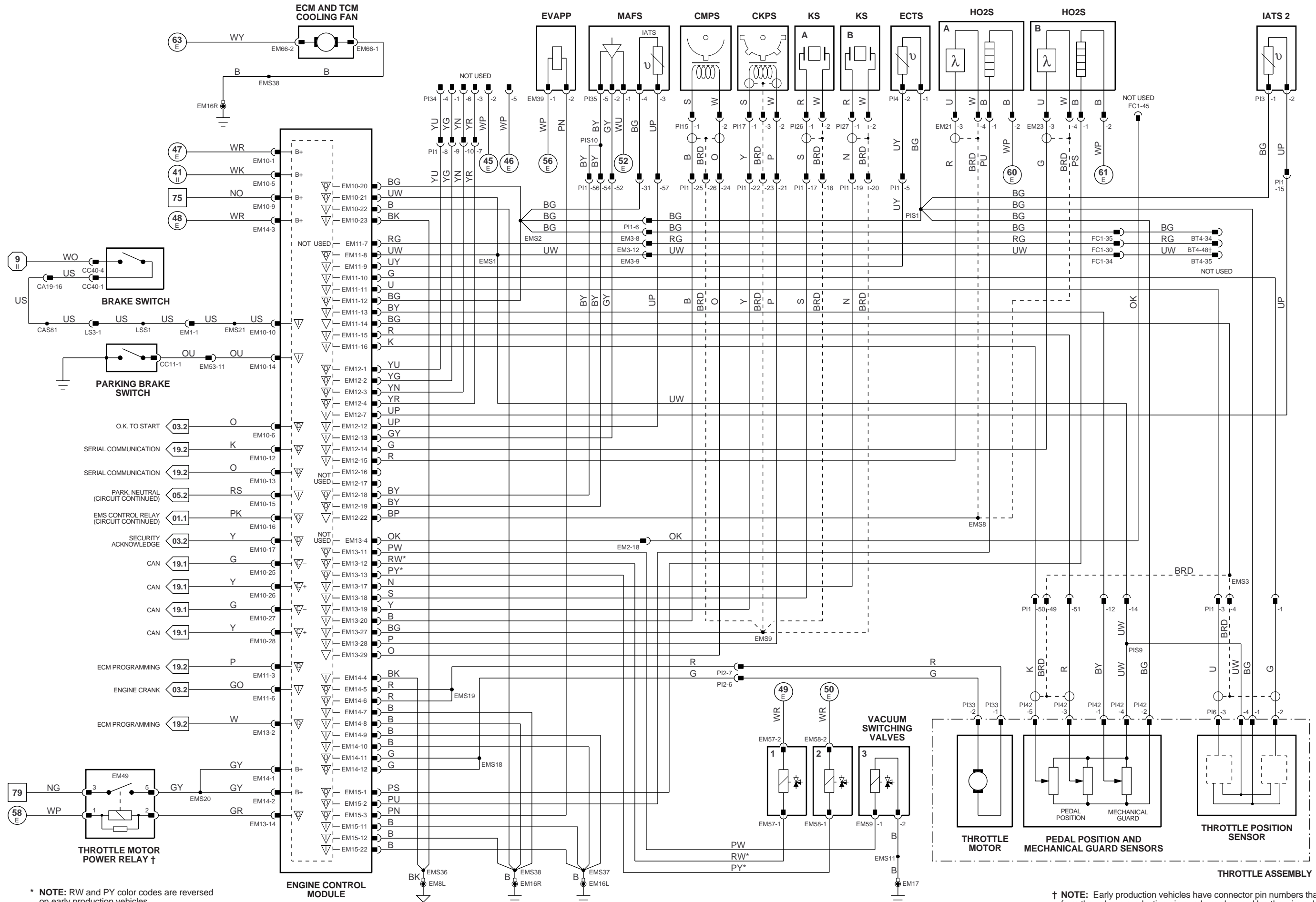


* NOTE: RW and PY color codes are reversed on early production vehicles.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.



VARIANT: AJ26 4.0 SC NAS Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

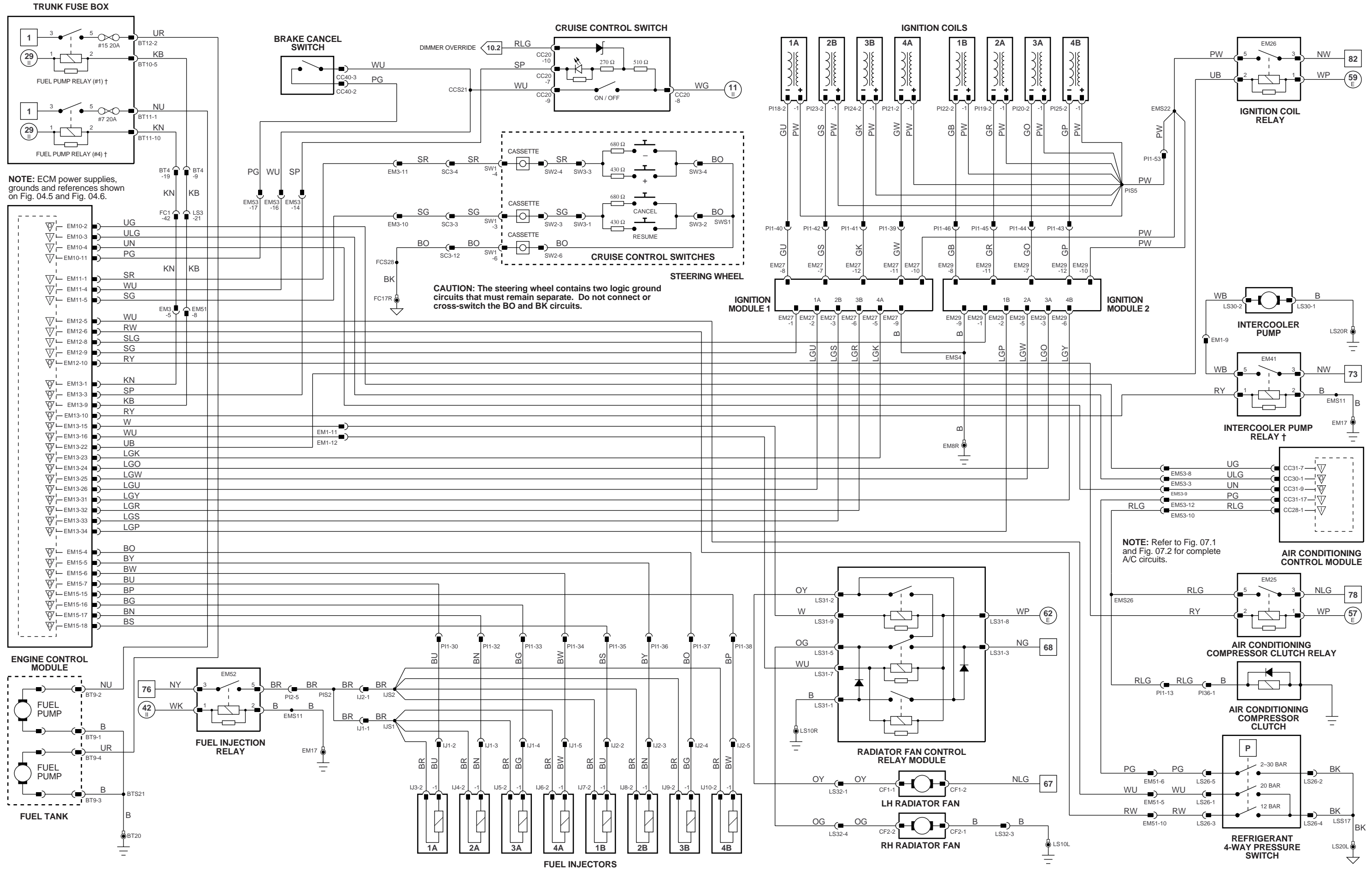


* NOTE: RW and PY color codes are reversed on early production vehicles.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

1 - 6 Fig. 01.1 1 - 4 Fig. 01.1	7 - 47 Fig. 01.2 48 - 82 Fig. 01.3	5 - 44 Fig. 01.4 45 - 63 Fig. 01.5	1 - 17 Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network
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VARIANT: AJ26 4.0 SC ROW Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



NOTE: ECM power supplies, grounds and references shown on Fig. 04.5 and Fig. 04.6.

CAUTION: The steering wheel contains two logic ground circuits that must remain separate. Do not connect or cross-switch the BO and BK circuits.

NOTE: Refer to Fig. 07.1 and Fig. 07.2 for complete A/C circuits.

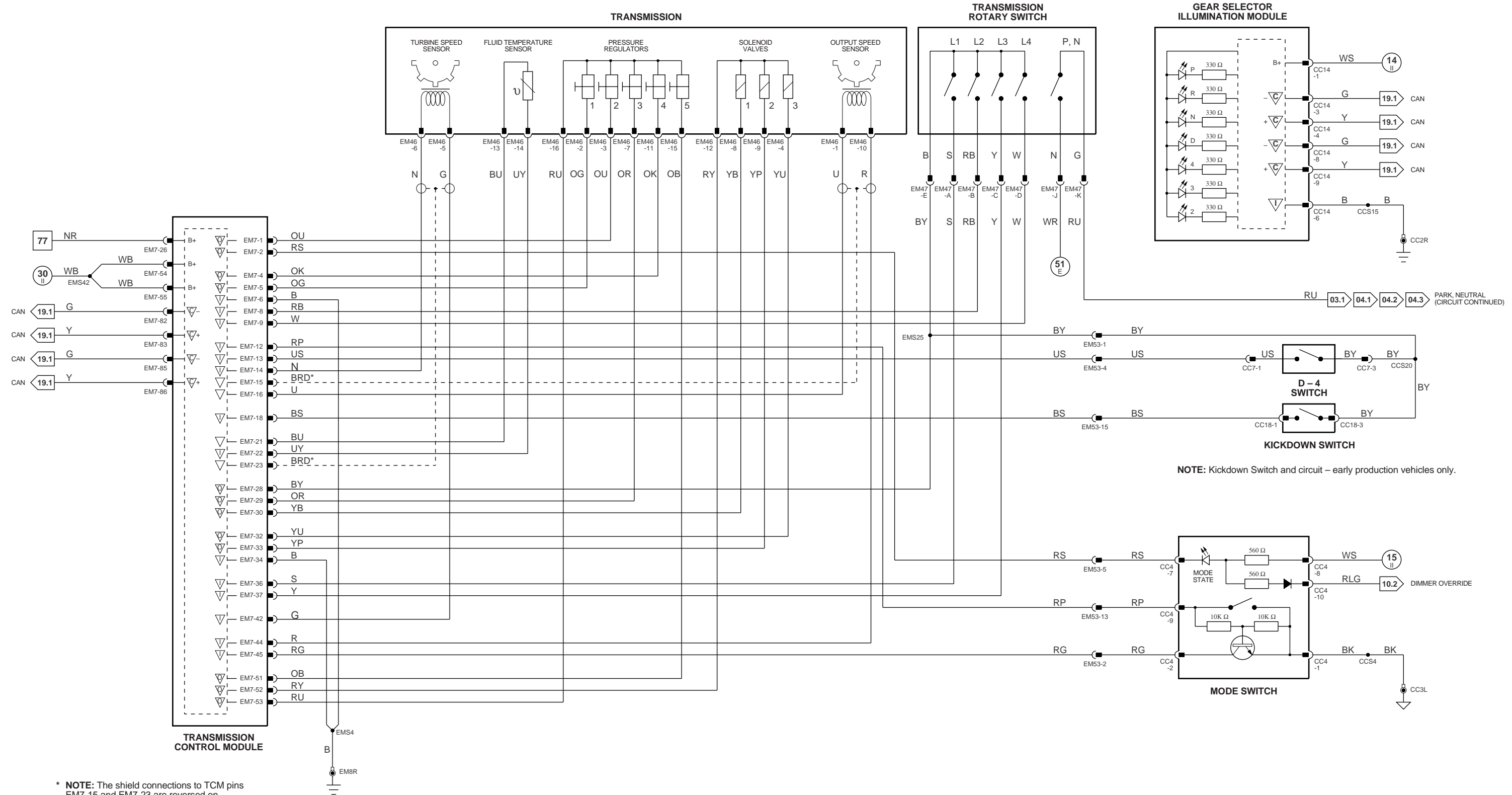
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1	Fig. 01.2	Fig. 01.4	Fig. 02.1	Input	Output	Serial and Encoded Communications
Fig. 01.1	Fig. 01.3	Fig. 01.5		Signal Ground (SG)	CAN (Network)	SCP Network

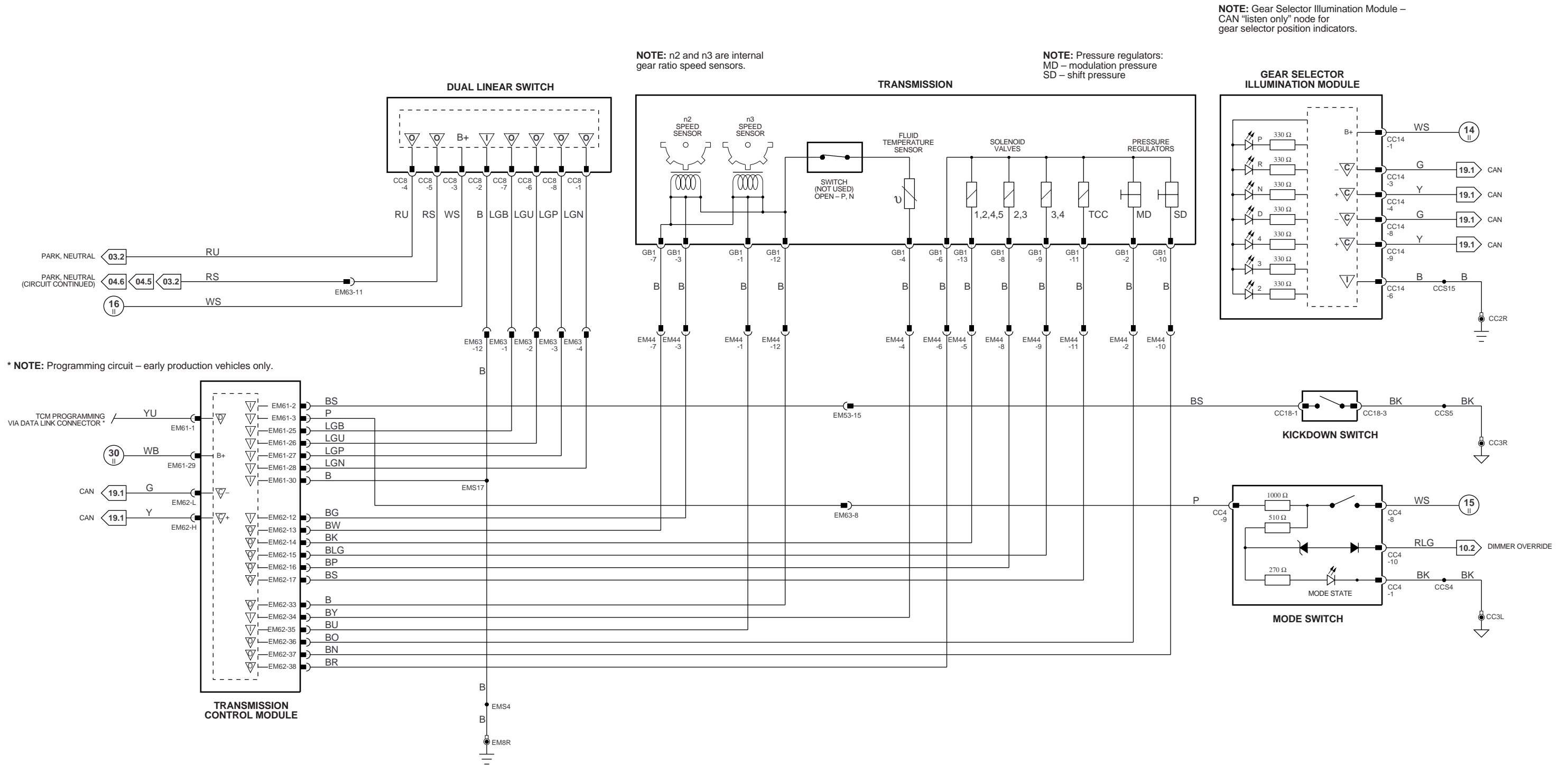
VARIANT: AJ26 4.0 SC Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

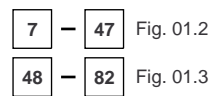
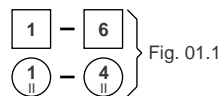
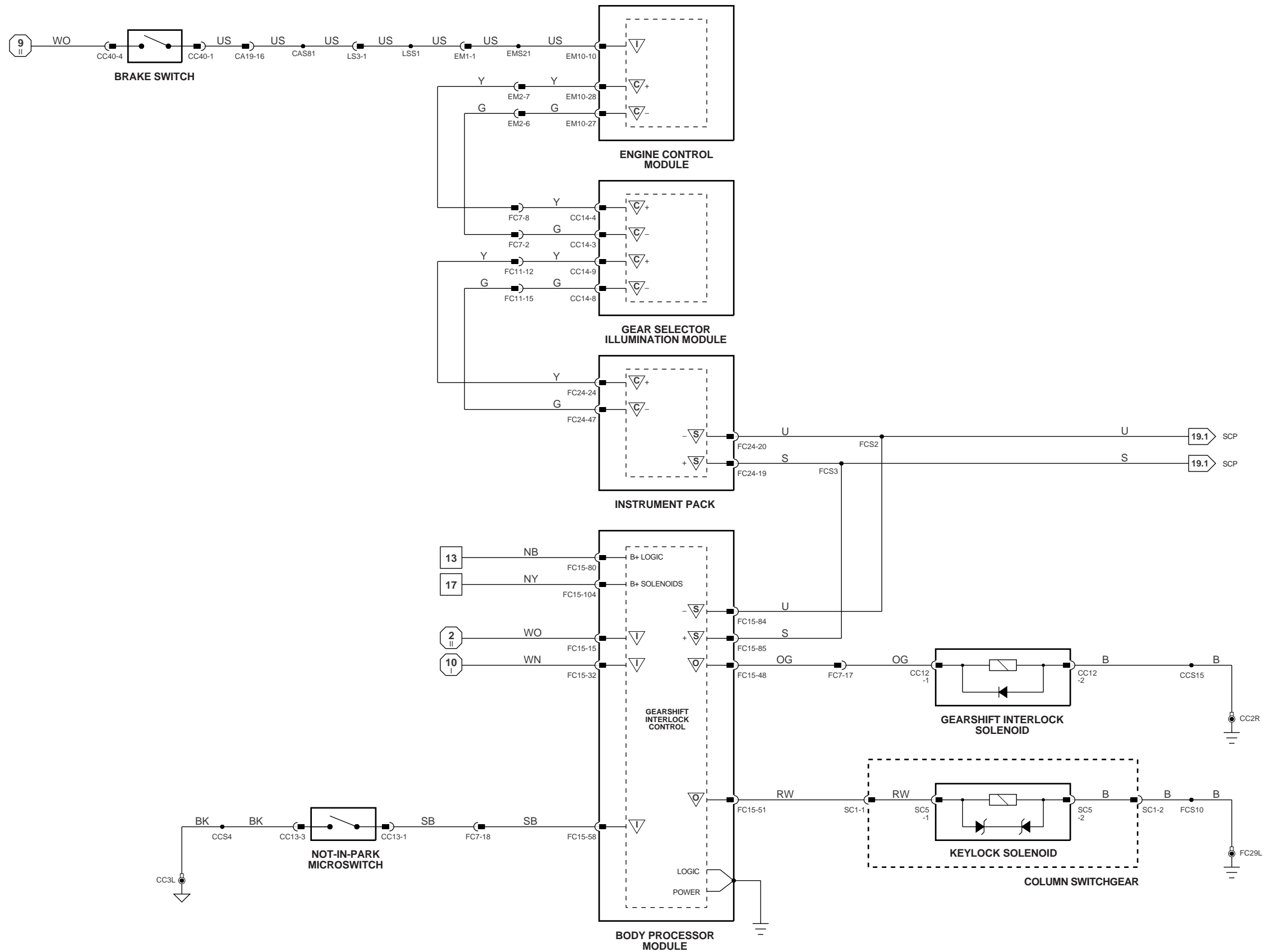


NOTE: Gear Selector Illumination Module – CAN “listen only” node for gear selector position indicators.



NOTE: Kickdown Switch and circuit – early production vehicles only.





▽ Input

▽ Signal Ground (SG)

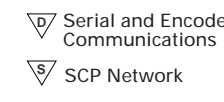
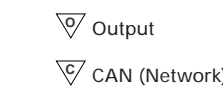
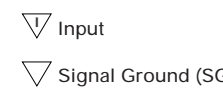
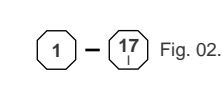
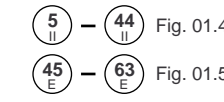
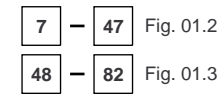
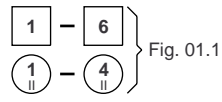
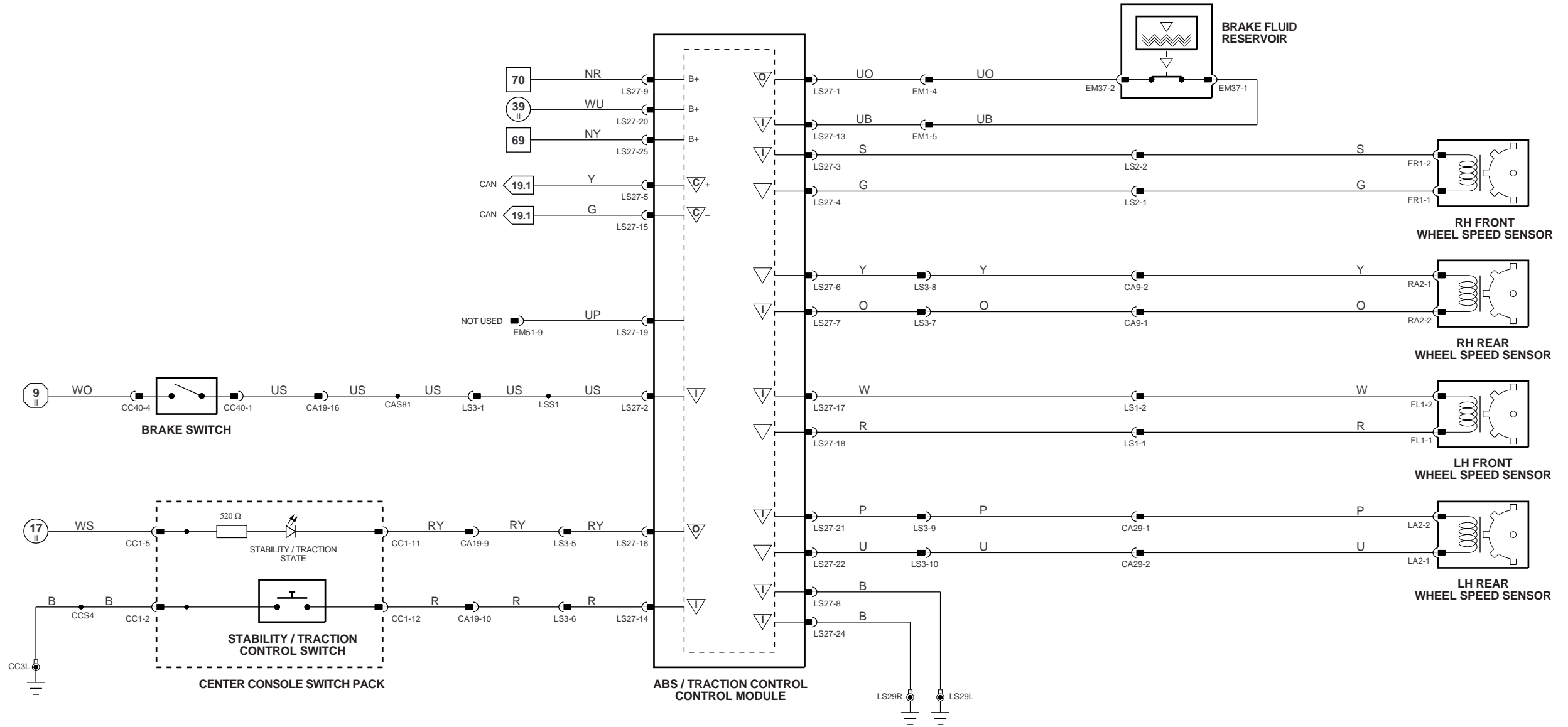
▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

▽ SCP Network

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997

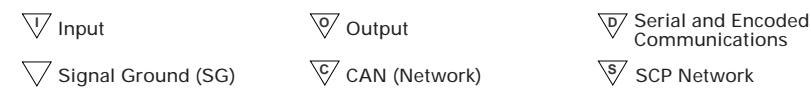
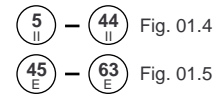
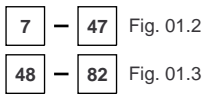
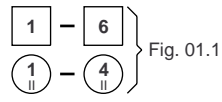
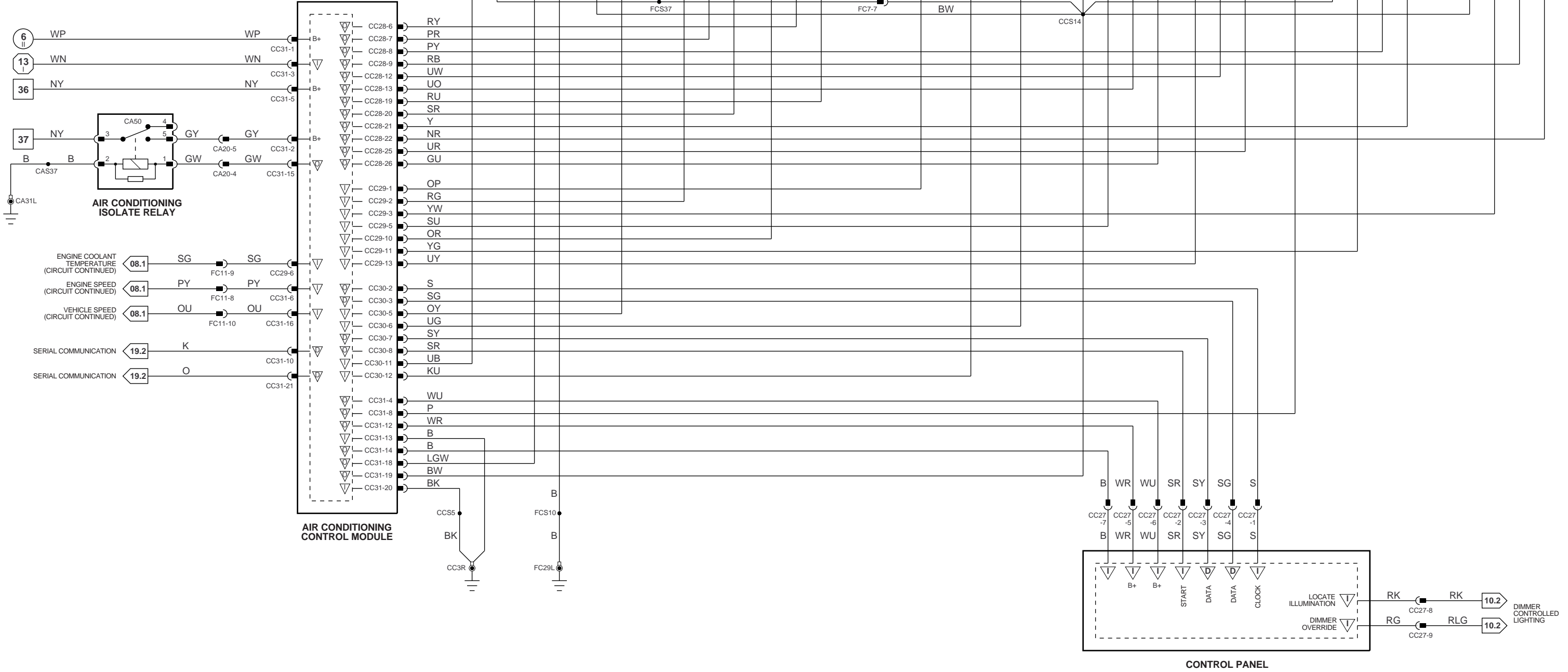
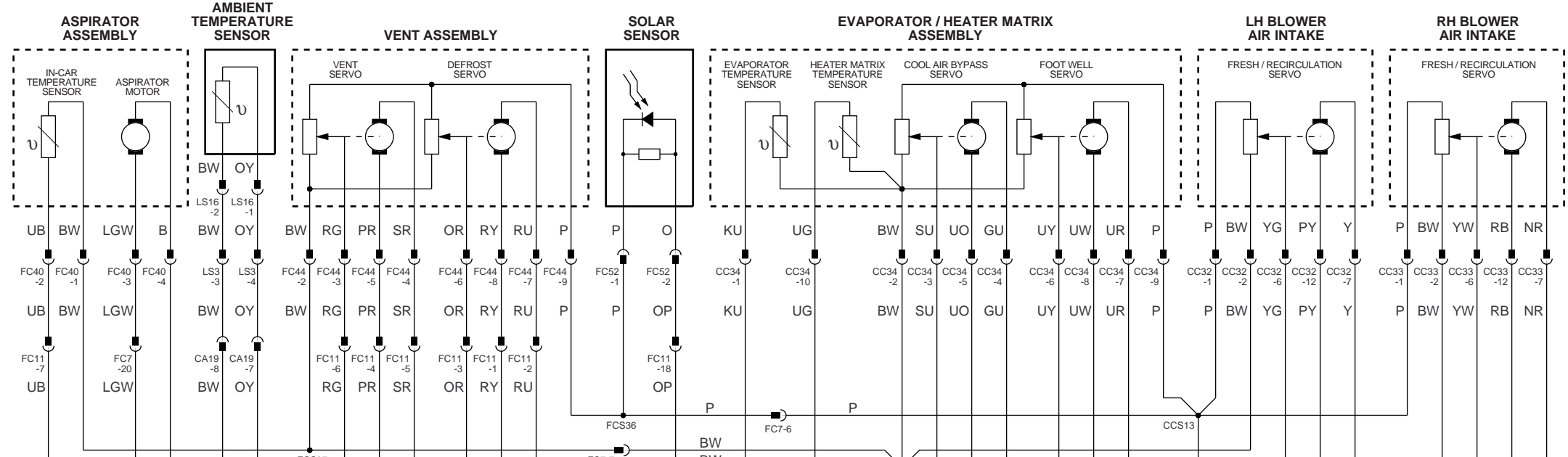


VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

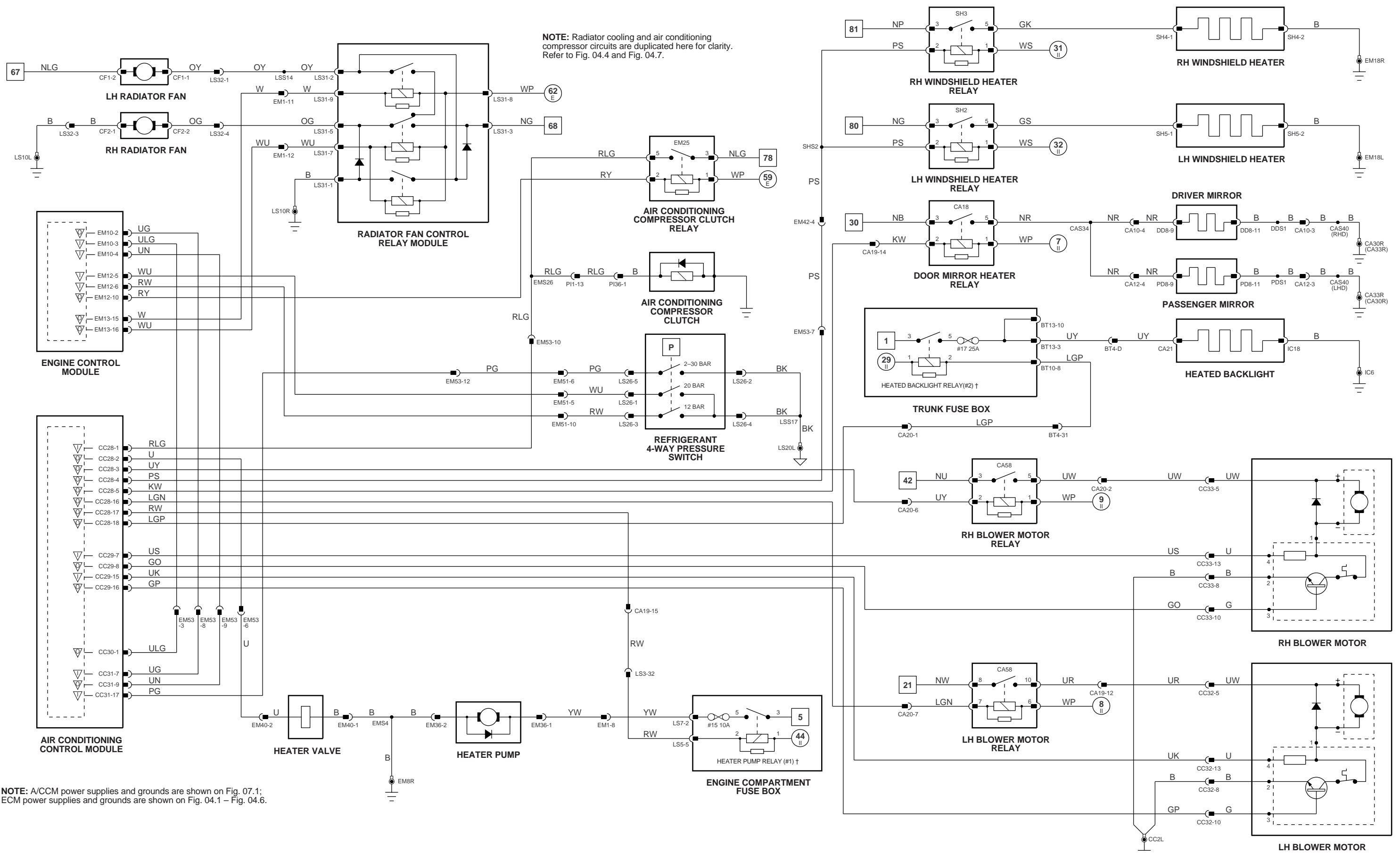


NOTE: When the ignition switched ground input is interrupted during engine cranking, the A/CCM will not drive high power consuming components.

NOTE: The A/C Isolate Relay remains energized by the A/CCM for 30 seconds after the ignition is switched off so that power is supplied for the A/CCM to "park" the servos.



VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



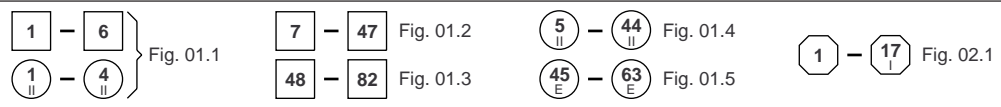
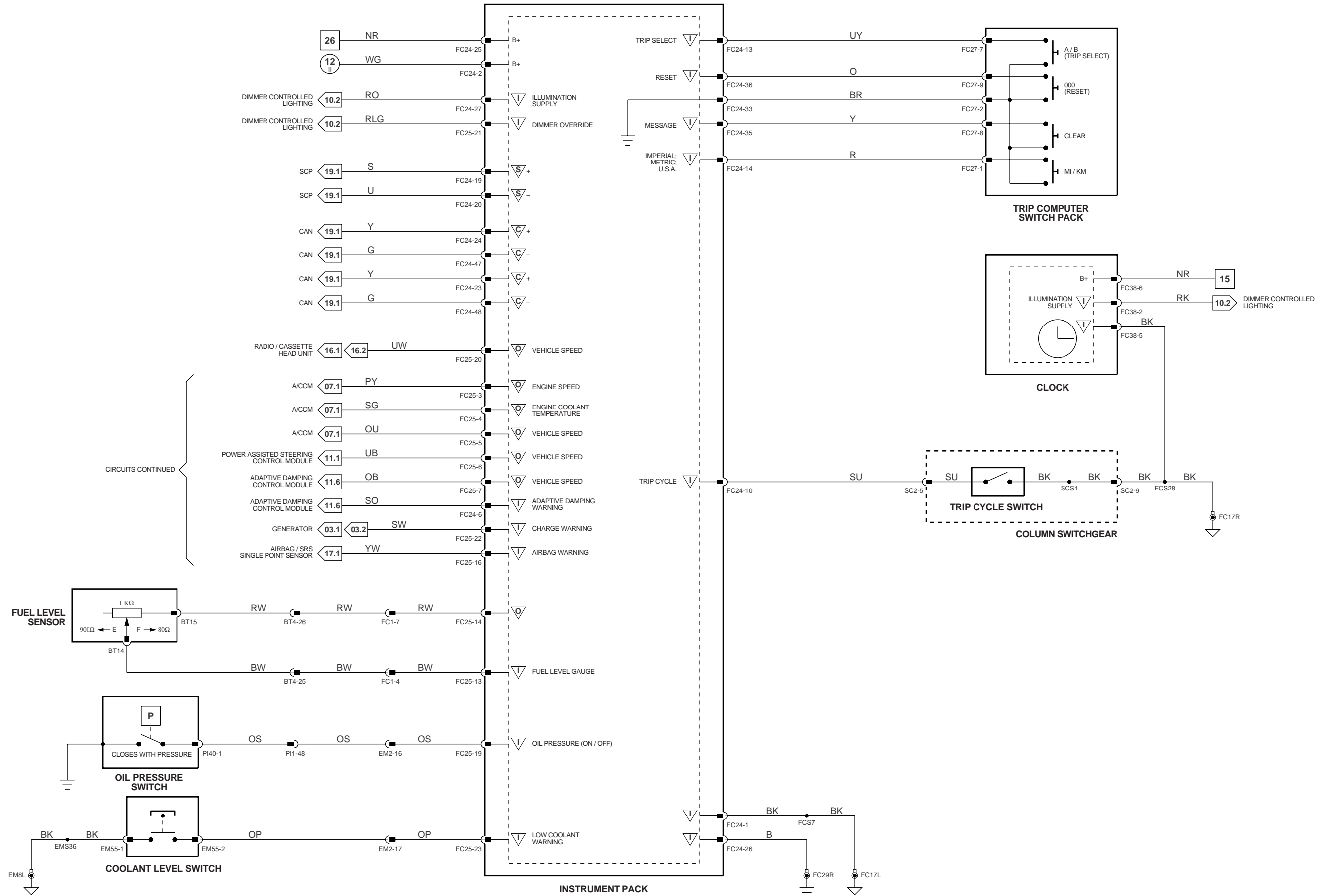
NOTE: Radiator cooling and air conditioning compressor circuits are duplicated here for clarity. Refer to Fig. 04.4 and Fig. 04.7.

NOTE: A/CCM power supplies and grounds are shown on Fig. 07.1: ECM power supplies and grounds are shown on Fig. 04.1 – Fig. 04.6.

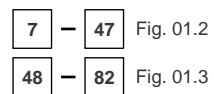
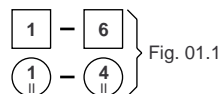
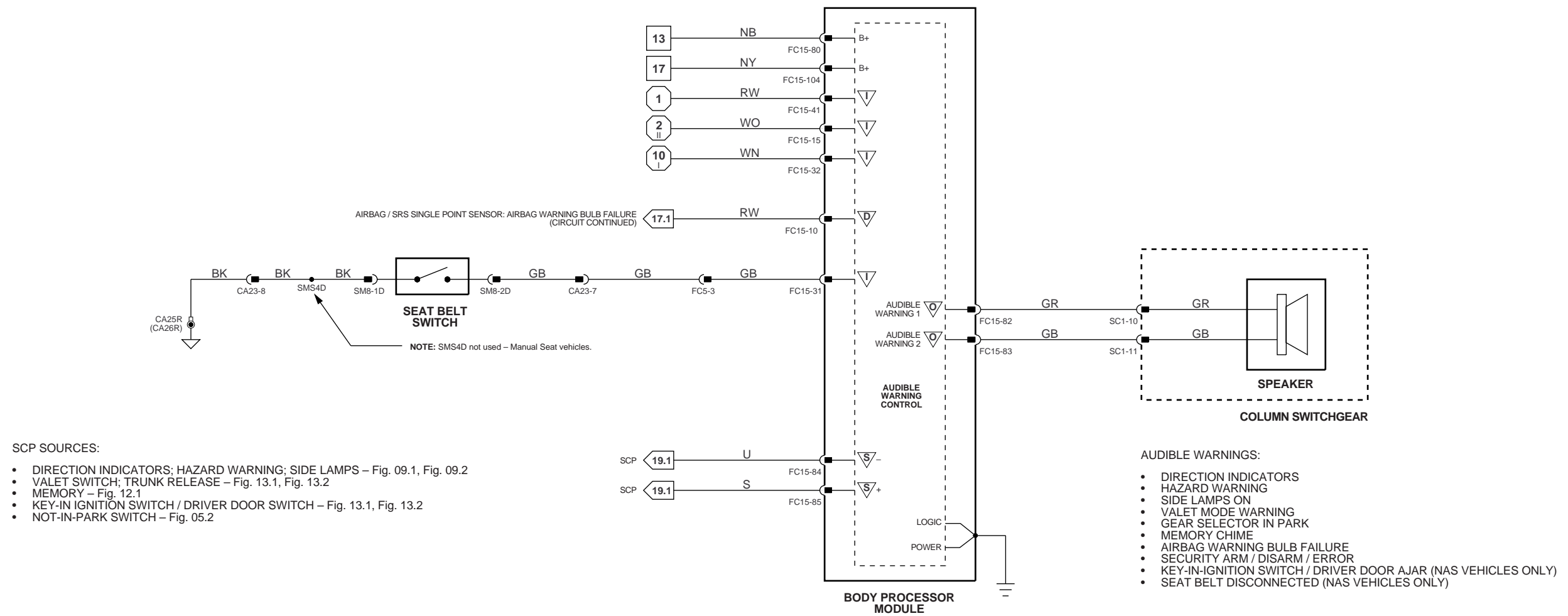
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1	Fig. 01.2	Fig. 01.4	Fig. 02.1	Input	Output	Serial and Encoded Communications
Fig. 01.1	Fig. 01.3	Fig. 01.5		Signal Ground (SG)	CAN (Network)	SCP Network

VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



▽ Input

▽ Signal Ground (SG)

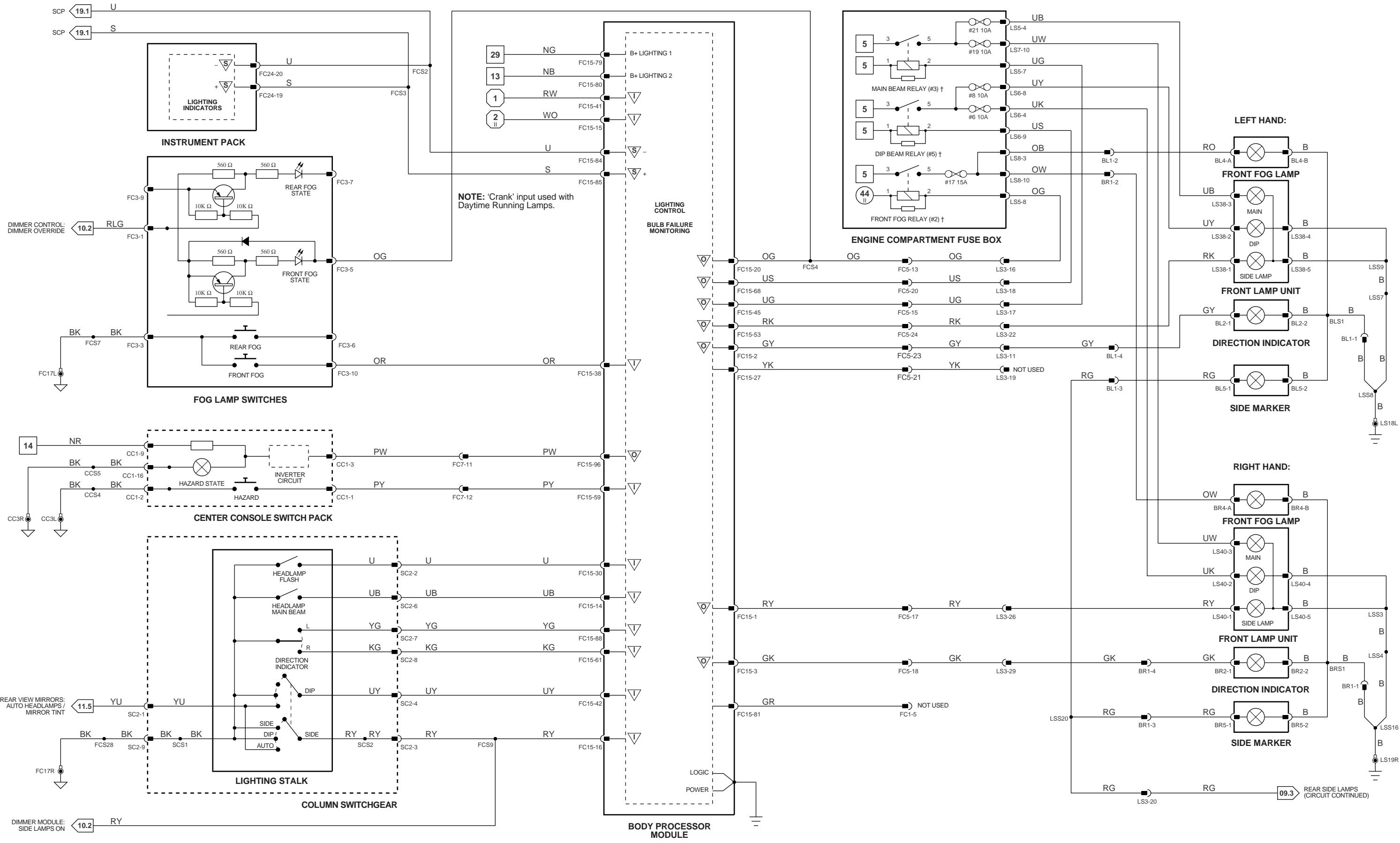
▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

▽ SCP Network

VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



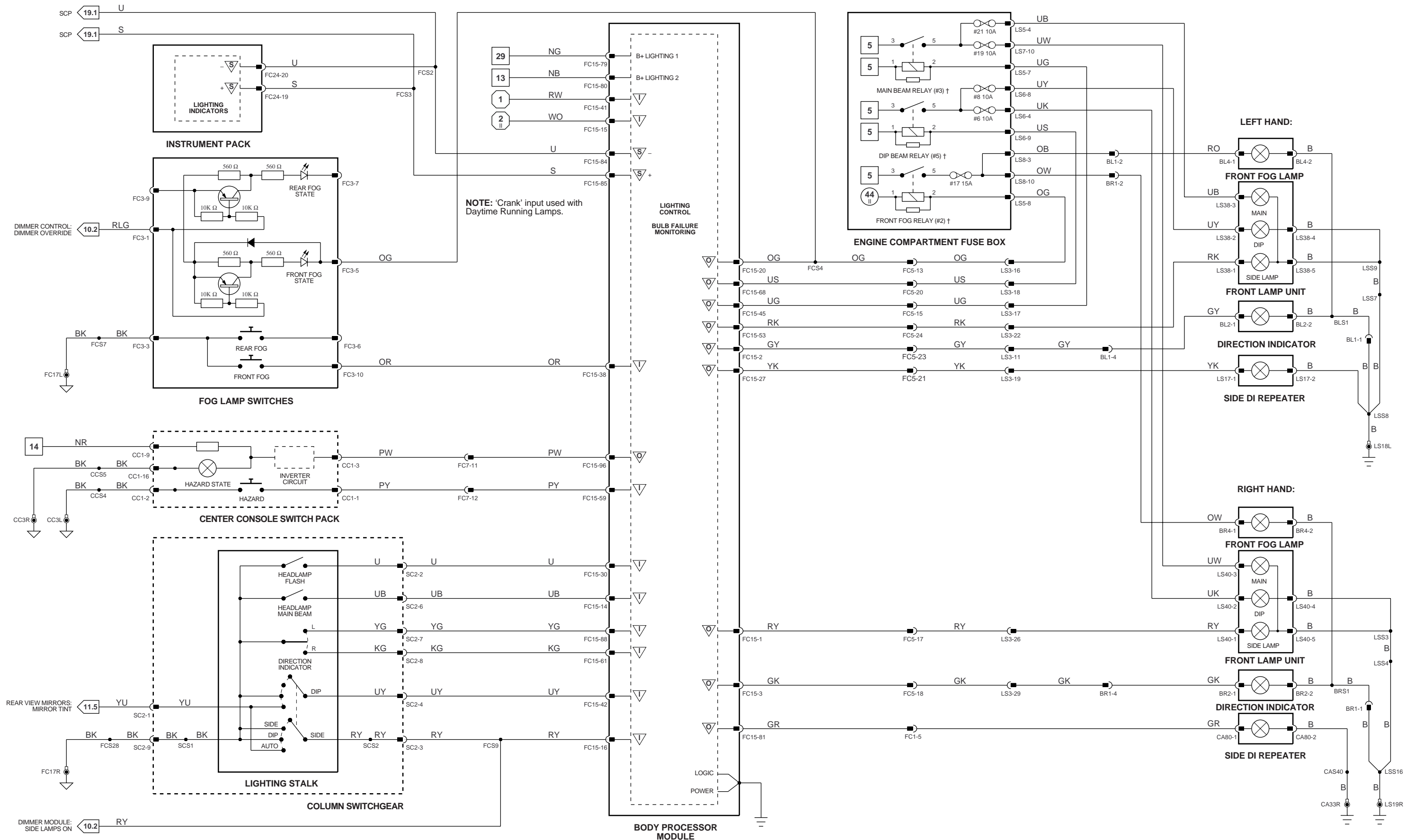
NOTE: 'Crank' input used with Daytime Running Lamps.

NOTES: DI bulb failure – BPM internal function. Daytime running lamps – BPM programmed function.

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1	Fig. 01.2	Fig. 01.4	Fig. 02.1			
	Fig. 01.3	Fig. 01.5				

VARIANT: NAS Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997

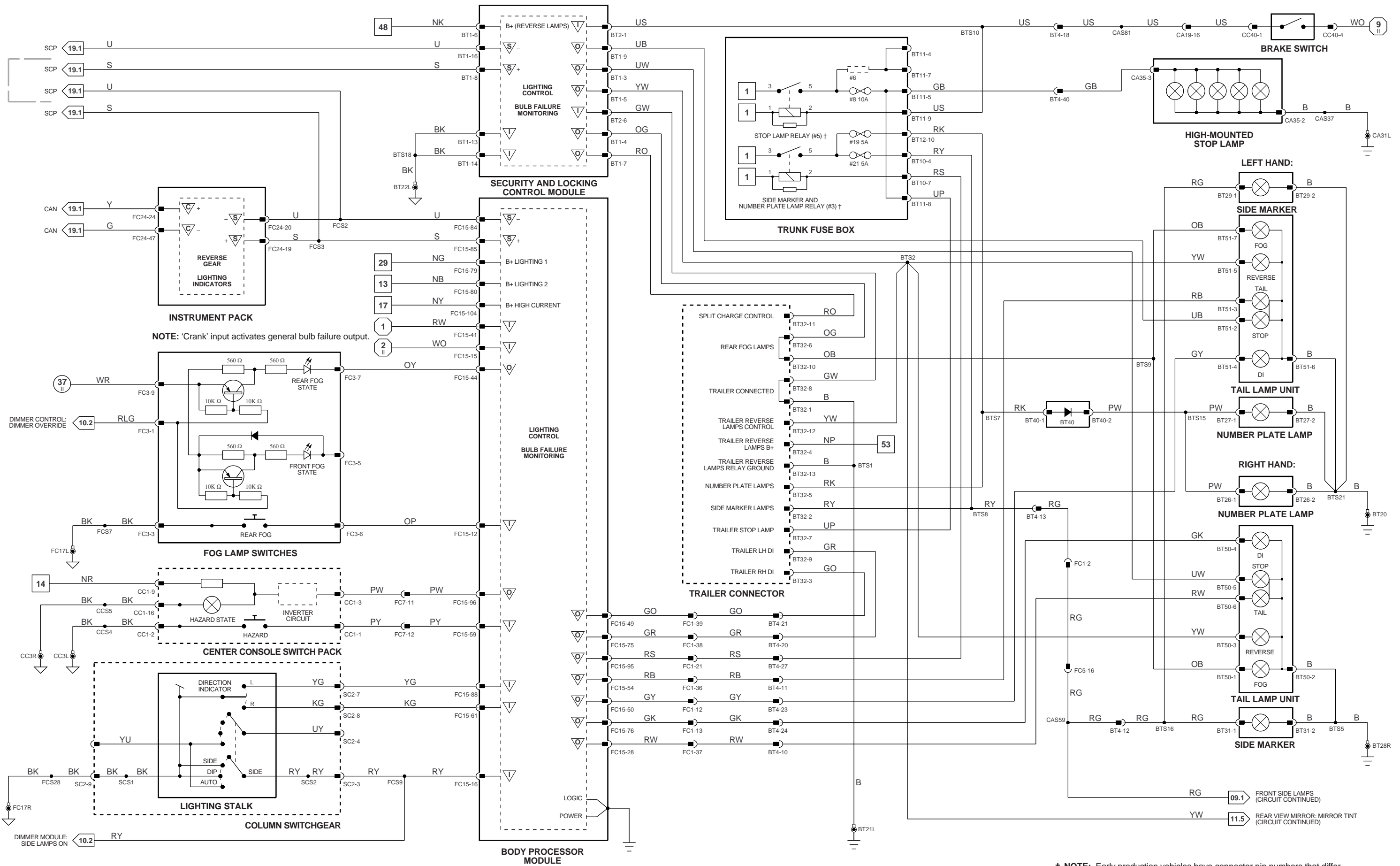


NOTE: 'Crank' input used with Daytime Running Lamps.

NOTES:
 DI bulb failure – BPM internal function.
 Daytime running lamps – BPM programmed function.

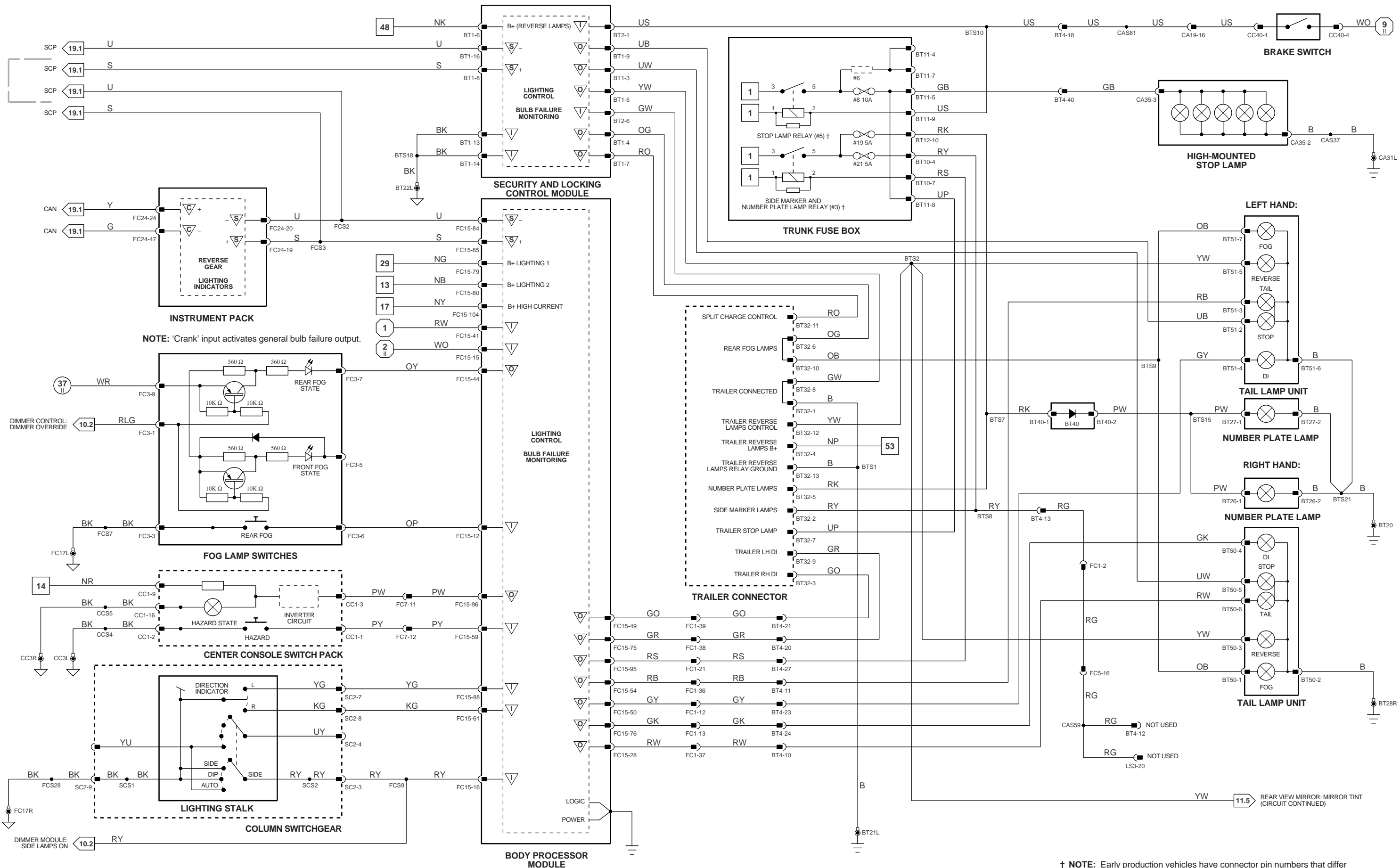
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

	Fig. 01.1 Fig. 01.2 Fig. 01.3 Fig. 01.4 Fig. 01.5 Fig. 02.1	▽ Input ▽ Signal Ground (SG)	▽ Output ▽ CAN (Network)	▽ Serial and Encoded Communications ▽ SCP Network	VARIANT: ROW Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997
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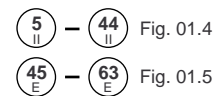
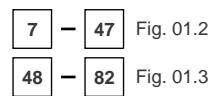
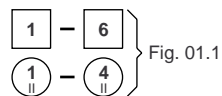
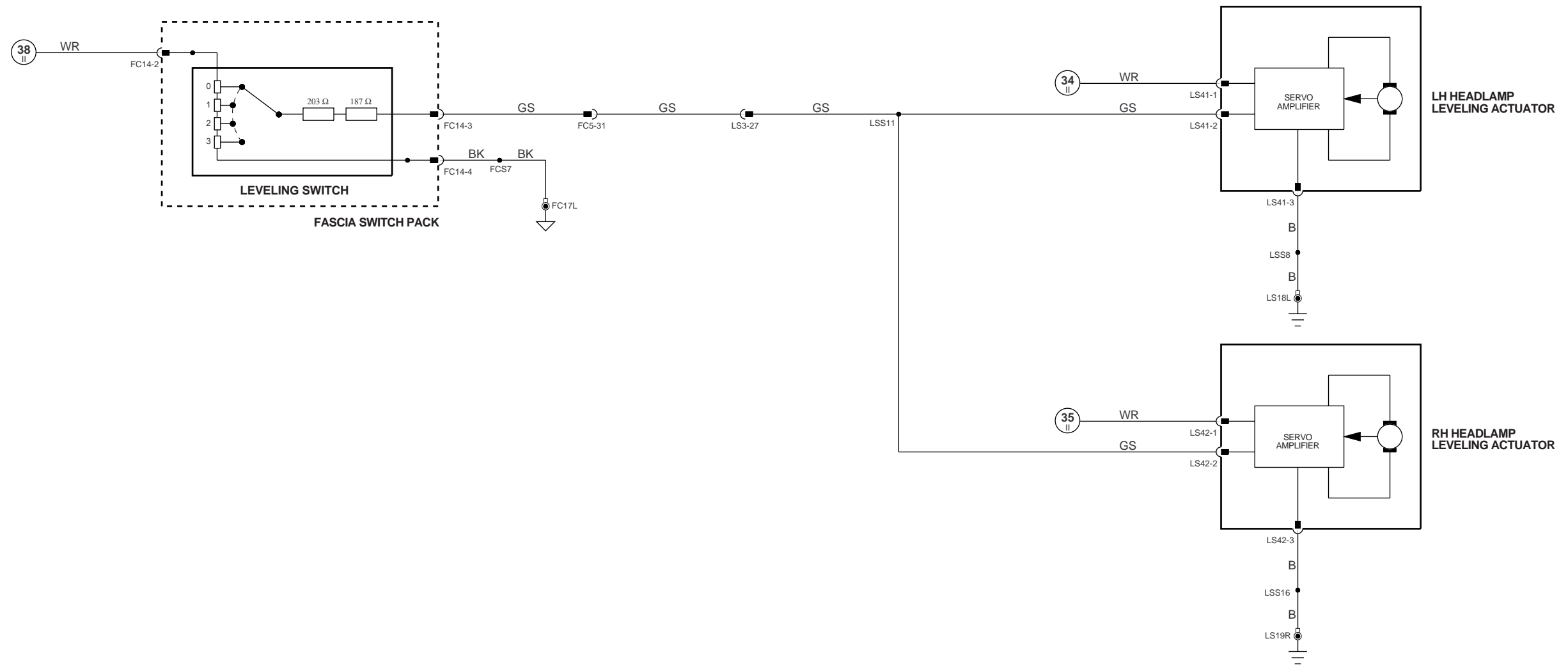
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1 Fig. 01.1	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	<p>VARIANT: NAS Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997</p>
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† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

Fig. 01.1 Fig. 01.1	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	VARIANT: ROW Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997
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▽ Input

▽ Output

▽ Serial and Encoded Communications

▽ Signal Ground (SG)

▽ CAN (Network)

▽ SCP Network

VARIANT: Headlamp Leveling Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



NOTE: 'Crank' input is used to switch off interior lamps during engine cranking.

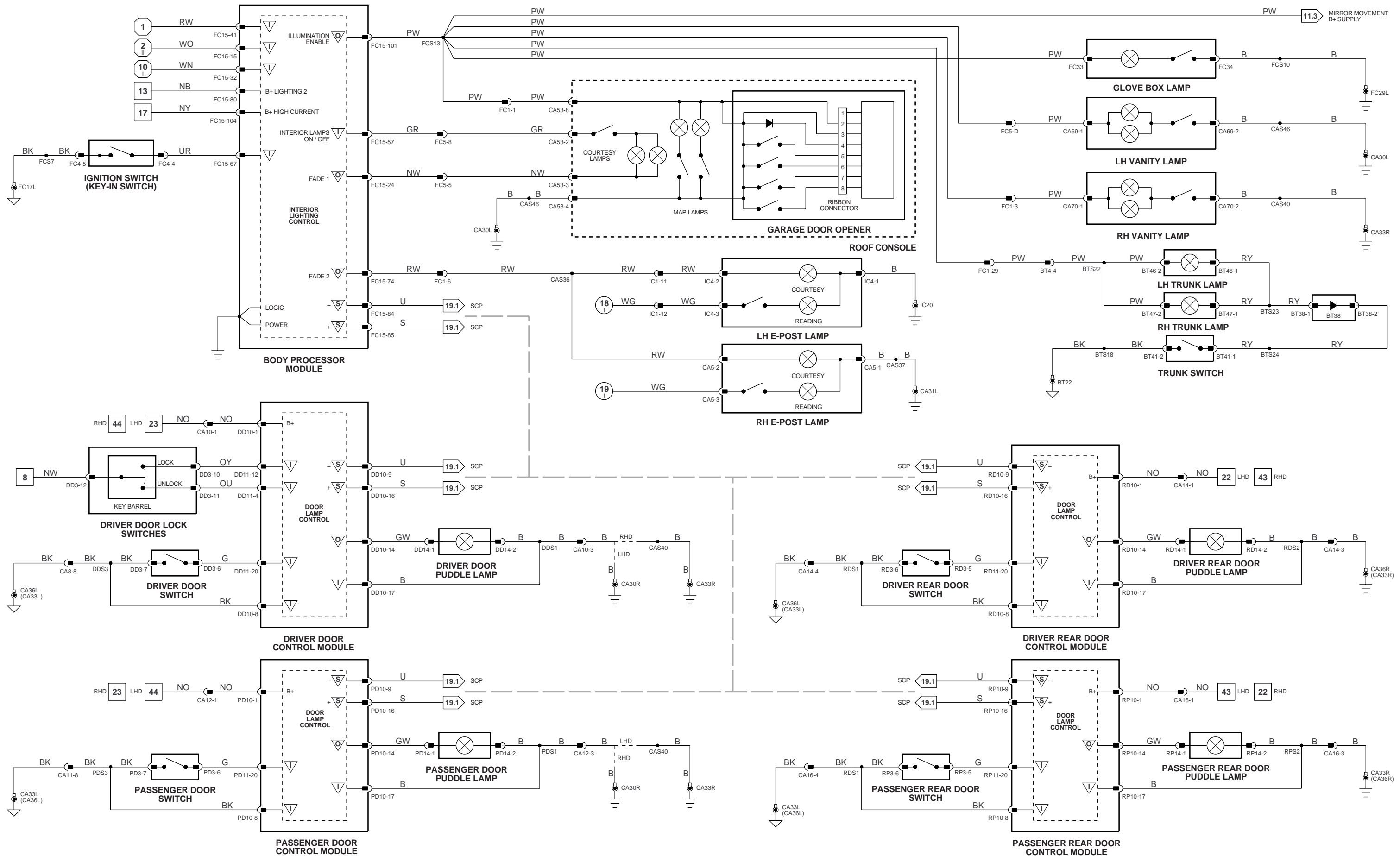
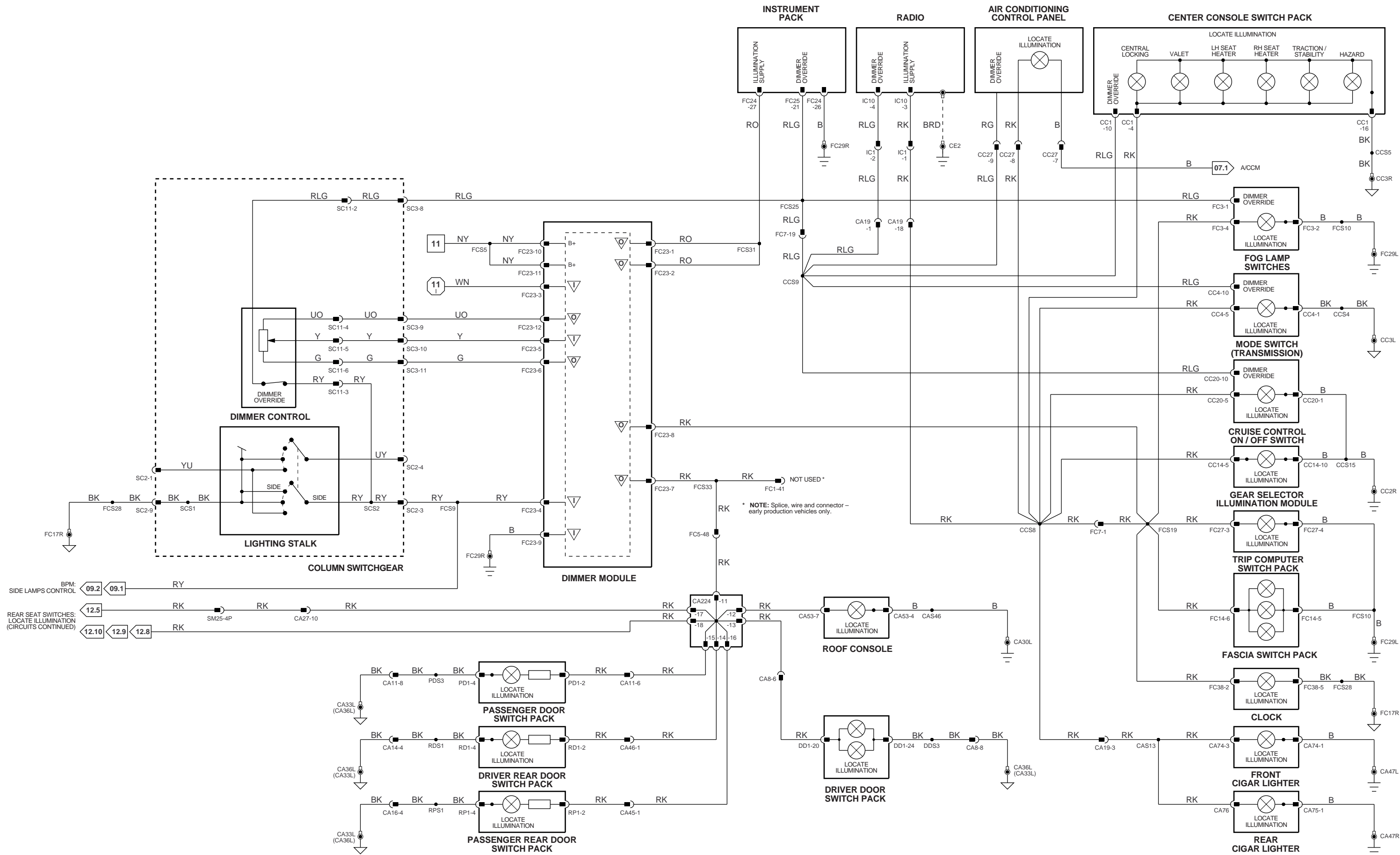


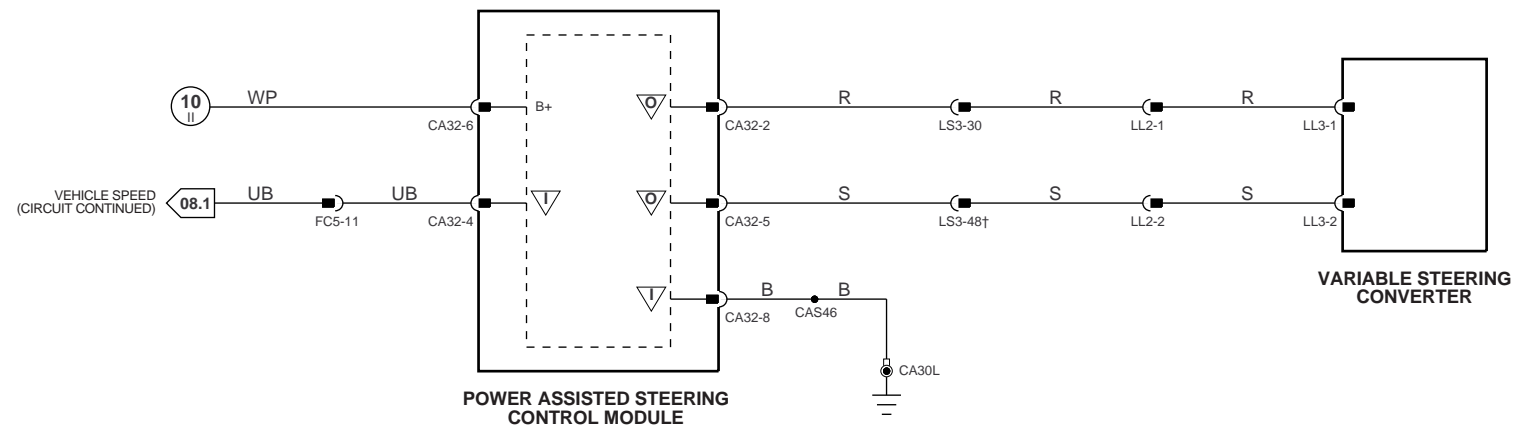
Fig. 01.1 Fig. 01.1	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	VARIANT: All Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997
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* NOTE: Splice, wire and connector - early production vehicles only.

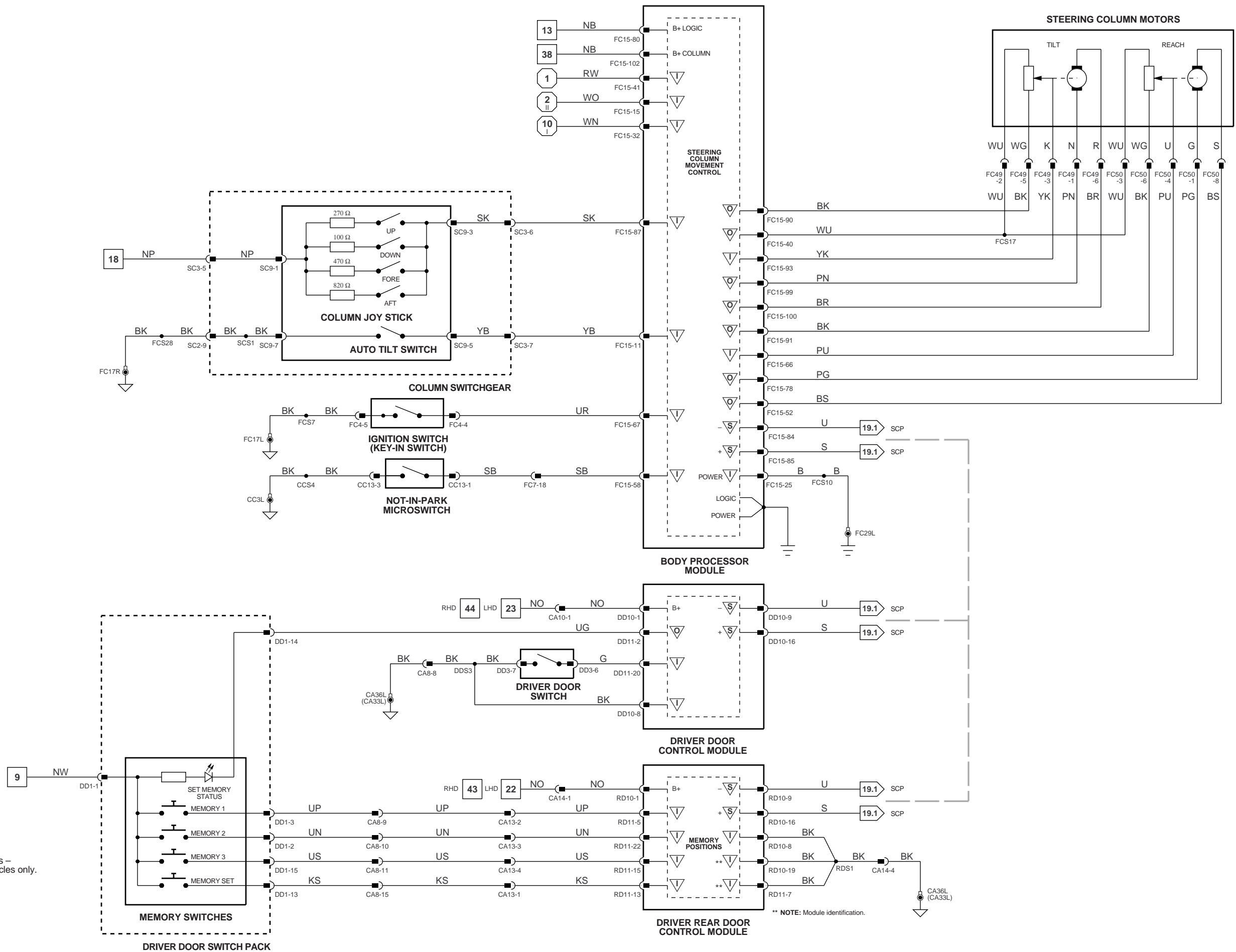
Fig. 01.1	Fig. 01.2	Fig. 01.4	Fig. 02.1	Input	Output	Serial and Encoded Communications
Fig. 01.1	Fig. 01.3	Fig. 01.5		Signal Ground (SG)	CAN (Network)	SCP Network

VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



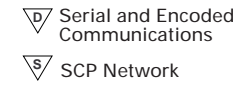
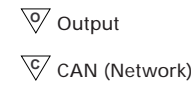
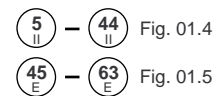
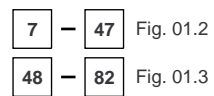
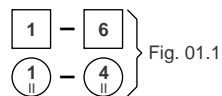
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

	<p>Fig. 01.1</p> <p>Fig. 01.2</p> <p>Fig. 01.3</p>	<p>Fig. 01.4</p> <p>Fig. 01.5</p> <p>Fig. 02.1</p>	<p>▽ Input</p> <p>▽ Signal Ground (SG)</p>	<p>▽ Output</p> <p>▽ CAN (Network)</p>	<p>▽ Serial and Encoded Communications</p> <p>▽ SCP Network</p>	<p>VARIANT: All Vehicles</p> <p>VIN RANGE: All</p> <p>DATE OF ISSUE: SEPTEMBER 1997</p>
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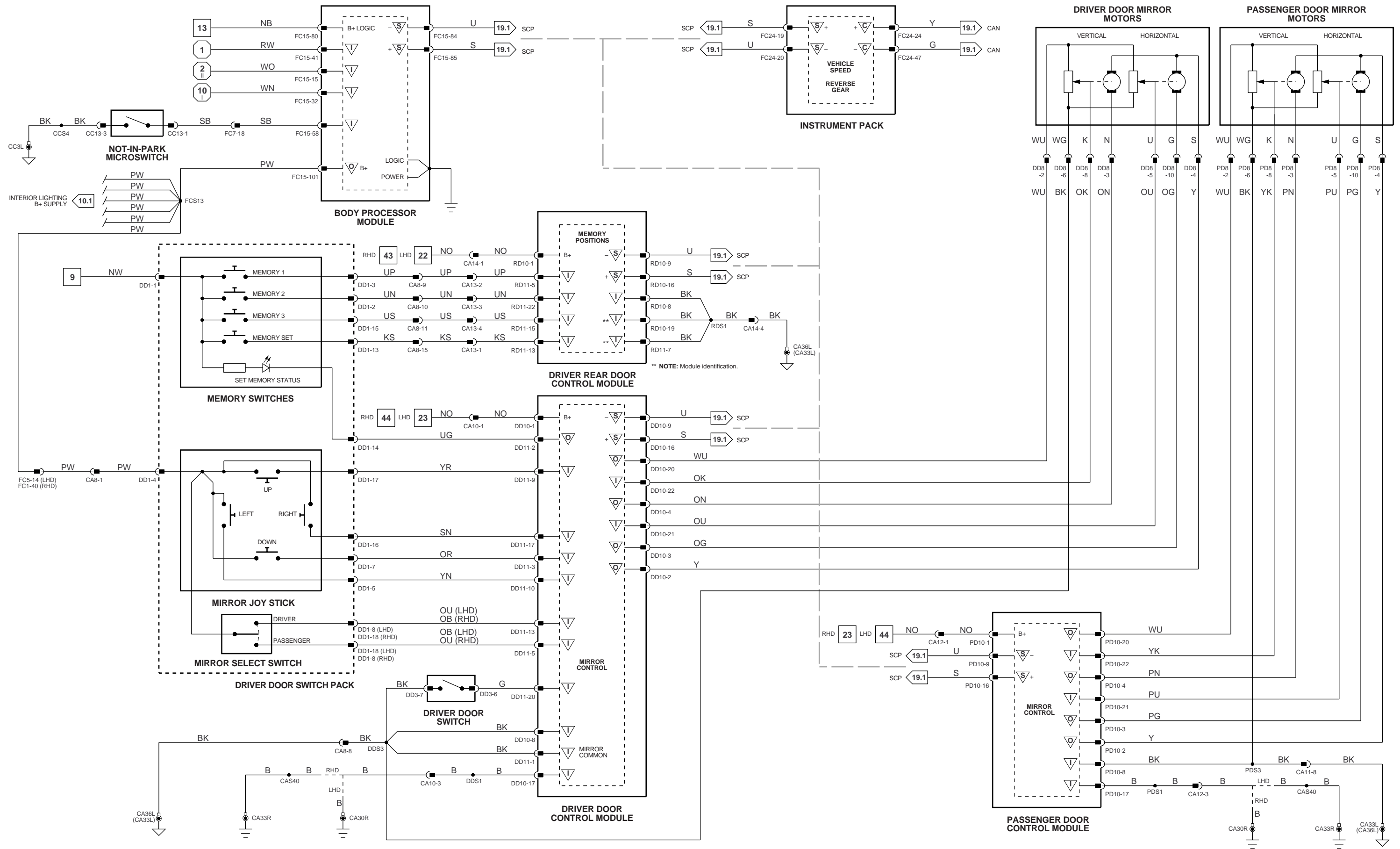


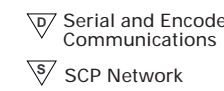
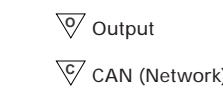
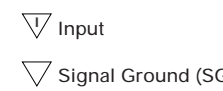
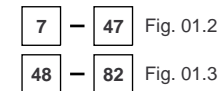
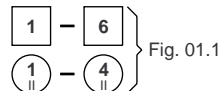
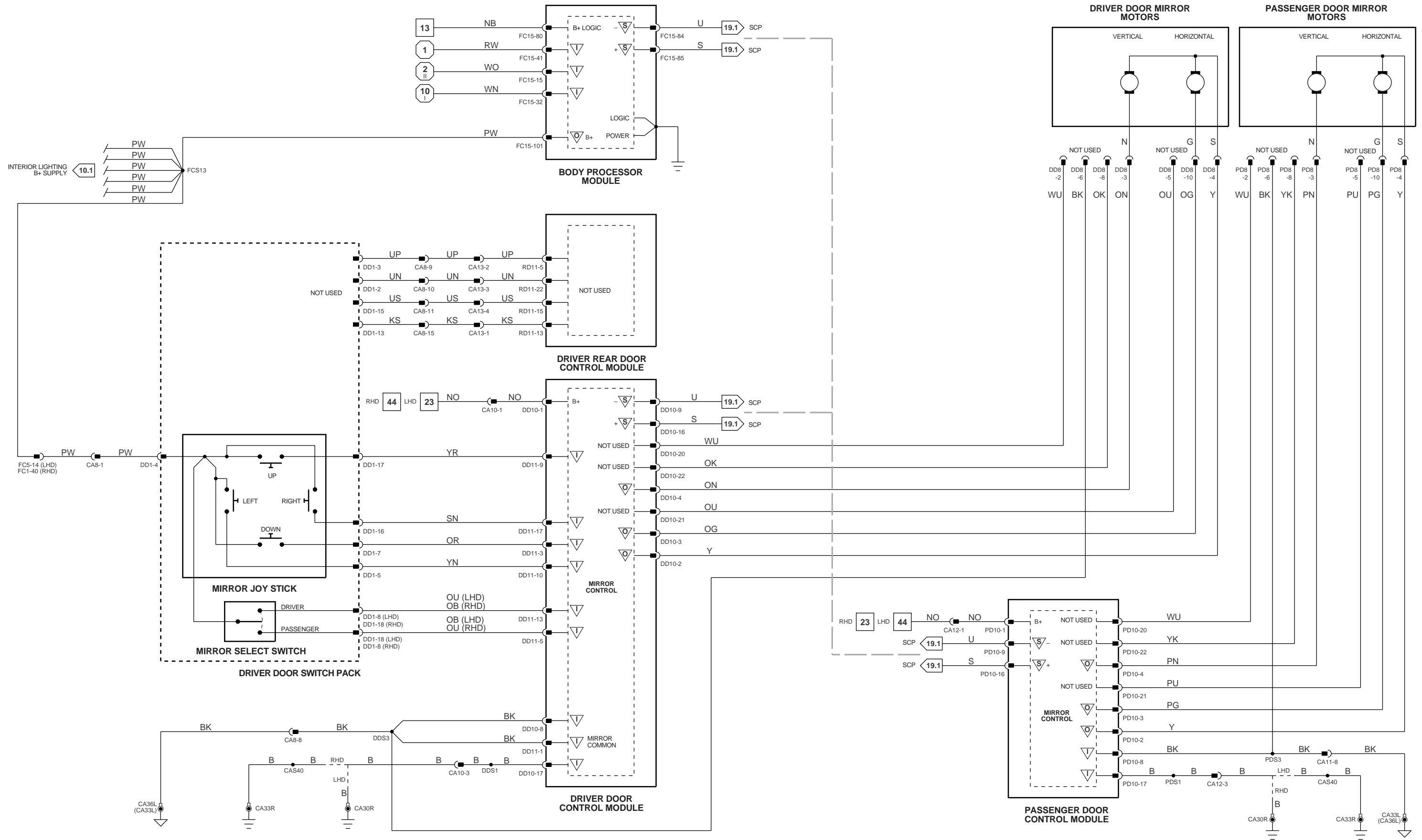
NOTE: Memory switches – driver memory seat vehicles only.

** NOTE: Module identification.



VARIANT: Powered Column Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

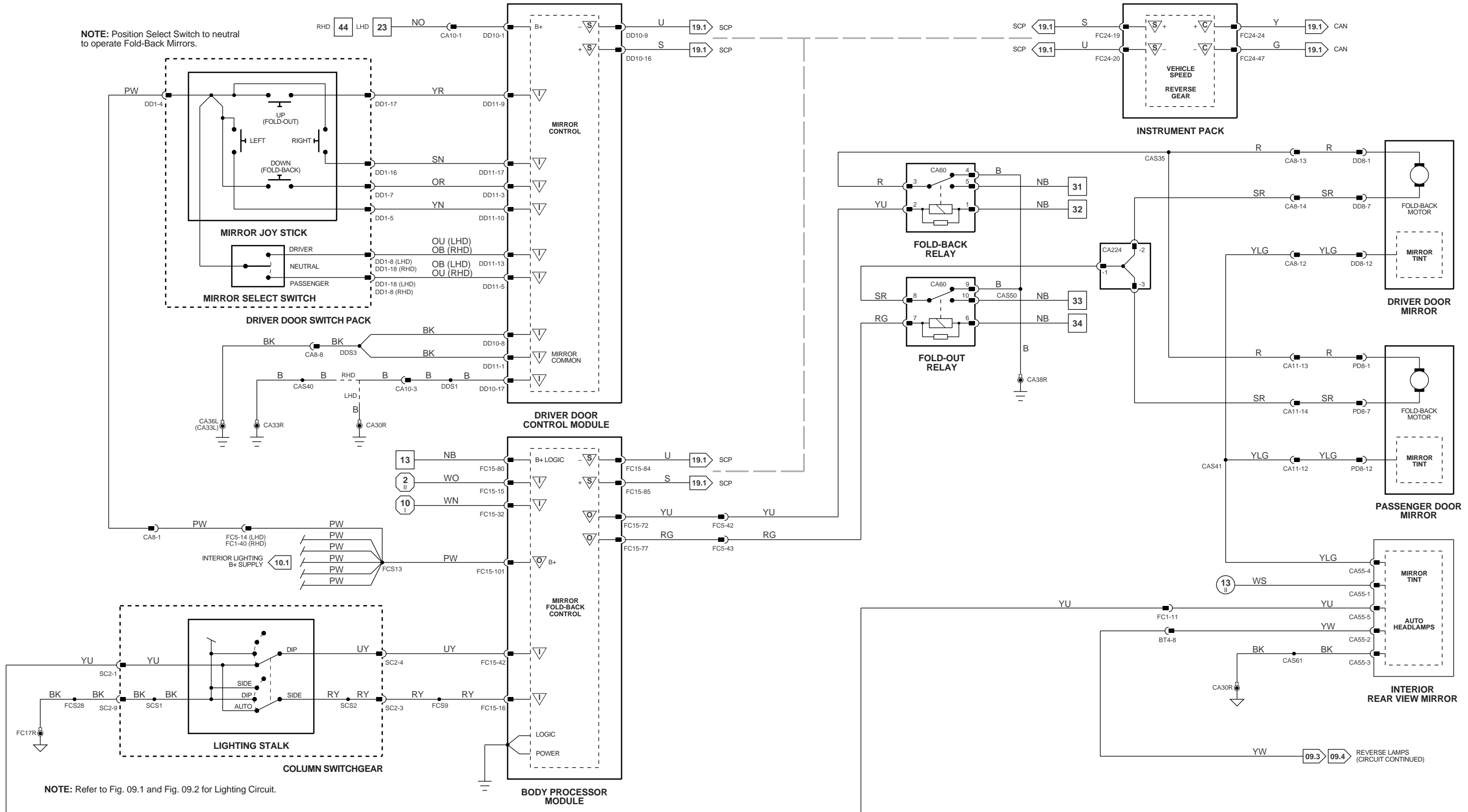




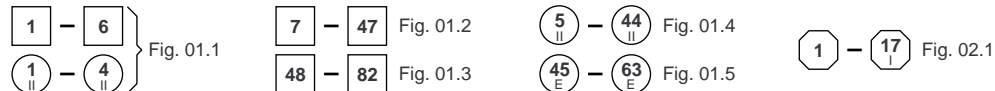
VARIANT: Non-Memory Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



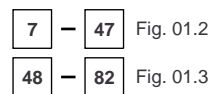
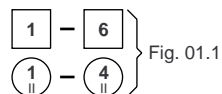
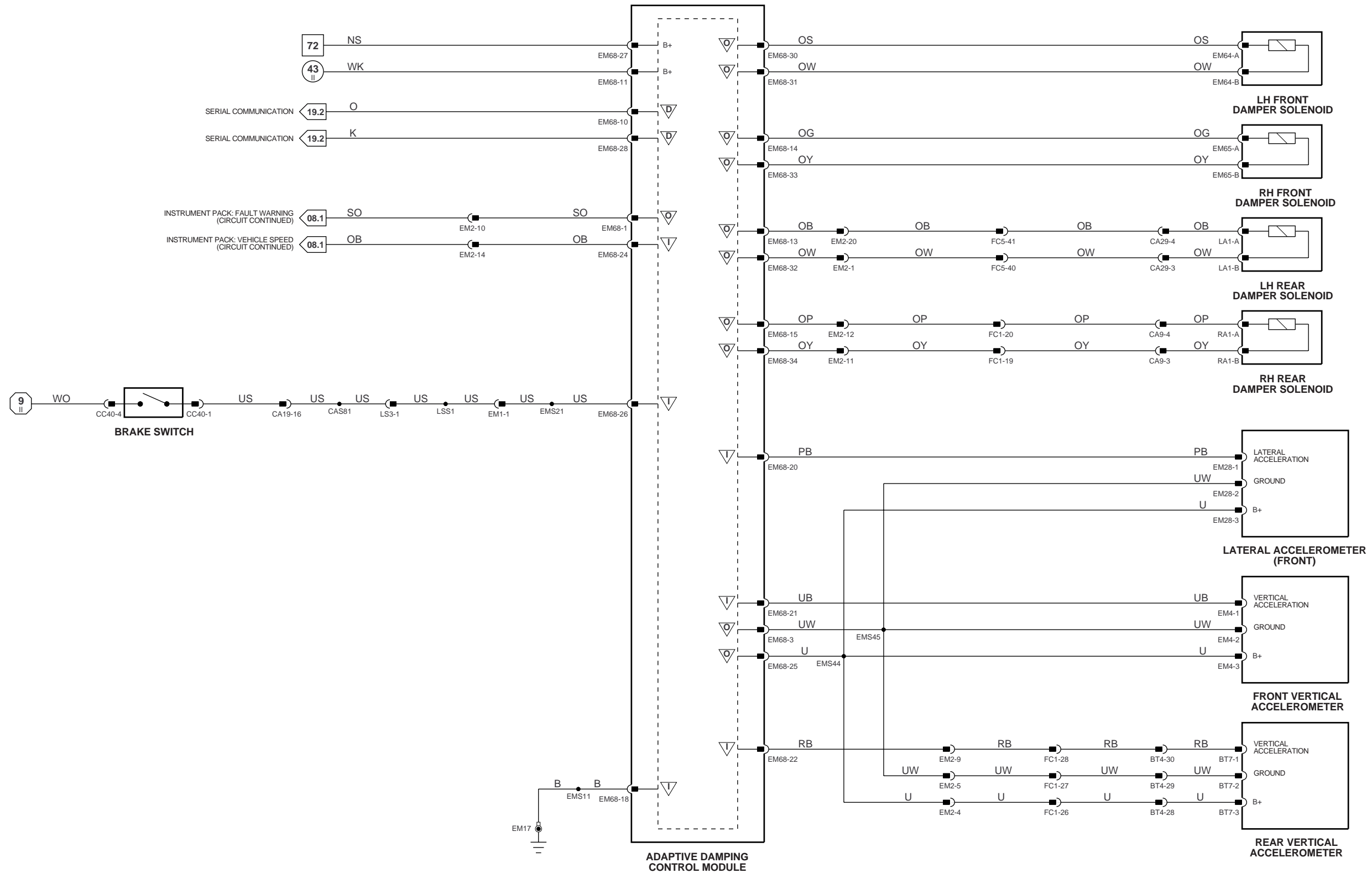
NOTE: Position Select Switch to neutral to operate Fold-Back Mirrors.



NOTE: Refer to Fig. 09.1 and Fig. 09.2 for Lighting Circuit.



VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



▽ Input

▽ Signal Ground (SG)

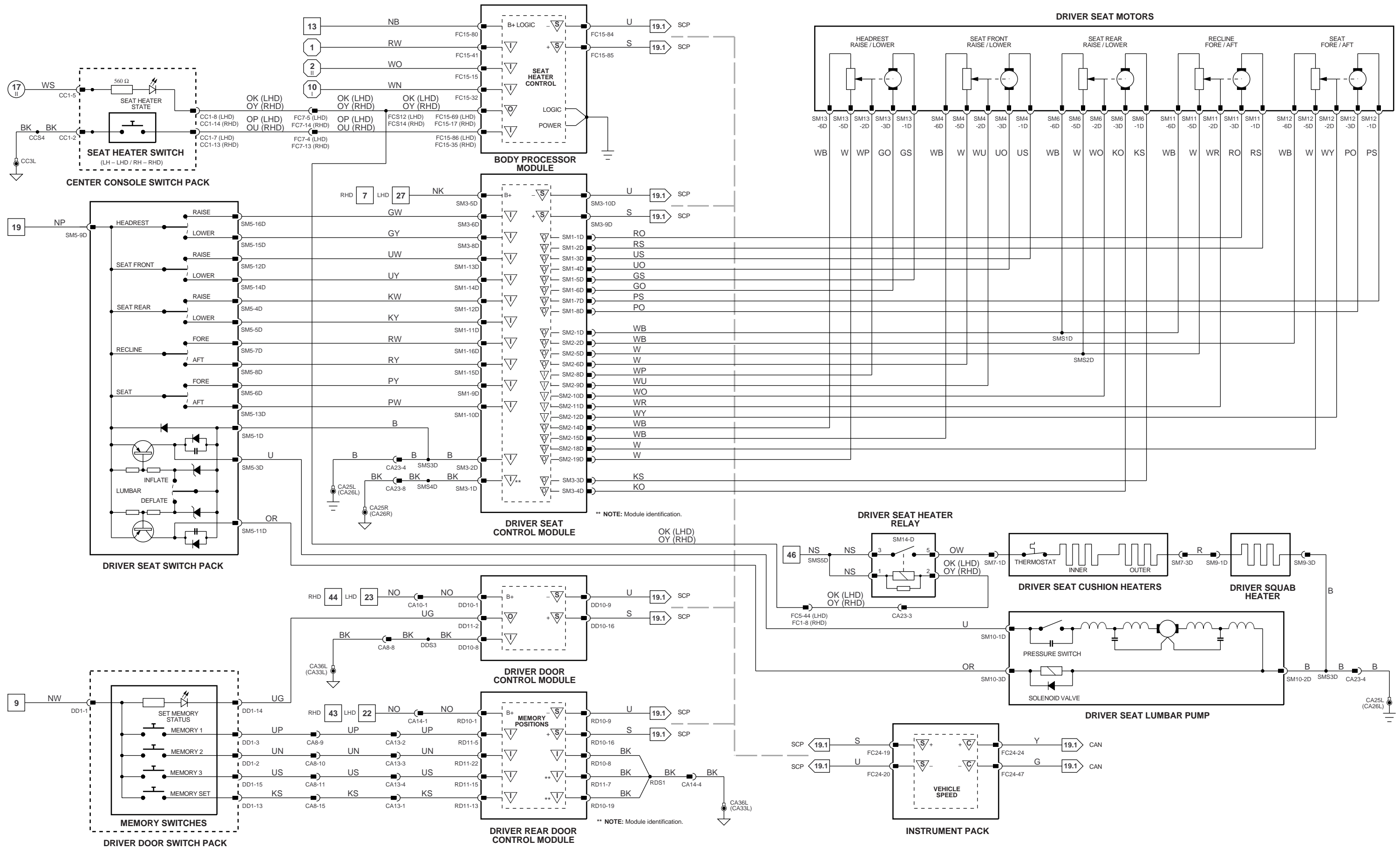
▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

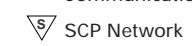
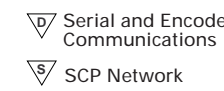
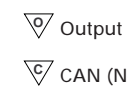
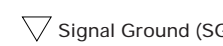
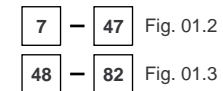
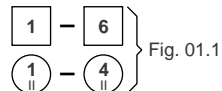
▽ SCP Network

VARIANT: Adaptive Damping Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

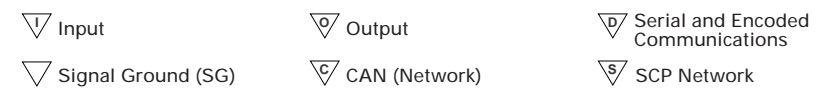
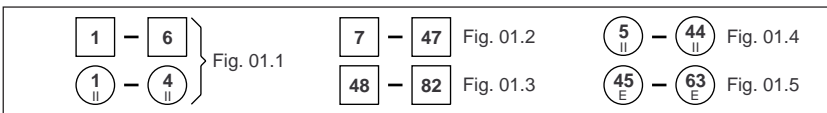
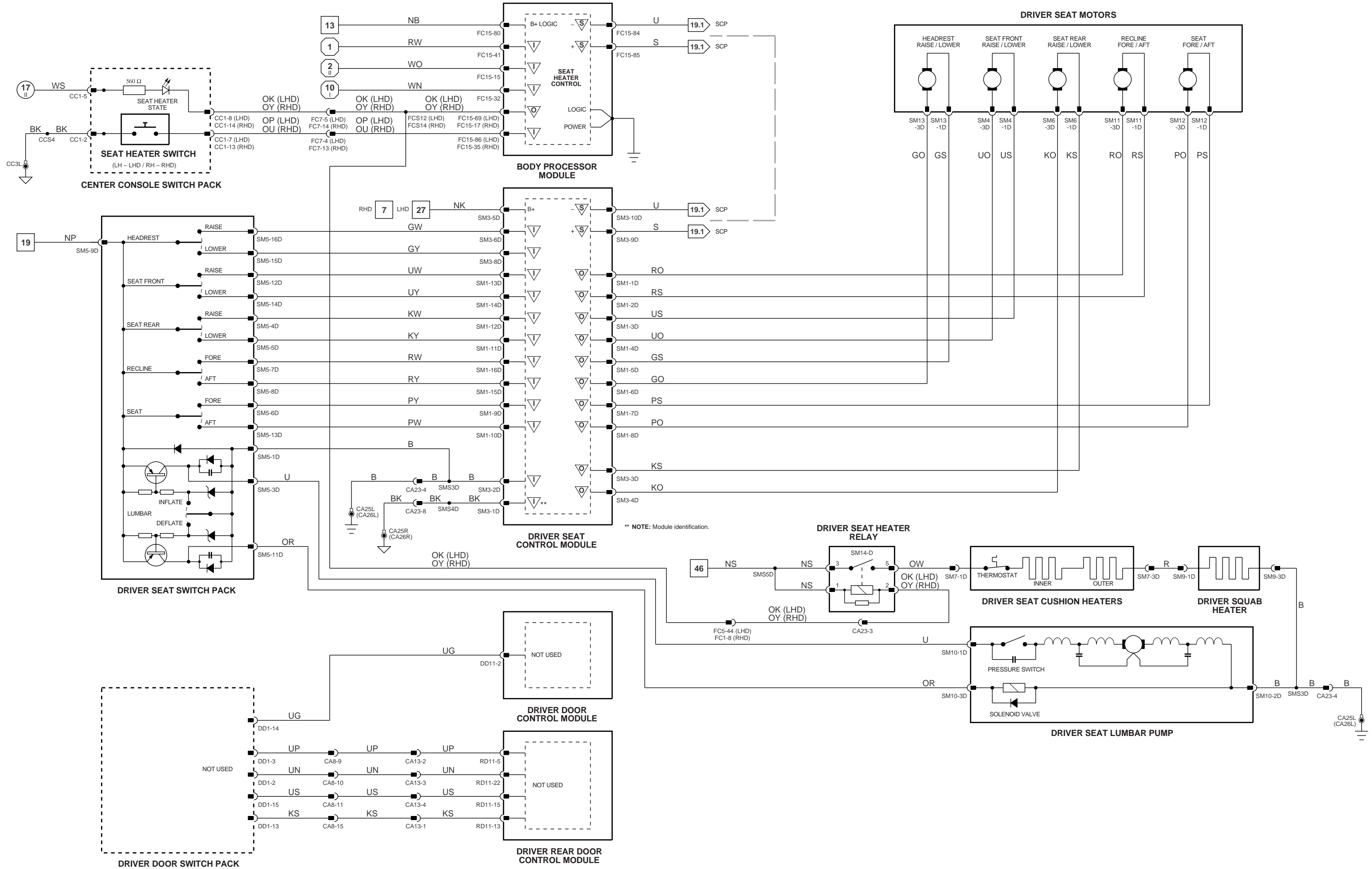


** NOTE: Module identification.

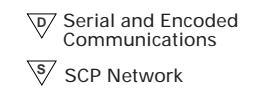
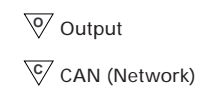
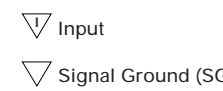
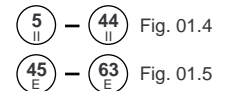
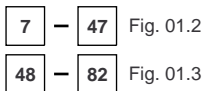
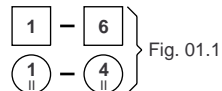
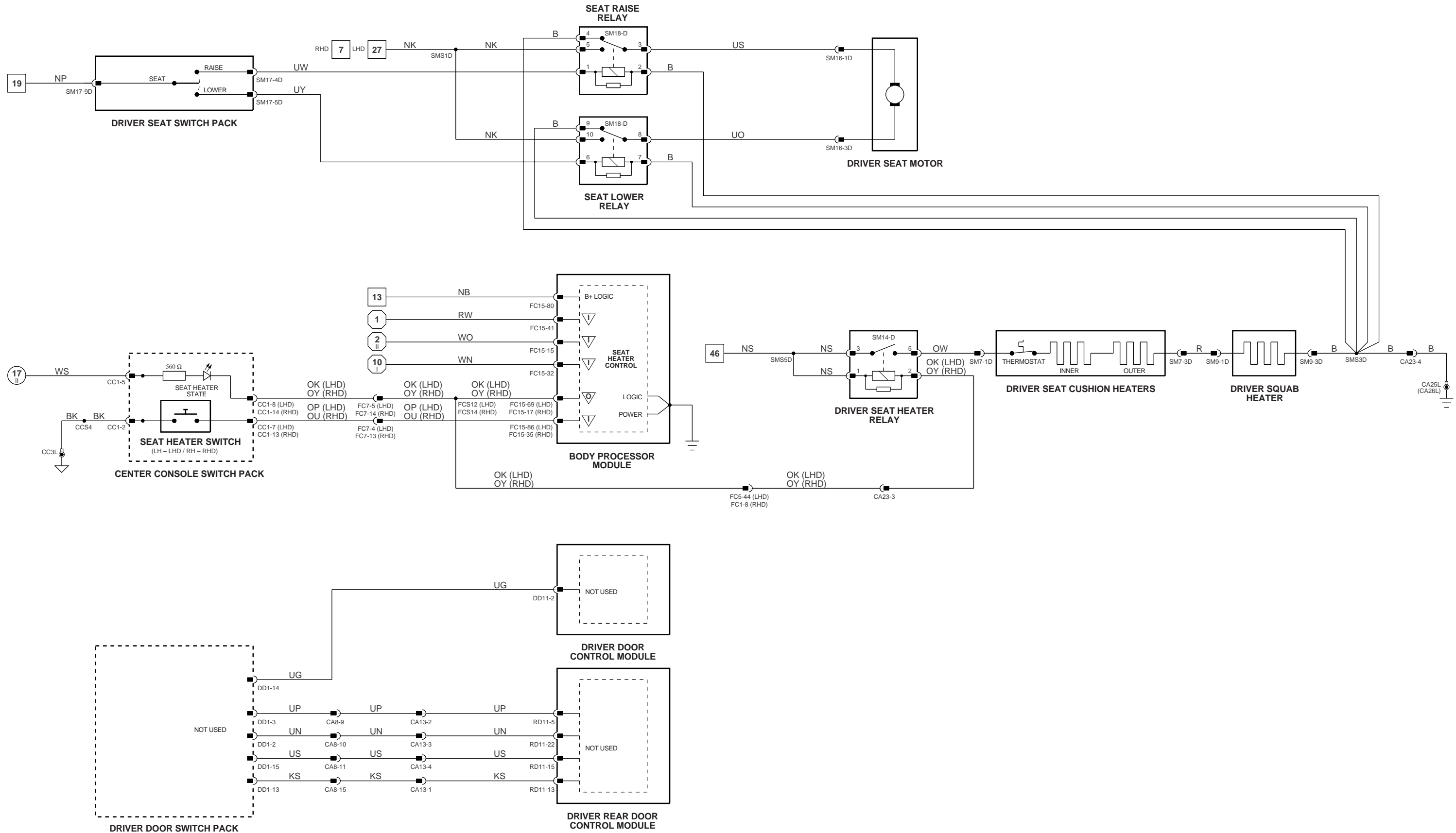
** NOTE: Module identification.



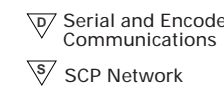
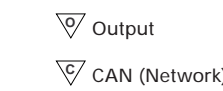
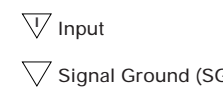
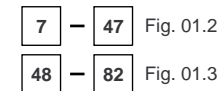
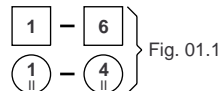
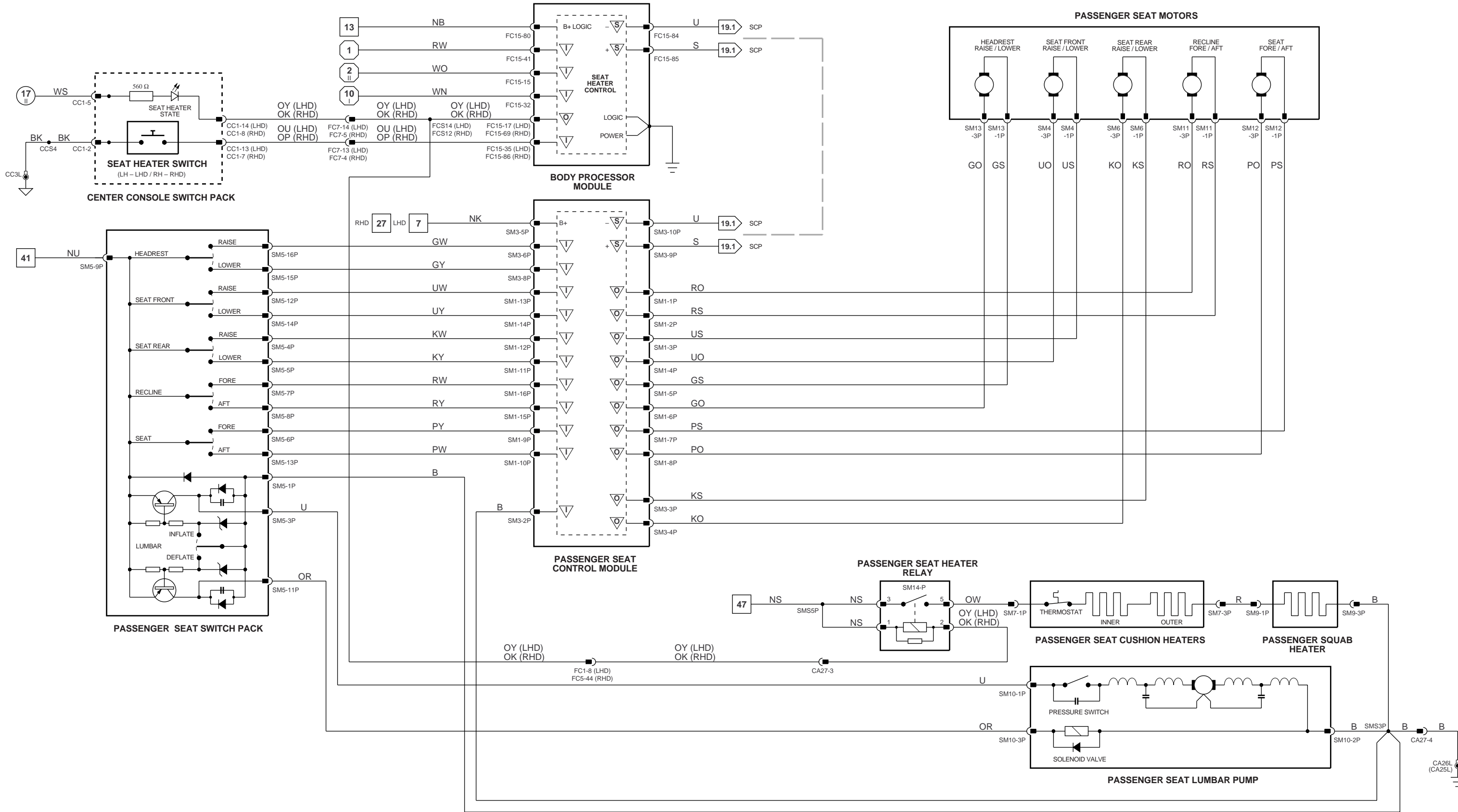
VARIANT: Driver Memory Seat Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



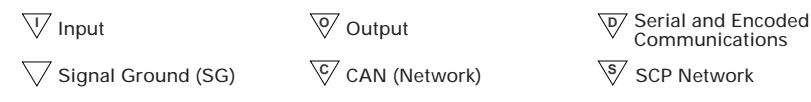
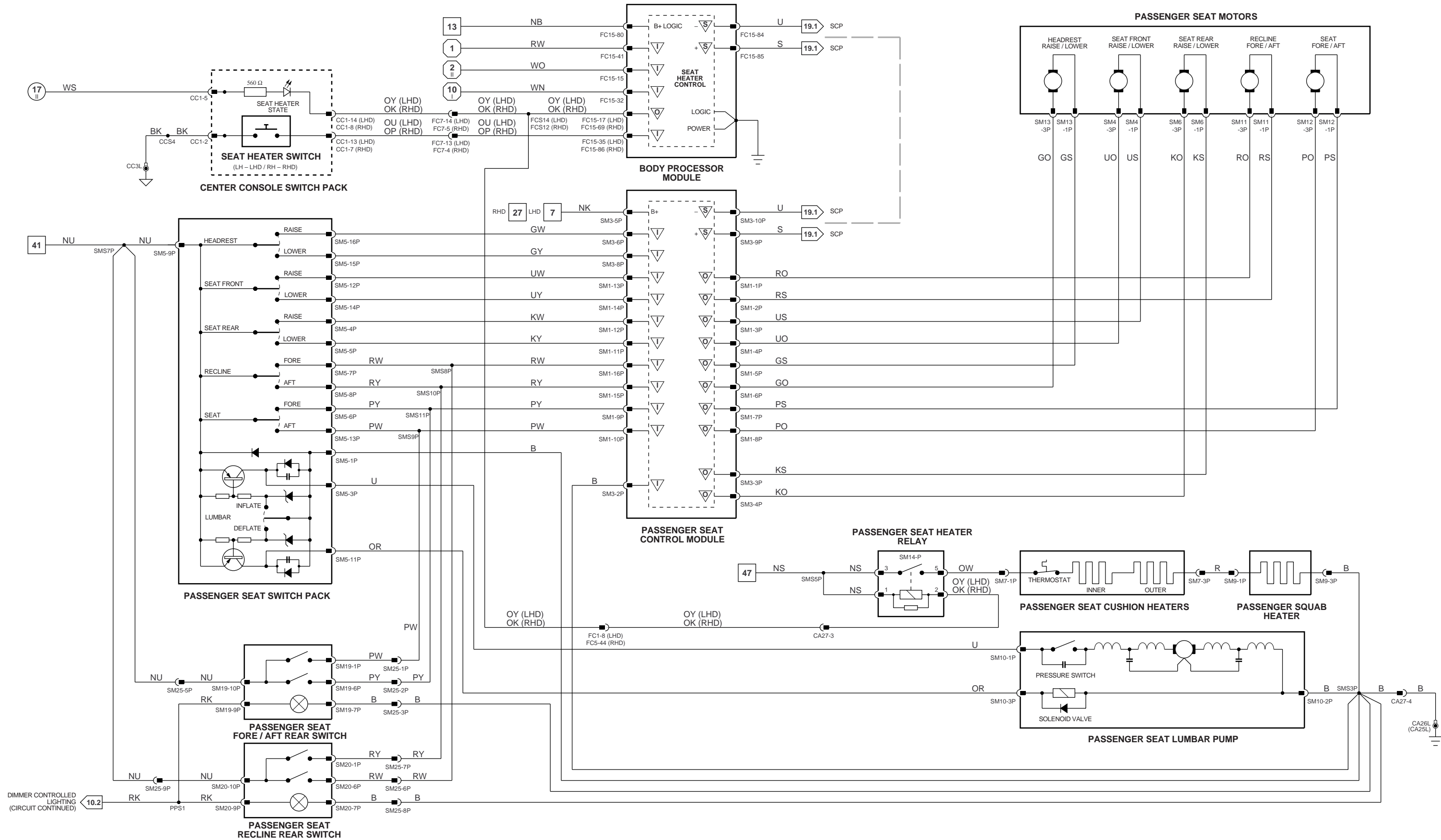
VARIANT: Driver 5-Way Powered Seat Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



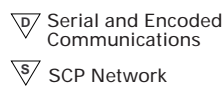
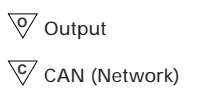
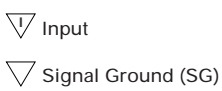
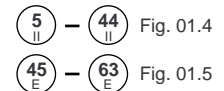
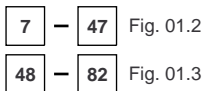
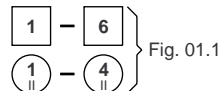
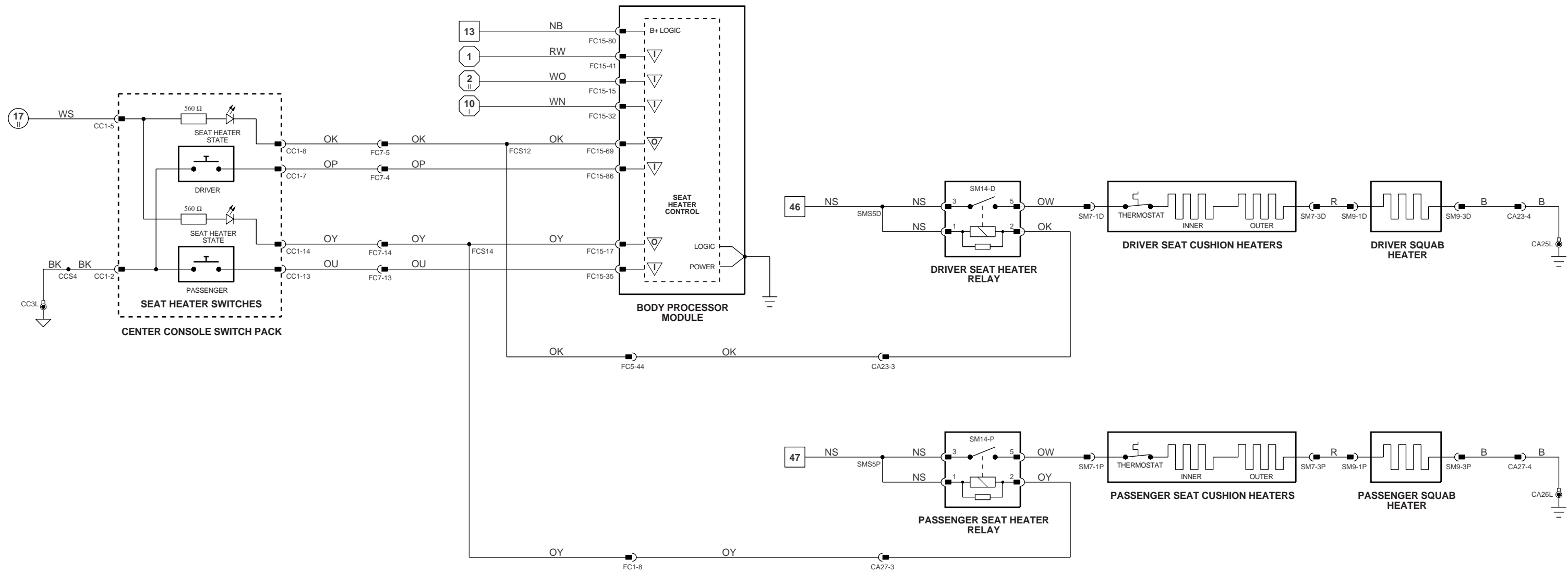
VARIANT: Driver Raise / Lower Seat Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



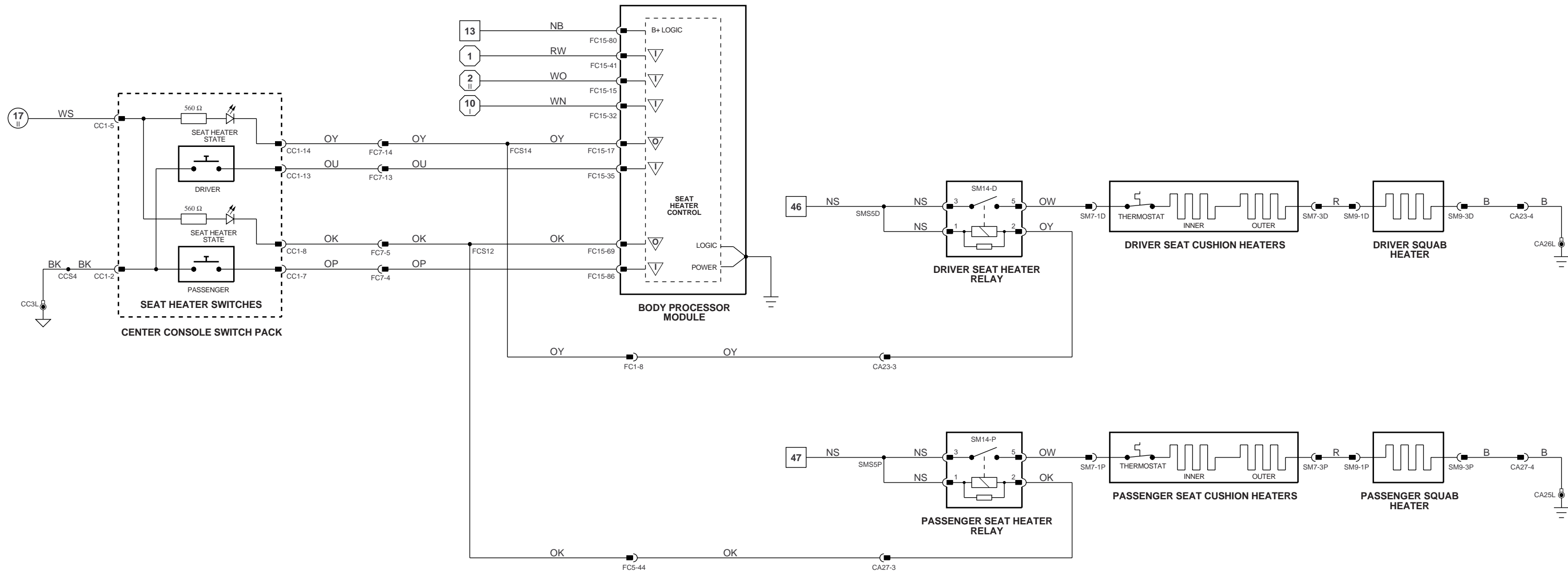
VARIANT: Passenger 5-Way Powered Seat Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

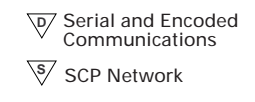
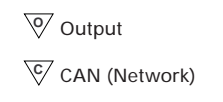
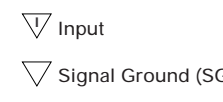
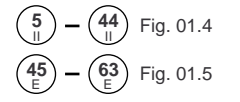
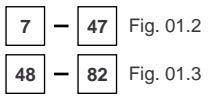
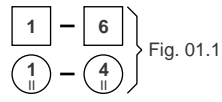
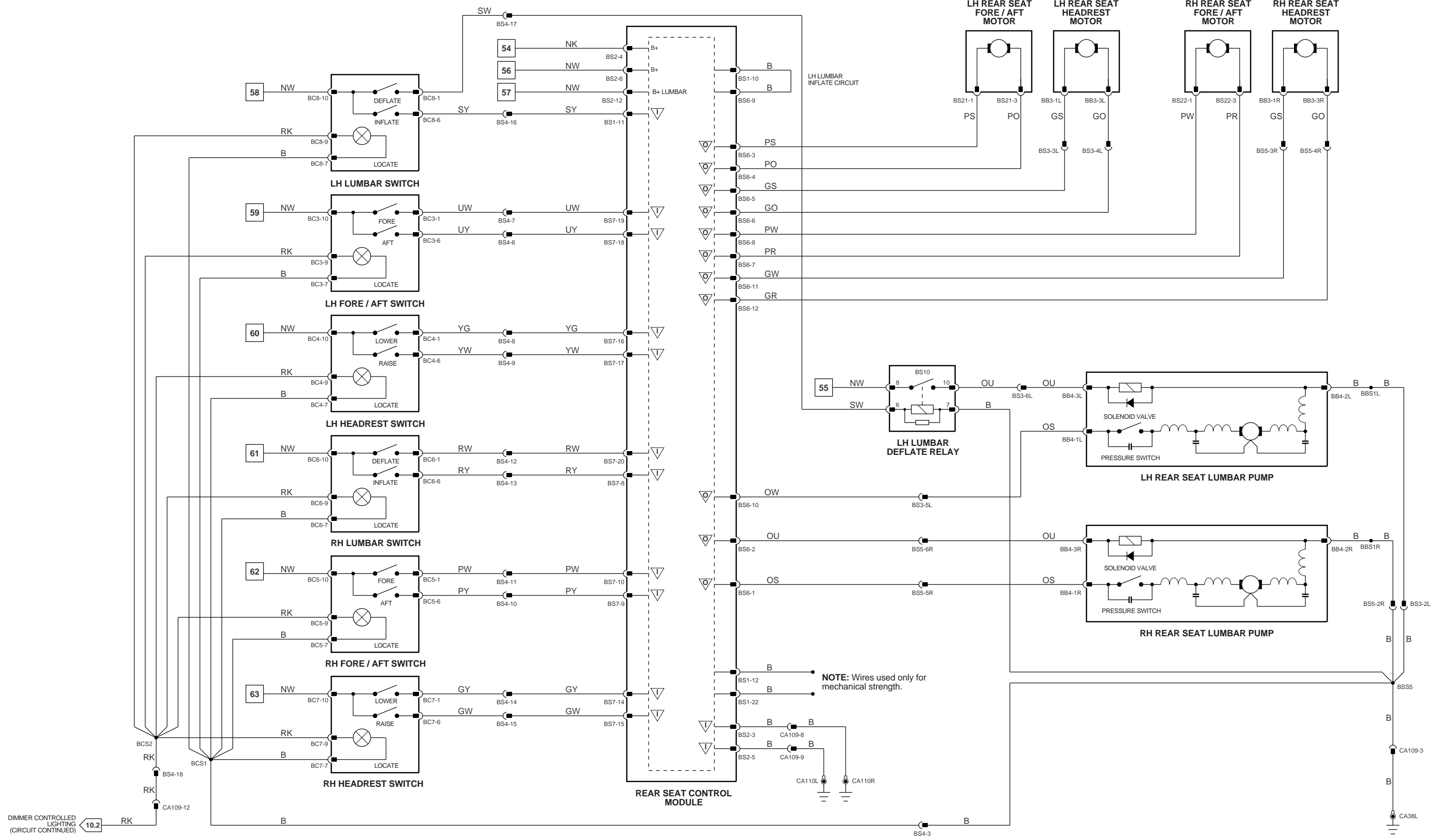


VARIANT: LWB Powered Rear Seat Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

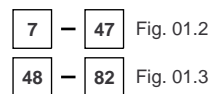
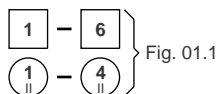
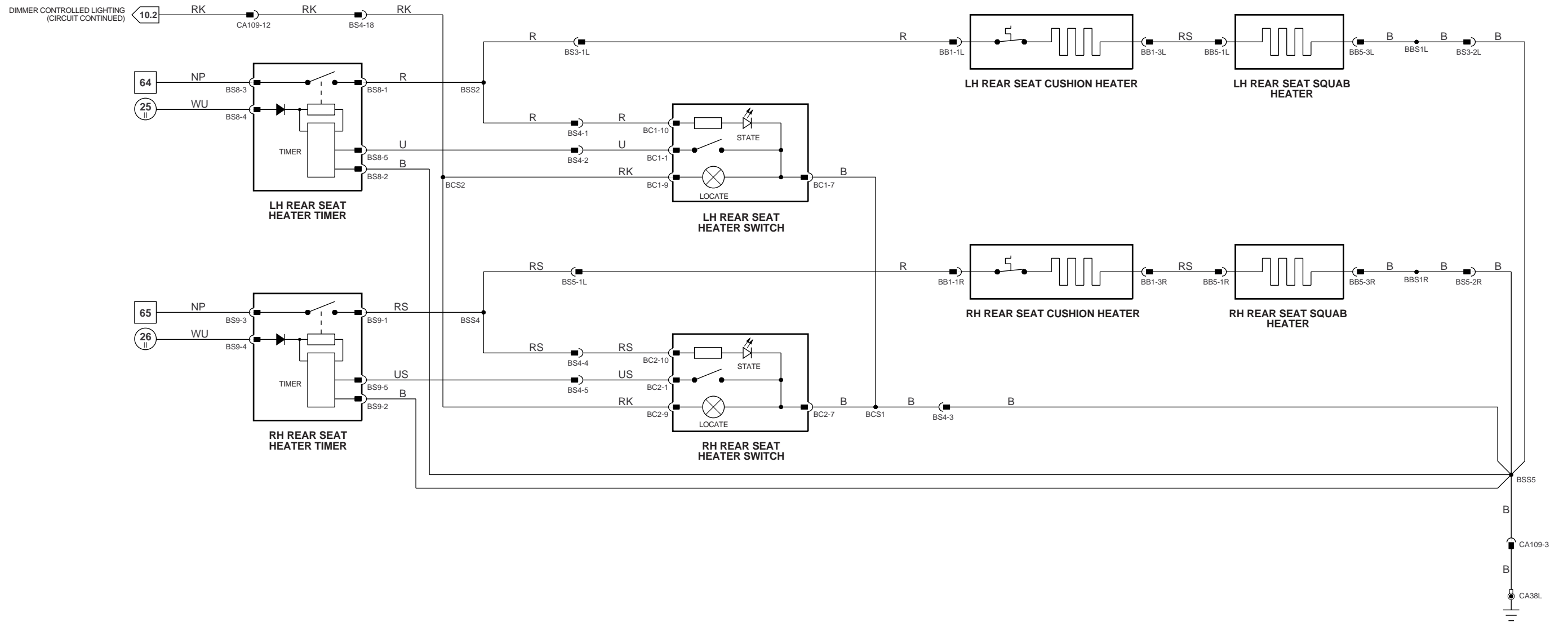


VARIANT: Heaters Only Front Seats LHD Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997





VARIANT: LWB / Powered Rear Seat Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



▽ Input

▽ Signal Ground (SG)

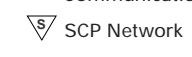
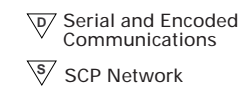
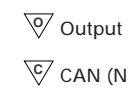
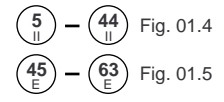
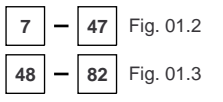
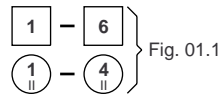
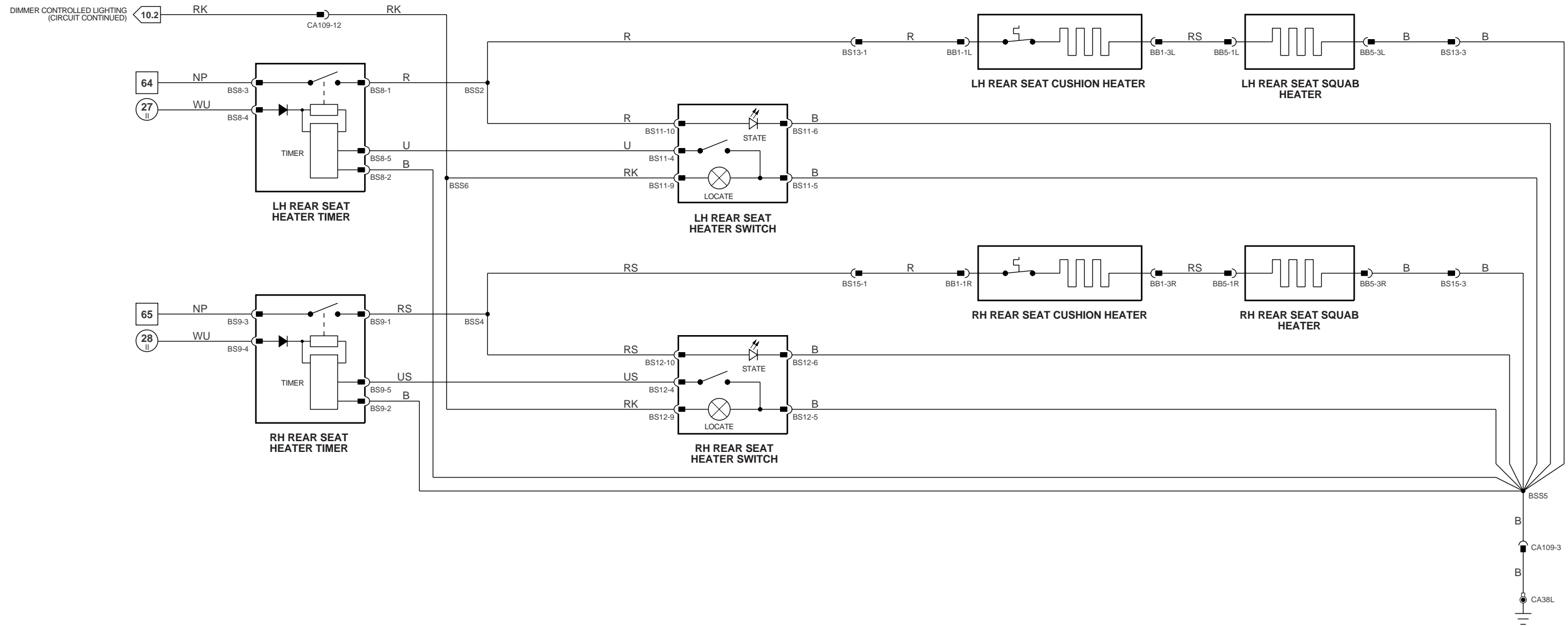
▽ Output

▽ CAN (Network)

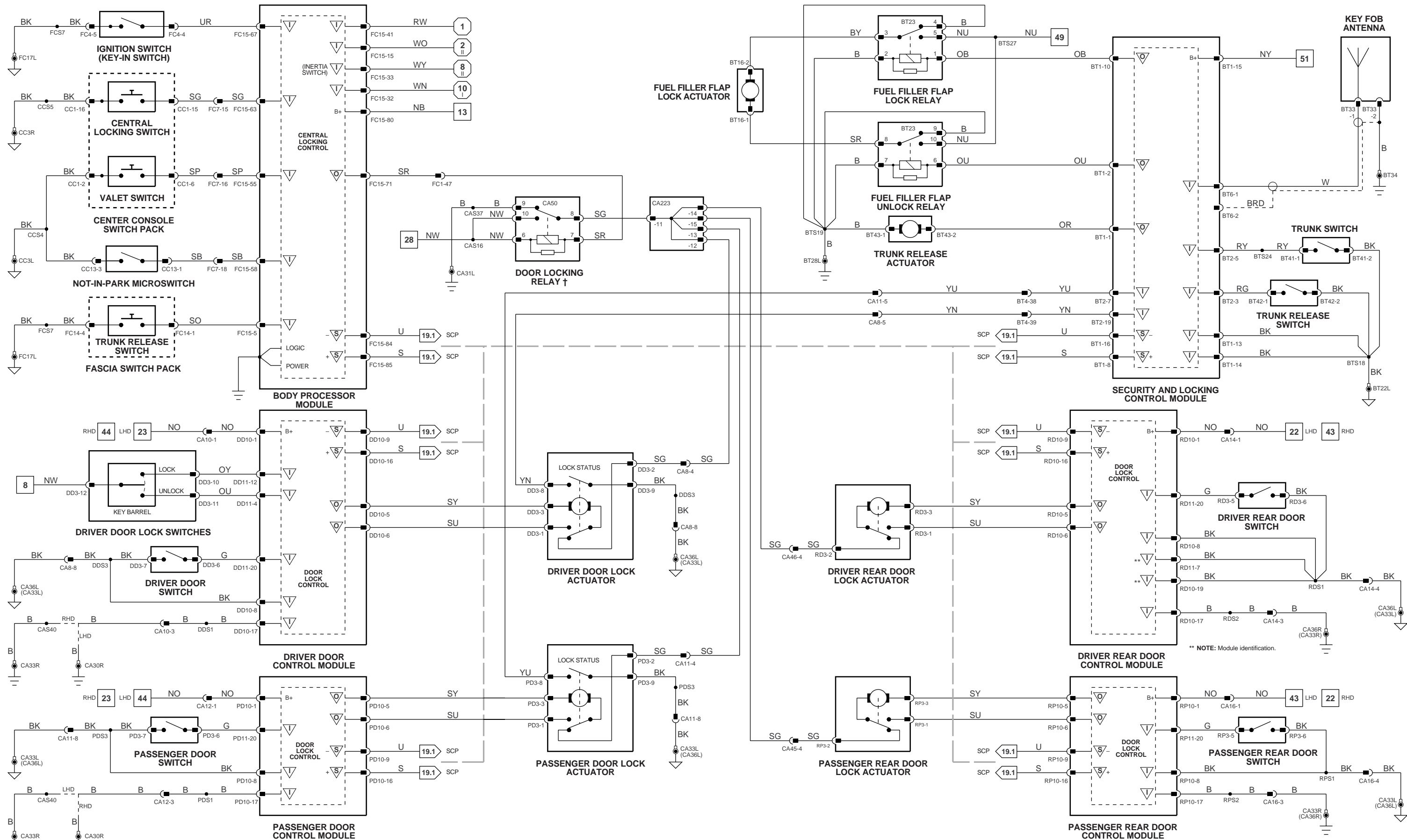
▽ Serial and Encoded Communications

▽ SCP Network

VARIANT: LWB / Powered Rear Seat Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

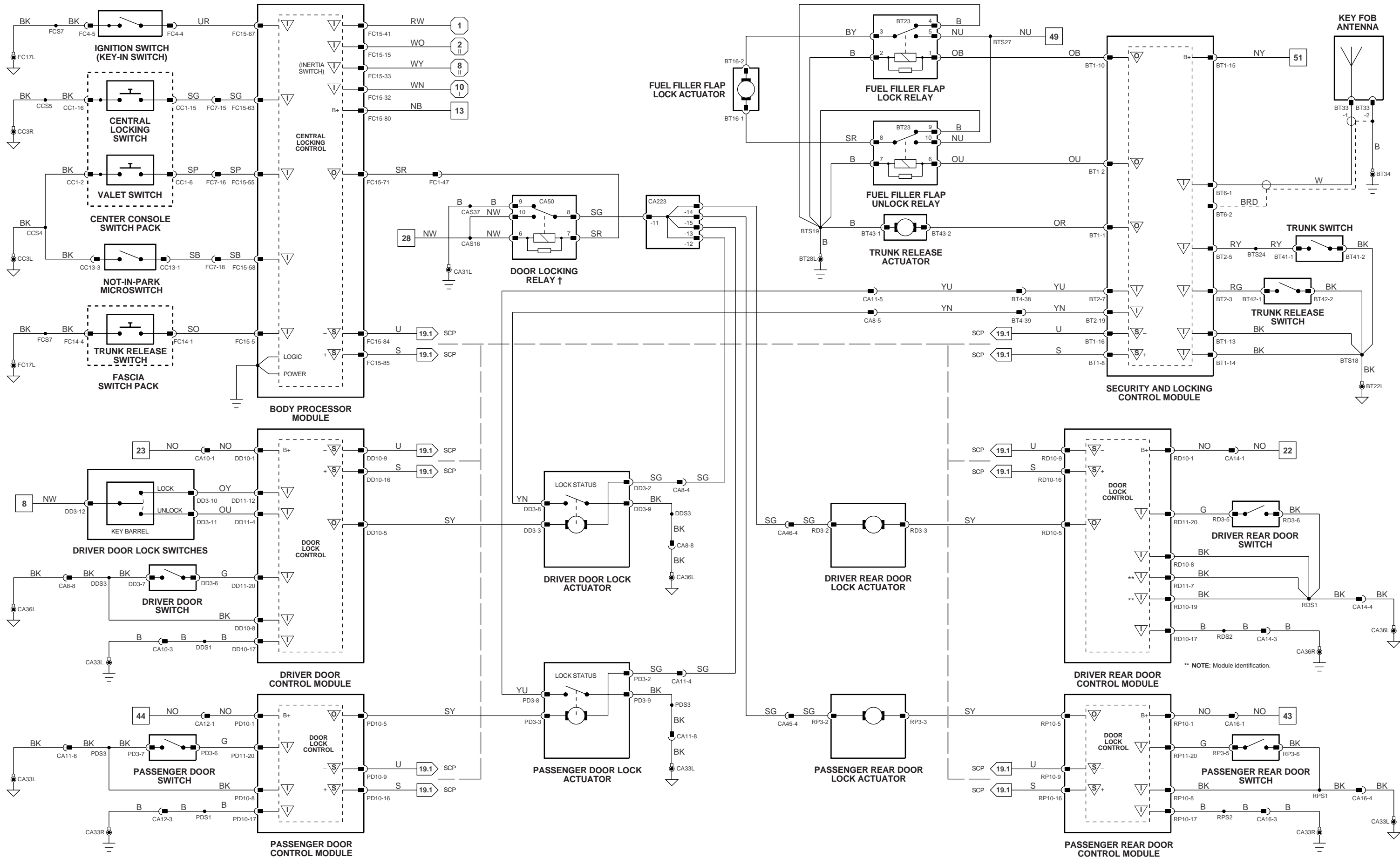


VARIANT: Heaters Only Rear Seat Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



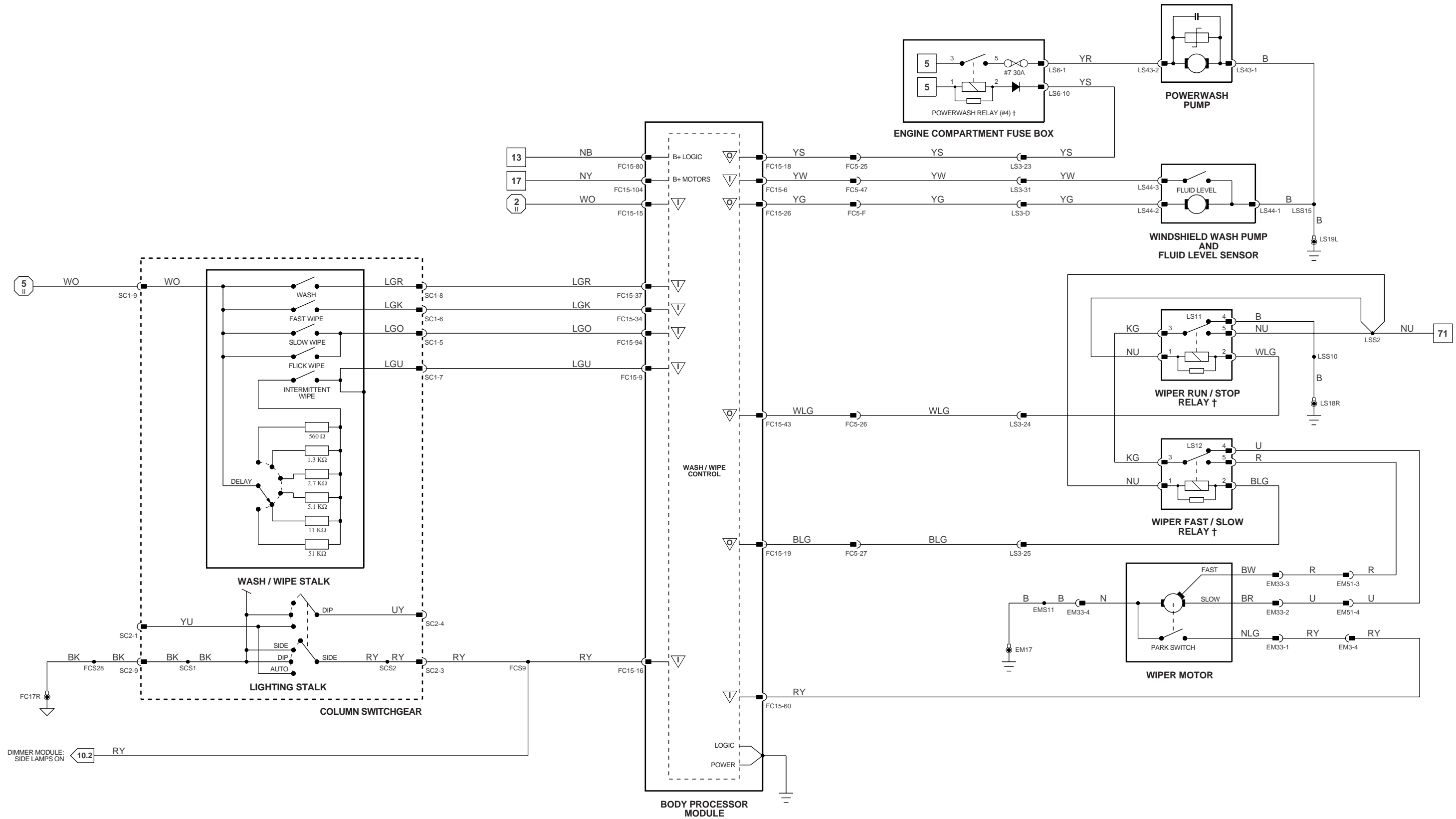
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

- } Fig. 01.1 - }	- Fig. 01.2 - Fig. 01.3	- Fig. 01.4 - Fig. 01.5	- Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	<p>VARIANT: ROW Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997</p>
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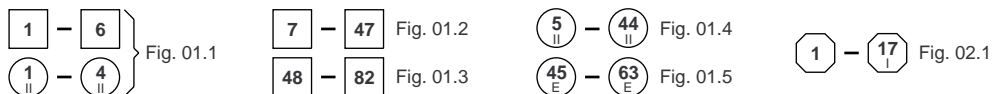


† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.

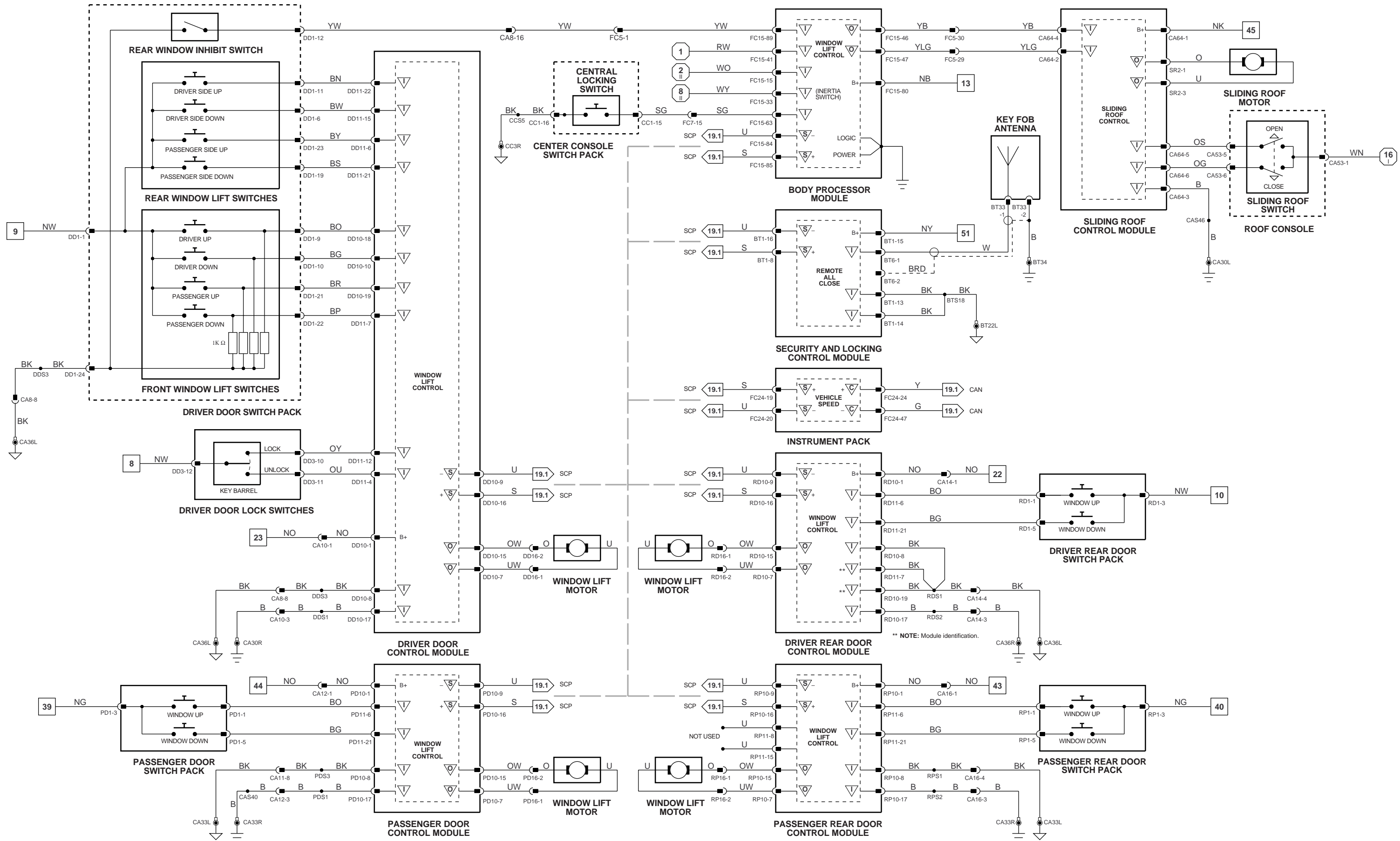
Fig. 01.1 Fig. 01.1	Fig. 01.2 Fig. 01.3	Fig. 01.4 Fig. 01.5	Fig. 02.1	Input Signal Ground (SG)	Output CAN (Network)	Serial and Encoded Communications SCP Network	<p>VARIANT: NAS Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997</p>
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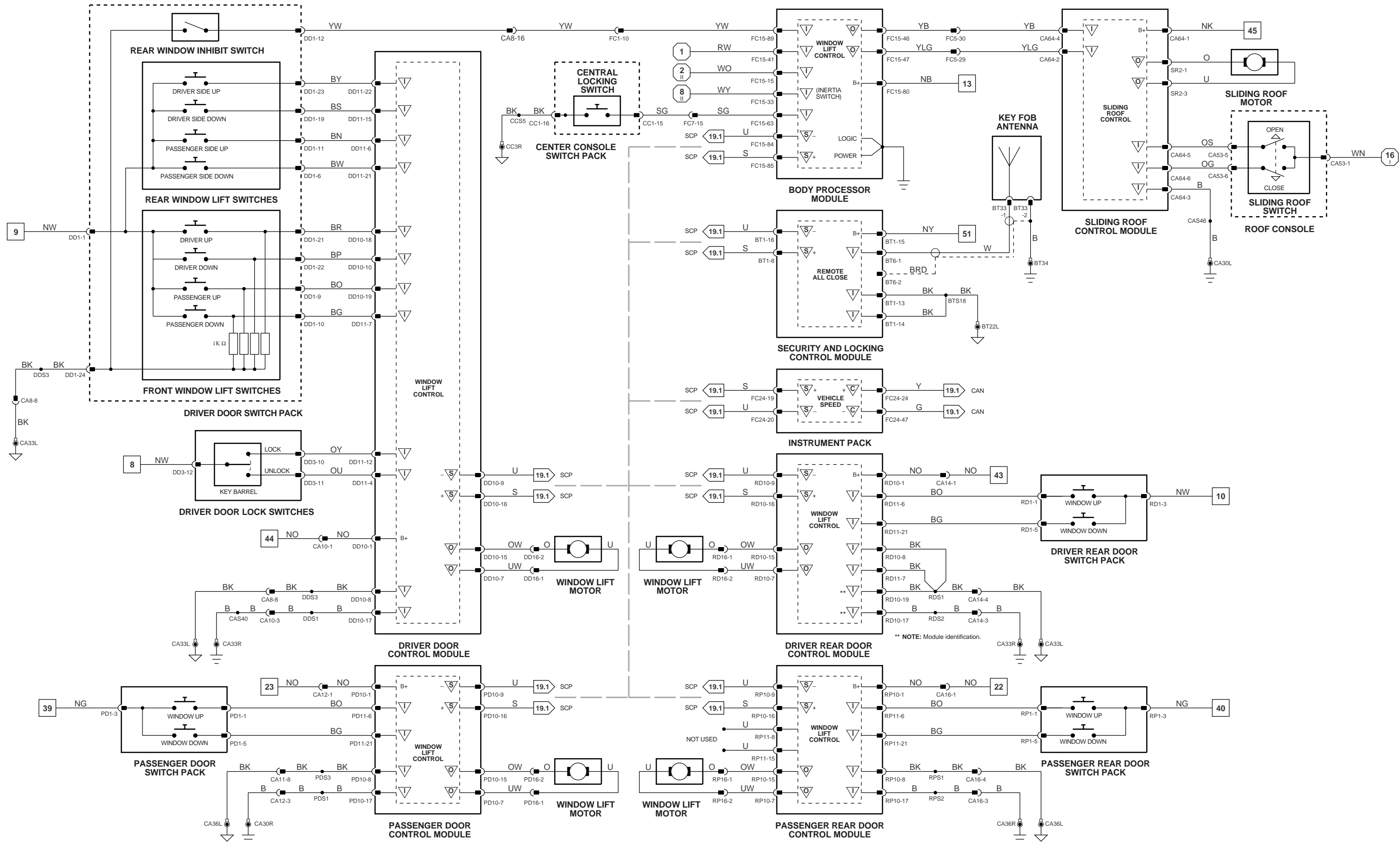
† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.



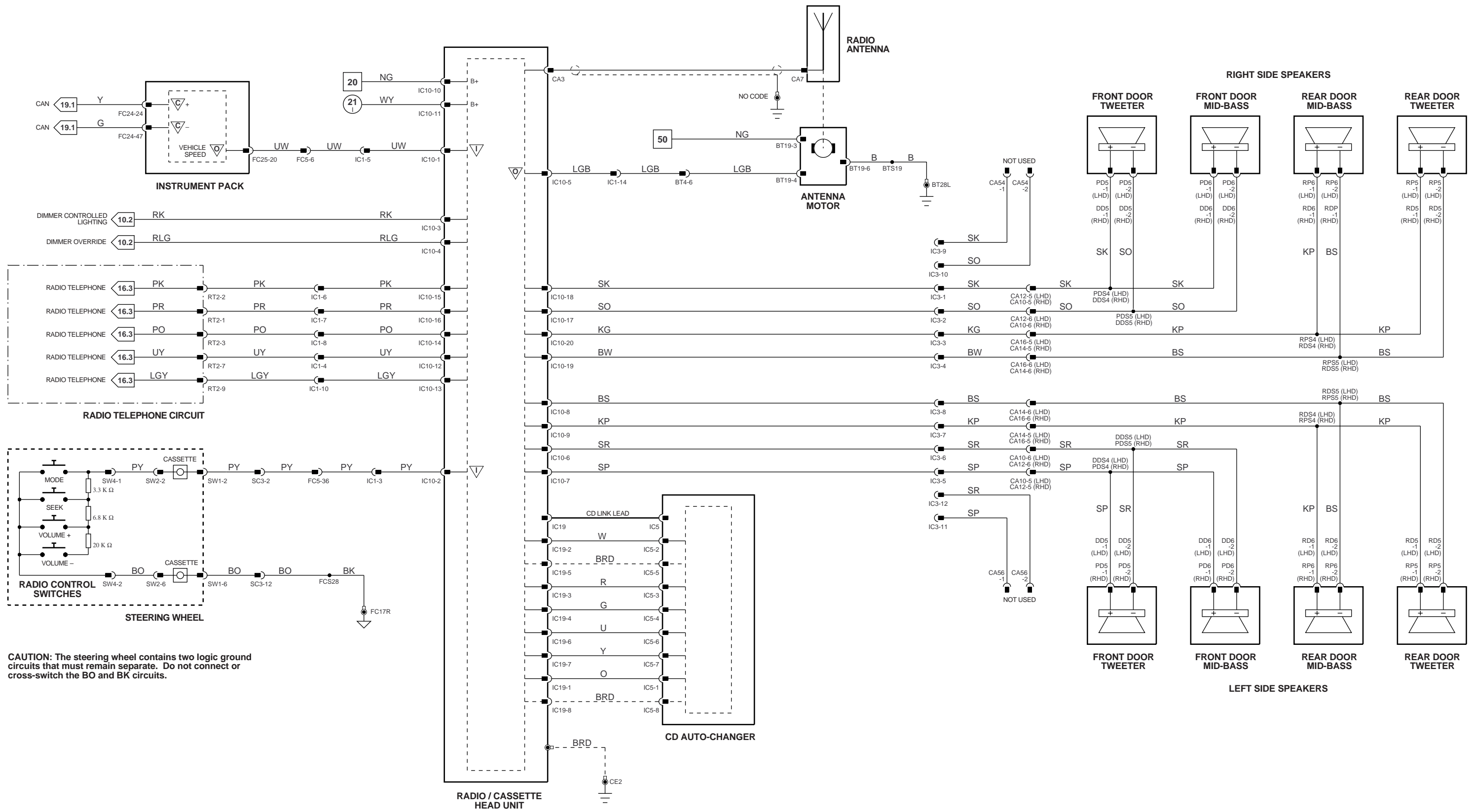
VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



VARIANT: LHD Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

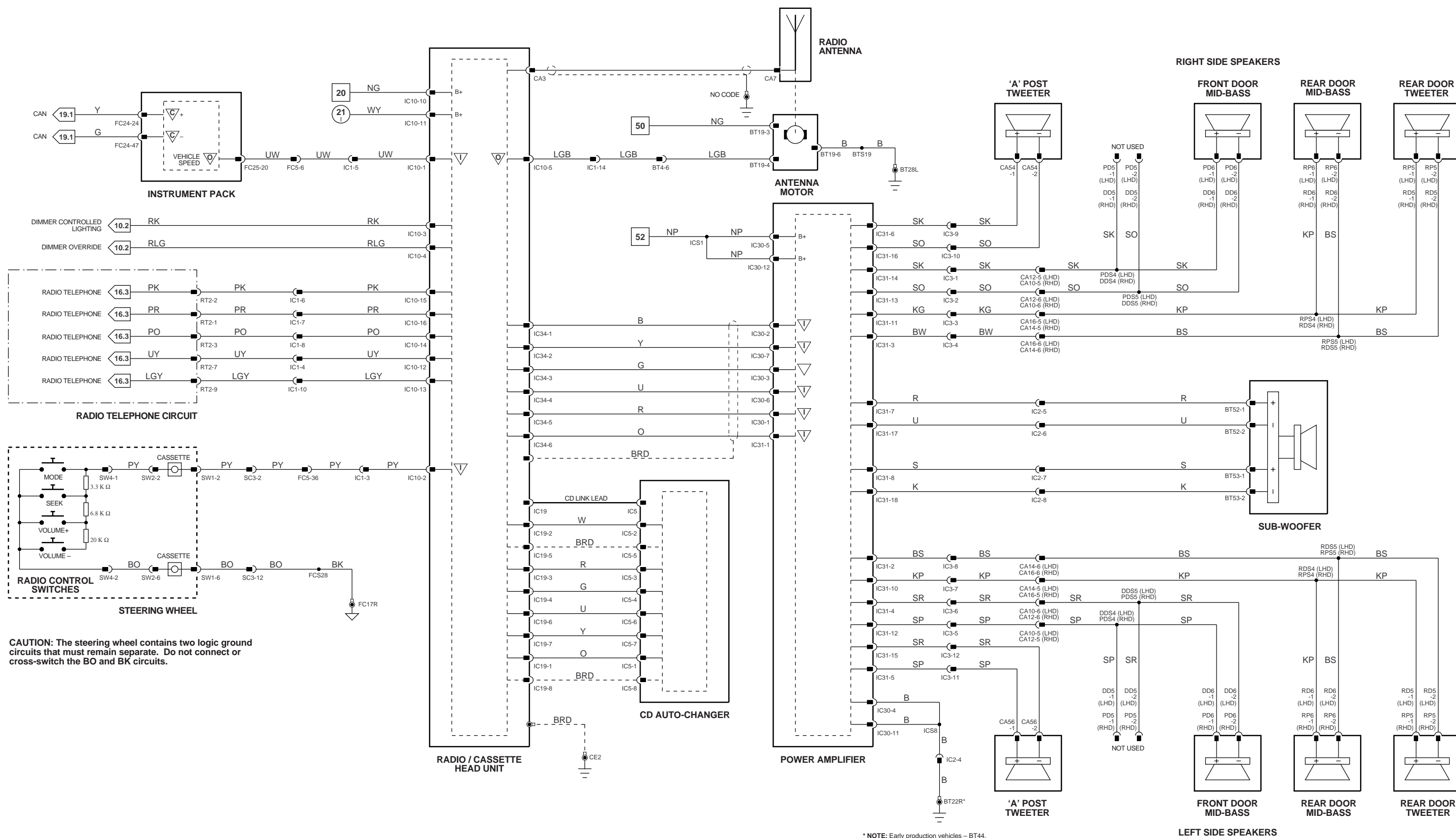


VARIANT: RHD Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997



CAUTION: The steering wheel contains two logic ground circuits that must remain separate. Do not connect or cross-switch the BO and BK circuits.

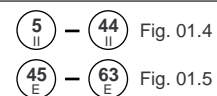
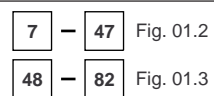
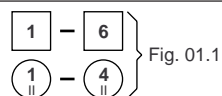
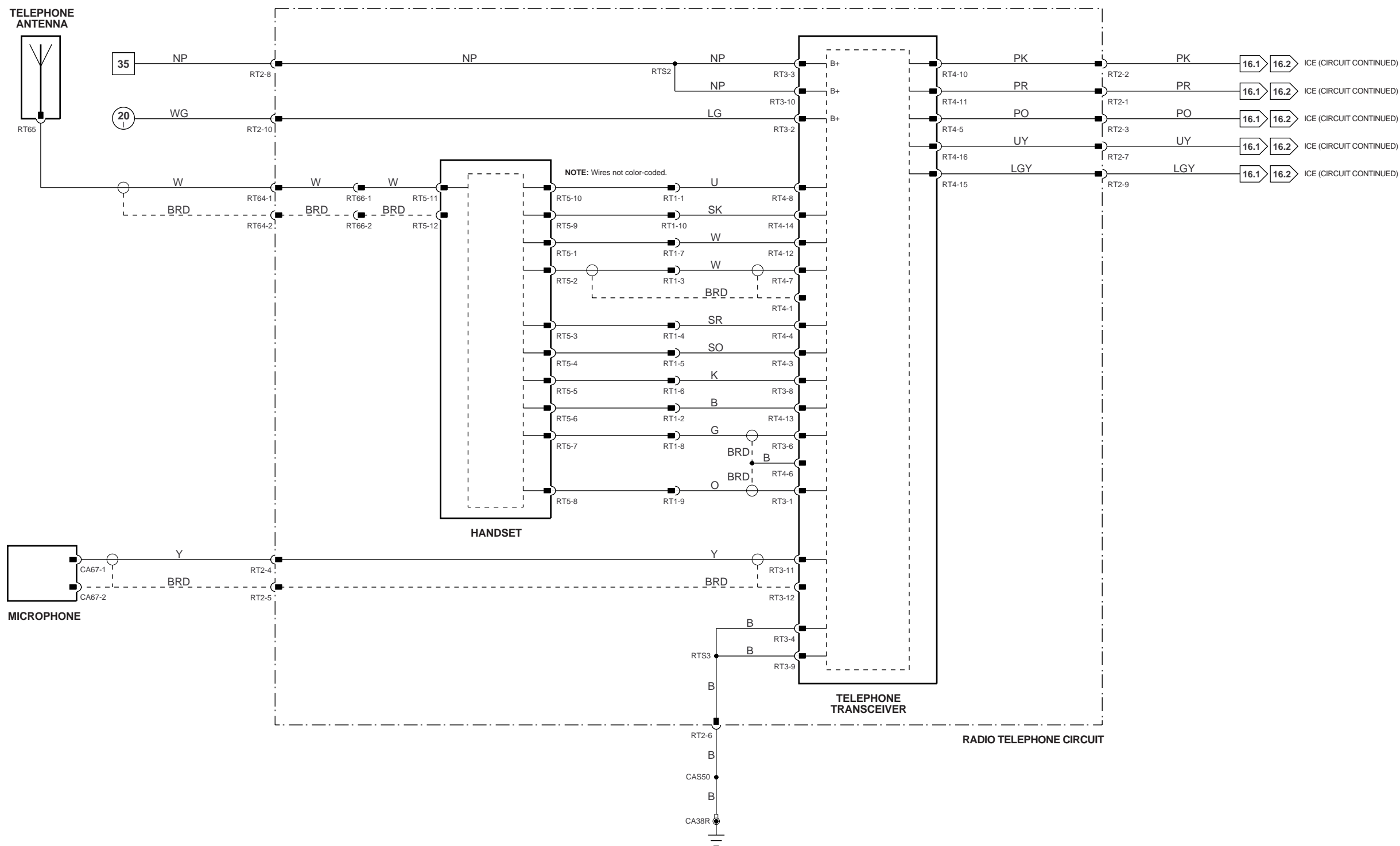
	<p>Fig. 01.1: 1-6, 1-4</p> <p>Fig. 01.2: 7-47</p> <p>Fig. 01.3: 48-82</p> <p>Fig. 01.4: 5-44</p> <p>Fig. 01.5: 45-63</p> <p>Fig. 02.1: 1-17</p>	<p>VARIANT: Standard ICE Vehicles</p> <p>VIN RANGE: All</p> <p>DATE OF ISSUE: SEPTEMBER 1997</p>
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CAUTION: The steering wheel contains two logic ground circuits that must remain separate. Do not connect or cross-switch the BO and BK circuits.

* NOTE: Early production vehicles - BT44.

			<p>VARIANT: Premium ICE Vehicles VIN RANGE: All DATE OF ISSUE: SEPTEMBER 1997</p>
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▽ Input

▽ Signal Ground (SG)

▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

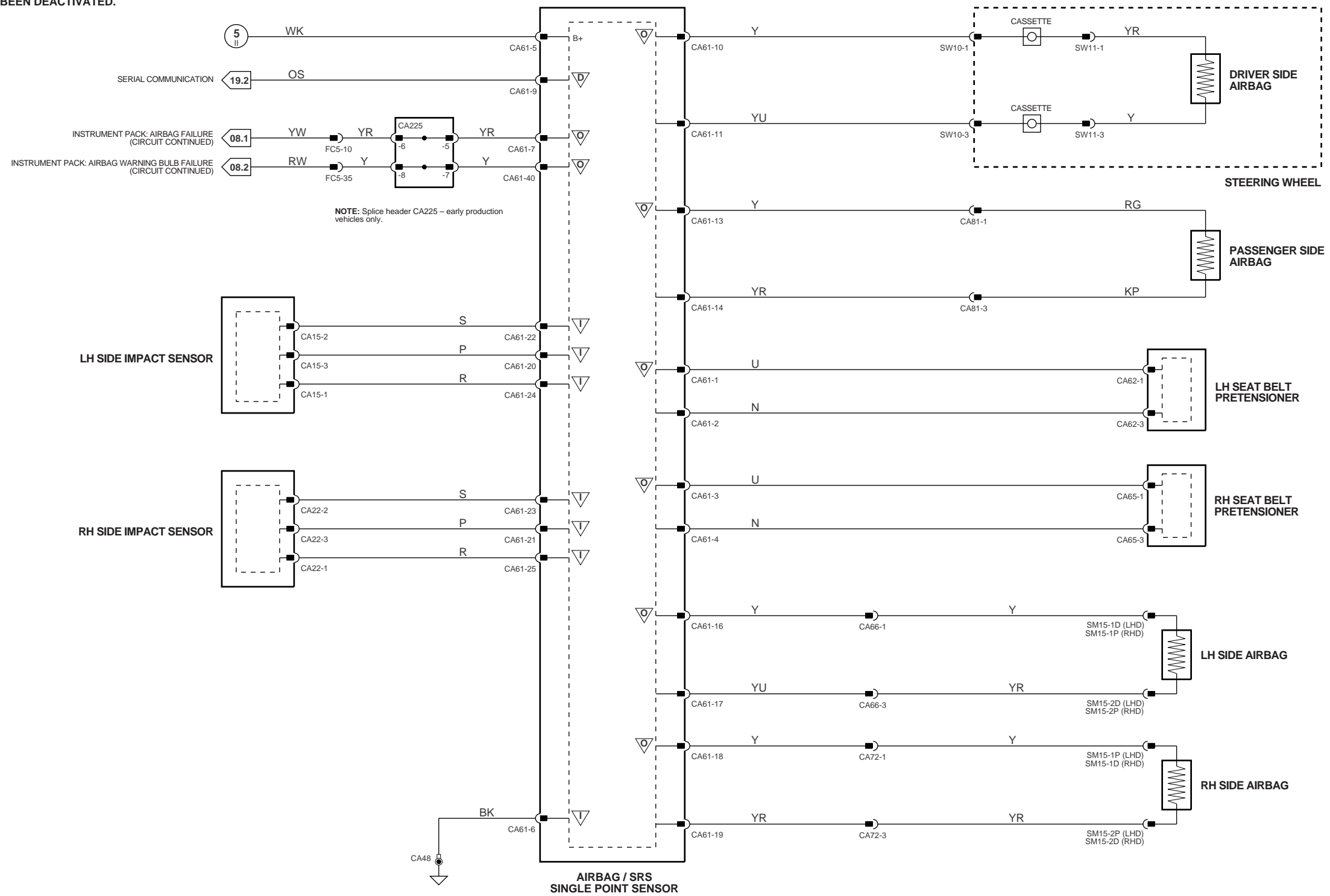
▽ SCP Network

VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

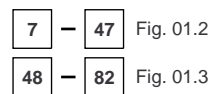
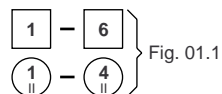


CAUTION: Do not substitute another fuse value for the 10A battery fuse.

WARNING: DO NOT ATTEMPT TO REPLACE THE 10A BATTERY FUSE UNLESS THE AIRBAG SYSTEM HAS FIRST BEEN DEACTIVATED.



WARNING: DO NOT ATTEMPT TO MEASURE THE RESISTANCE THROUGH THE AIRBAG ASSEMBLY. DOING SO MAY TRIGGER AIRBAG DEPLOYMENT AND POSSIBLY RESULT IN PERSONAL INJURY.



▽ Input

▽ Signal Ground (SG)

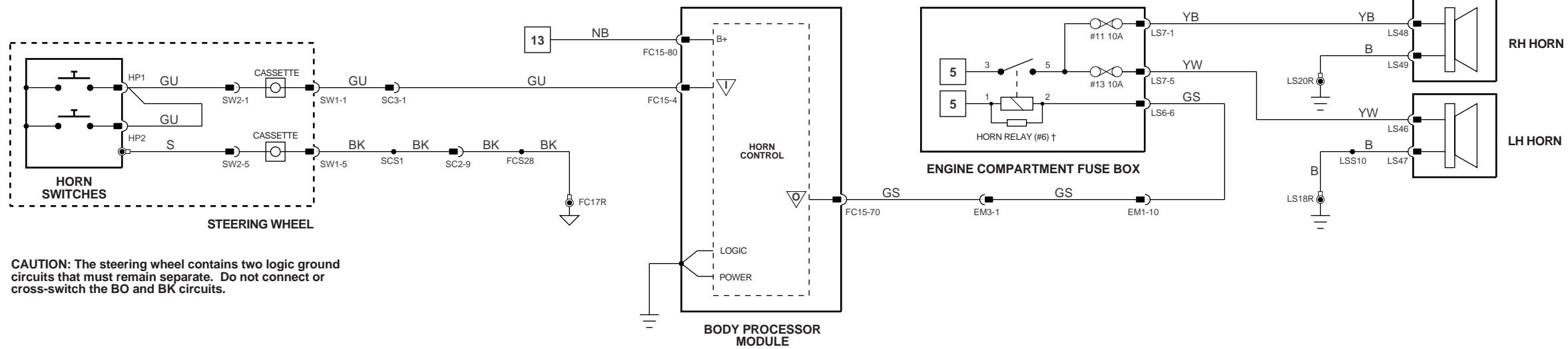
▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

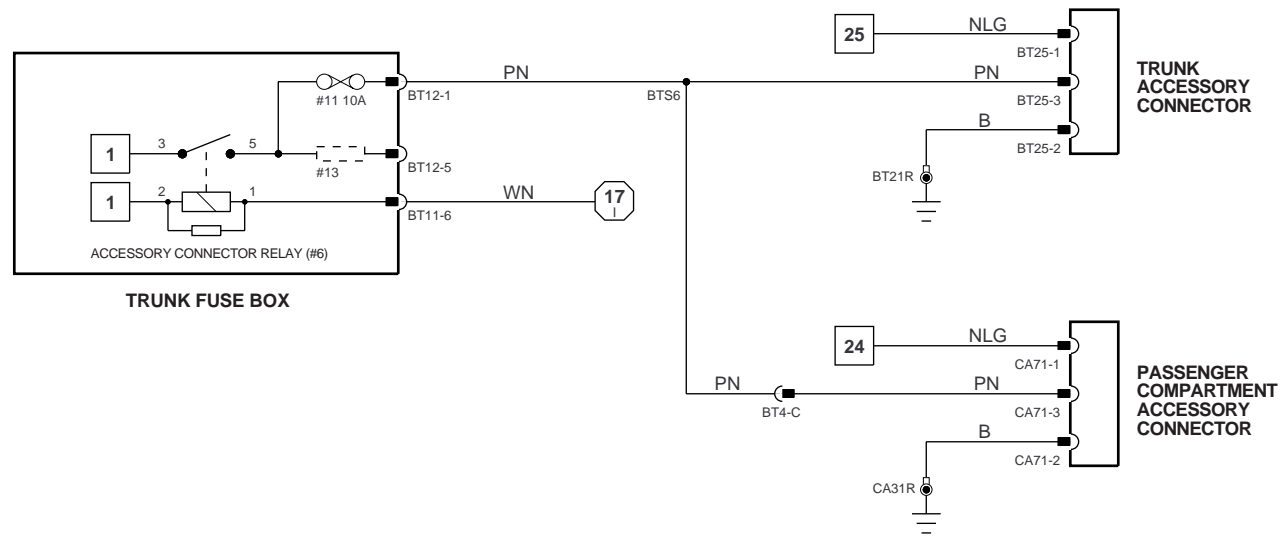
▽ SCP Network

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997

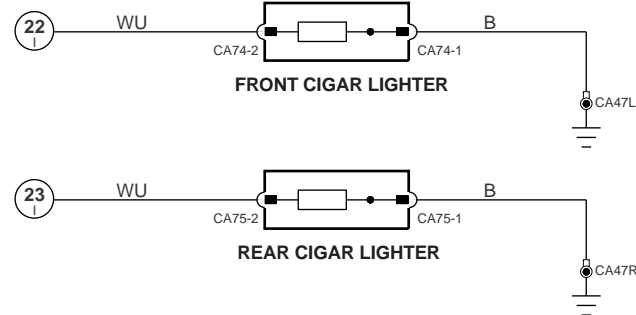


CAUTION: The steering wheel contains two logic ground circuits that must remain separate. Do not connect or cross-switch the BO and BK circuits.

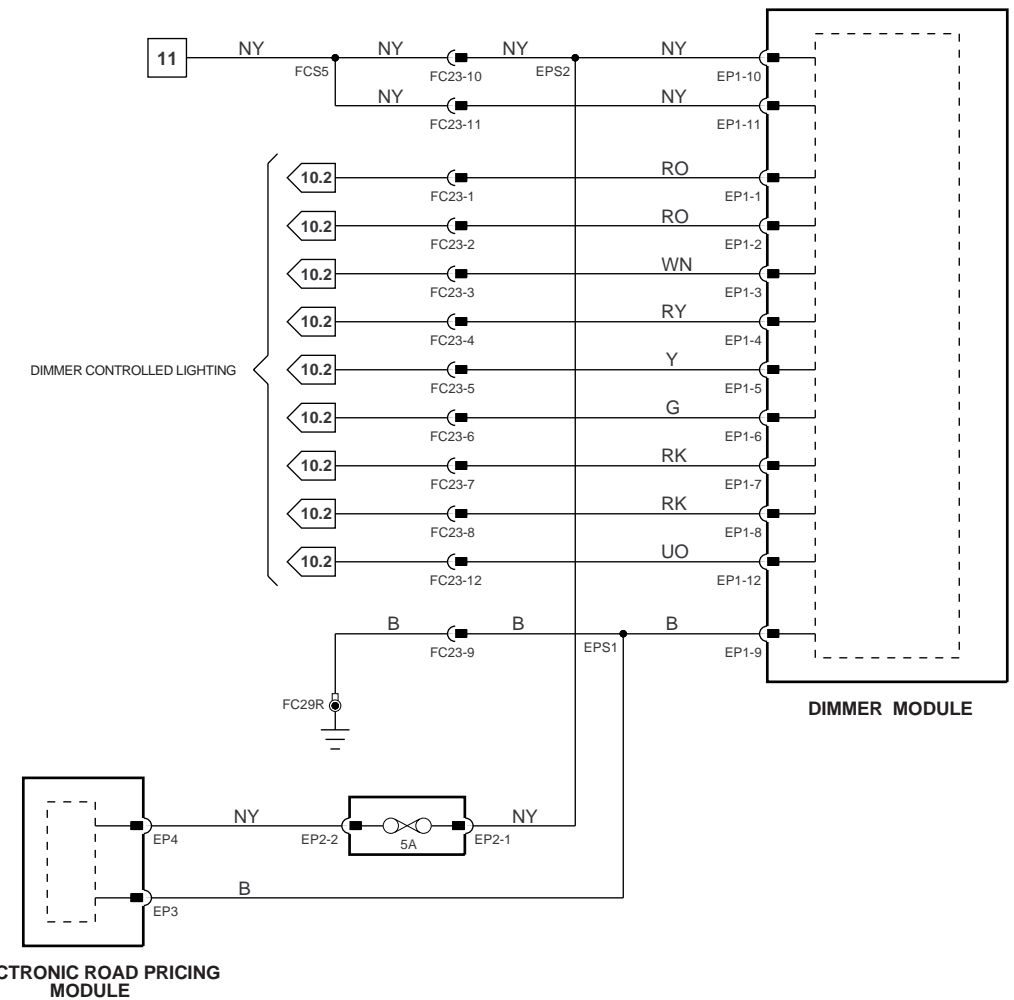
HORNS



ACCESSORY CONNECTORS

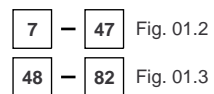
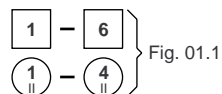


CIGAR LIGHTERS



ELECTRONIC ROAD PRICING

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.



▽ Input

▽ Signal Ground (SG)

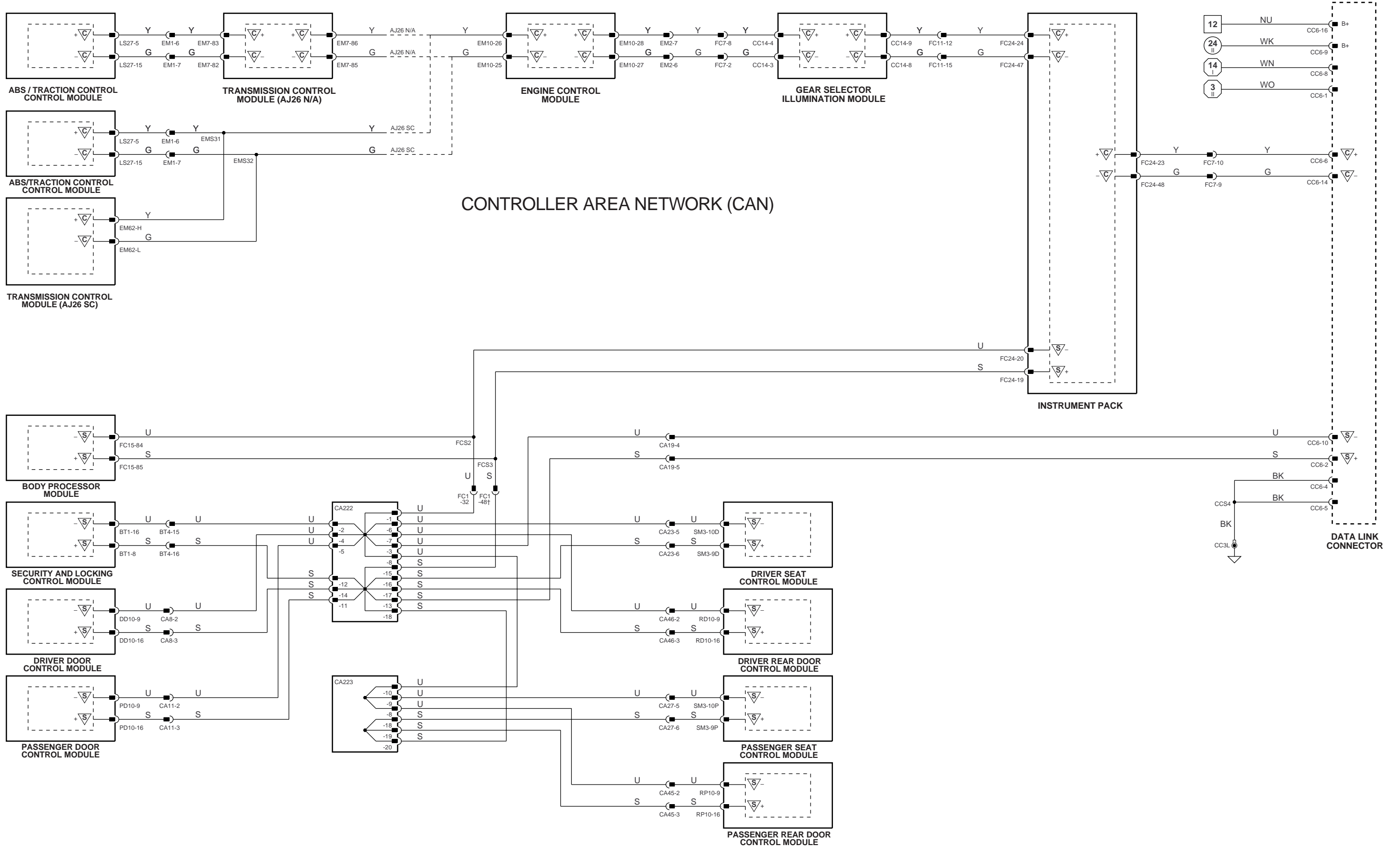
▽ Output

▽ CAN (Network)

▽ Serial and Encoded Communications

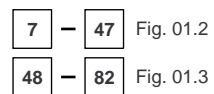
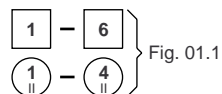
▽ SCP Network

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



STANDARD CORPORATE PROTOCOL NETWORK (SCP)

† NOTE: Early production vehicles have connector pin numbers that differ from the volume production pin numbers shown. Use the wire color code for pin identification on early production vehicles.



▽ Input

▽ Output

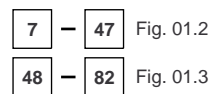
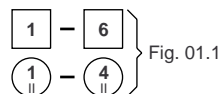
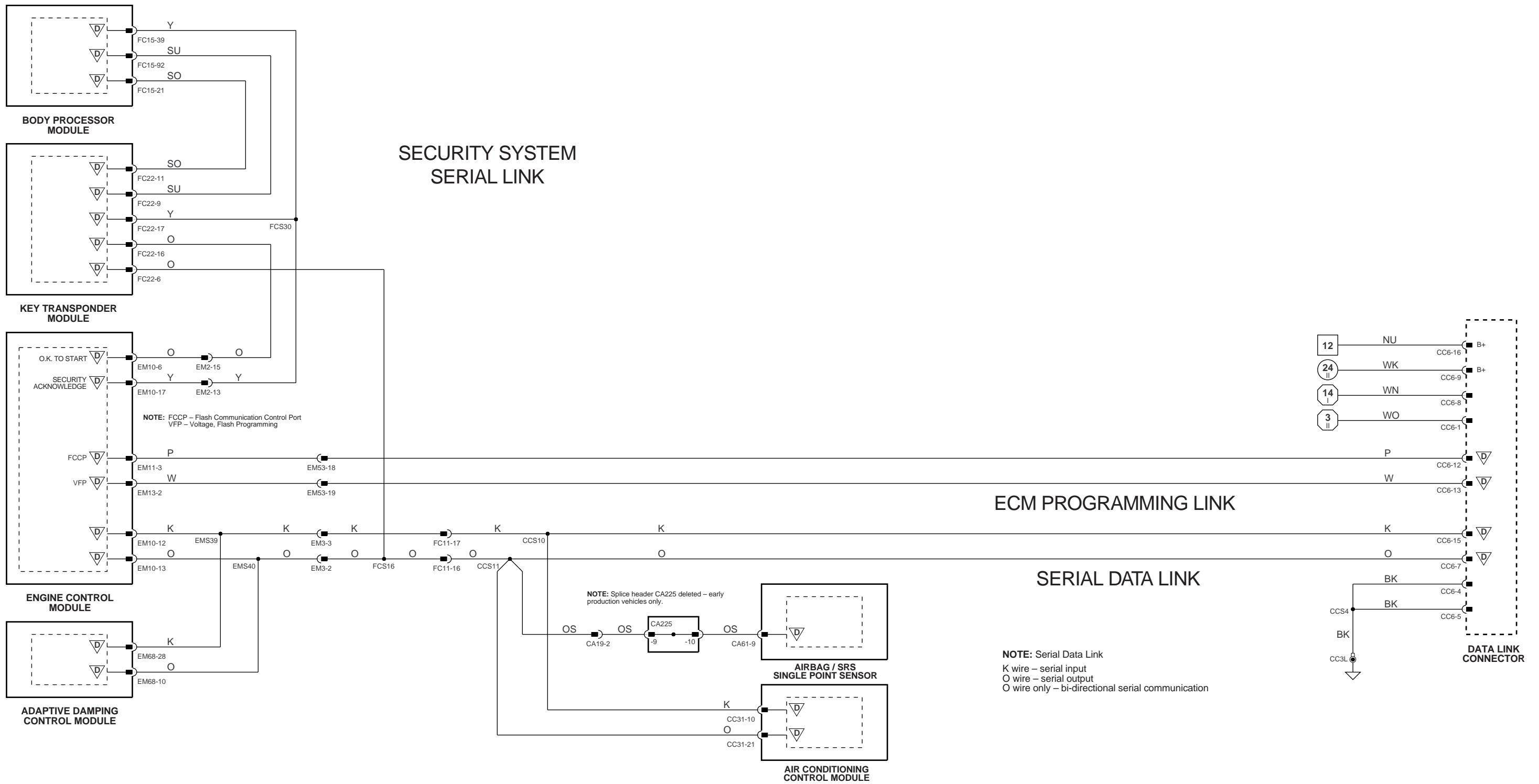
▽ Serial and Encoded Communications

▽ Signal Ground (SG)

▽ CAN (Network)

▽ SCP Network

VARIANT: All Vehicles
VIN RANGE: All
DATE OF ISSUE: SEPTEMBER 1997



VARIANT: All Vehicles
 VIN RANGE: All
 DATE OF ISSUE: SEPTEMBER 1997

CONTROL MODULE PIN OUT INFORMATION

BODY PROCESSOR MODULE

Pin	Description	Active	Inactive
I FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
I FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
O FC15-97	RELAY COIL DRIVE		

Fig. 01.1

COMPONENTS

Component	Connector / Type / Color	Location / Access
BATTERY	BT66 / BATTERY CABLE CLAMP BT67 / BATTERY CABLE CLAMP	TRUNK / BATTERY COVER
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
FUSE BOX - ENGINE COMPARTMENT	LS5 / 10-WAY U.T.A. FUSE BOX / NATURAL LS6 / 10-WAY U.T.A. FUSE BOX / BLACK LS7 / 10-WAY U.T.A. FUSE BOX / GREEN LS8 / 10-WAY U.T.A. FUSE BOX / BLUE ST19 / EYELET	ENGINE COMPARTMENT / LH FRONT
FUSE BOX - ENGINE MANAGEMENT	EM19 / 10-WAY U.T.A. FUSE BOX / NATURAL EM20 / 10-WAY U.T.A. FUSE BOX / BLACK ST20 / EYELET ST21 / EYELET	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
FUSE BOX - LH HEELBOARD	CA1 / 10-WAY U.T.A. FUSE BOX / NATURAL CA2 / 10-WAY U.T.A. FUSE BOX / BLACK ST15 / EYELET	LH HEELBOARD / HEELBOARD COVER
FUSE BOX - RH HEELBOARD	CA41 / 10-WAY U.T.A. FUSE BOX / NATURAL CA42 / 10-WAY U.T.A. FUSE BOX / BLACK ST13 / EYELET ST14 / EYELET	RH HEELBOARD / HEELBOARD COVER
FUSE BOX - TRUNK	BT10 / 10-WAY U.T.A. FUSE BOX / NATURAL BT11 / 10-WAY U.T.A. FUSE BOX / BLACK BT12 / 10-WAY U.T.A. FUSE BOX / GREEN BT13 / 10-WAY U.T.A. FUSE BOX / BLUE BT64 / EYELET	TRUNK ELECTRICAL CARRIER
HIGH POWER PROTECTION MODULE	BT60 / EYELET BT61 / EYELET BT62 / EYELET BT63 / EYELET	TRUNK / ADJACENT TO BATTERY
TRANSIT ISOLATION DEVICE	BT37 / LUCAR - STRAIGHT BT66 / BATTERY CABLE CLAMP	ADJACENT TO BATTERY / BATTERY COVER

RELAYS

Relay	Case Color	Connector / Color	Location / Access
AUXILIARY POSITIVE RELAY (RH HEELBOARD FUSE BOX)	BROWN	BUS	RH HEELBOARD FUSE BOX / HEELBOARD COVER
EMS CONTROL RELAY (ENGINE MANAGEMENT FUSE BOX)	BROWN	BUS	ENGINE MANAGEMENT FUSE BOX / ENGINE COMPARTMENT
IGNITION POSITIVE RELAY (ENGINE COMPARTMENT FUSE BOX)	BROWN	BUS	ENGINE COMPARTMENT FUSE BOX / ENGINE COMPARTMENT
IGNITION POSITIVE RELAY (LH HEELBOARD FUSE BOX)	BROWN	BUS	LH HEELBOARD FUSE BOX / HEELBOARD COVER

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF / TRUNK / REAR BULKHEAD / RH SIDE
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE AIR VENT / GLOVE BOX ASSEMBLY
ST5	EYELET	ENGINE COMPARTMENT / RH FALSE BULKHEAD
ST6	EYELET	ENGINE COMPARTMENT / RH FALSE BULKHEAD

GROUNDS

Ground	Location / Type
BT65	EYELET (SINGLE) - BATTERY GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

I Input	D Serial and encoded communications	B+ Battery voltage	KHz Frequency x 1000
O Output	C CAN (Network)	V Voltage (DC)	MS Milliseconds
SG Signal Ground	S SCP Network	Hz Frequency	MV Millivolts

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Fig. 01.2**COMPONENTS****Component**

FUSE BOX - LH HEELBOARD

FUSE BOX - RH HEELBOARD

SPlice HEADER - CA222

SPlice HEADER - CA223

SPlice HEADER - CA224

Connector / Type / ColorCA1 / 10-WAY U.T.A. FUSE BOX / NATURAL
CA2 / 10-WAY U.T.A. FUSE BOX / BLACK
ST15 / EYELETCA41 / 10-WAY U.T.A. FUSE BOX / NATURAL
CA42 / 10-WAY U.T.A. FUSE BOX / BLACK
ST13 / EYELET
ST14 / EYELET

CA222 / 20-WAY SUMITOMO SPlice HEADER / GREY

CA223 / 20-WAY SUMITOMO SPlice HEADER / BLACK

CA224 / 20-WAY SUMITOMO SPlice HEADER / GREEN

Location / Access

LH HEELBOARD / HEELBOARD COVER

RH HEELBOARD / HEELBOARD COVER

RH HEELBOARD / HEELBOARD COVER

RH HEELBOARD / HEELBOARD COVER

LH HEELBOARD / HEELBOARD COVER

HARNESS-TO-HARNESS CONNECTORS**Connector****Type / Color**

BT4 54-WAY THROUGH PANEL / BLACK

CA10 8-WAY MULTILOCK 070 / YELLOW

CA12 8-WAY MULTILOCK 070 / YELLOW

CA14 6-WAY MULTILOCK 070 / WHITE

CA16 6-WAY MULTILOCK 070 / WHITE

CA19 20-WAY MULTILOCK 070 / YELLOW

CA20 20-WAY MULTILOCK 070 / YELLOW

CA23 10-WAY MULTILOCK 070 / WHITE

CA27 10-WAY MULTILOCK 070 / WHITE

FC1 54-WAY THROUGH PANEL CONNECTOR / BLACK

FC5 54-WAY THROUGH PANEL CONNECTOR / BLACK

IC1 14-WAY MULTILOCK 070 / WHITE

Location / Access

BELOW PARCEL SHELF / TRUNK / REAR BULKHEAD / RH SIDE

DRIVER 'A' POST / DOOR HARNESS GAITER

PASSENGER 'A' POST / DOOR HARNESS GAITER

DRIVER 'B/C' POST / DOOR HARNESS GAITER

PASSENGER 'B/C' POST / DOOR HARNESS GAITER

LH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER

RH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER

BELOW DRIVER SEAT

BELOW PASSENGER SEAT

BELOW PASSENGER SIDE AIR VENT / GLOVE BOX ASSEMBLY

BELOW DRIVER SIDE AIR VENT / COIN TRAY

LH HEELBOARD

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Fig. 01.3**COMPONENTS**

Component	Connector / Type / Color	Location / Access
FUSE BOX - ENGINE COMPARTMENT	LS5 / 10-WAY U.T.A. FUSE BOX / NATURAL LS6 / 10-WAY U.T.A. FUSE BOX / BLACK LS7 / 10-WAY U.T.A. FUSE BOX / GREEN LS8 / 10-WAY U.T.A. FUSE BOX / BLUE ST19 / EYELET	ENGINE COMPARTMENT / LH FRONT
FUSE BOX - ENGINE MANAGEMENT	EM19 / 10-WAY U.T.A. FUSE BOX / NATURAL EM20 / 10-WAY U.T.A. FUSE BOX / BLACK ST20 / EYELET ST21 / EYELET	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
FUSE BOX - TRUNK	BT10 / 10-WAY U.T.A. FUSE BOX / NATURAL BT11 / 10-WAY U.T.A. FUSE BOX / BLACK BT12 / 10-WAY U.T.A. FUSE BOX / GREEN BT13 / 10-WAY U.T.A. FUSE BOX / BLUE BT64 / EYELET	TRUNK ELECTRICAL CARRIER

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
BS4	20-WAY MULTILOCK 070 / WHITE	BELOW REAR CENTER CONSOLE SEAT SWITCHES
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF / TRUNK / REAR BULKHEAD / RH SIDE
CA109	12-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSHION
EM42	4-WAY YAZAKI / GREY	BULKHEAD / REAR OF ENGINE
IC2	8-WAY MULTILOCK 070 / WHITE	REARWARD OF FUEL TANK / BATTERY COVER
LS32	4-WAY YAZAKI / GREY	FORWARD OF LH FRONT SUSPENSION ARM

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Fig. 01.4**COMPONENTS**

Component	Connector / Type / Color	Location / Access
FUSE BOX - ENGINE COMPARTMENT	LS5 / 10-WAY U.T.A. FUSE BOX / NATURAL LS6 / 10-WAY U.T.A. FUSE BOX / BLACK LS7 / 10-WAY U.T.A. FUSE BOX / GREEN LS8 / 10-WAY U.T.A. FUSE BOX / BLUE ST19 / EYELET	ENGINE COMPARTMENT / LH FRONT
FUSE BOX - LH HEELBOARD	CA1 / 10-WAY U.T.A. FUSE BOX / NATURAL CA2 / 10-WAY U.T.A. FUSE BOX / BLACK ST15 / EYELET	LH HEELBOARD / HEELBOARD COVER
FUSE BOX - RH HEELBOARD	CA41 / 10-WAY U.T.A. FUSE BOX / NATURAL CA42 / 10-WAY U.T.A. FUSE BOX / BLACK ST13 / EYELET ST14 / EYELET	RH HEELBOARD / HEELBOARD COVER
FUSE BOX - TRUNK	BT10 / 10-WAY U.T.A. FUSE BOX / NATURAL BT11 / 10-WAY U.T.A. FUSE BOX / BLACK BT12 / 10-WAY U.T.A. FUSE BOX / GREEN BT13 / 10-WAY U.T.A. FUSE BOX / BLUE BT64 / EYELET	TRUNK ELECTRICAL CARRIER
SPLICE HEADER - CA225	CA225 / 20-WAY SUMITOMO SPLICE HEADER / NATURAL	LH HEELBOARD / HEELBOARD COVER

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF / TRUNK / REAR BULKHEAD / RH SIDE
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
CA20	20-WAY MULTILOCK 070 / YELLOW	RH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
CA109	12-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSHION
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTMENT / ADJACENT TO ABS PUMP
EM42	4-WAY YAZAKI / GREY	BULKHEAD / REAR OF ENGINE
EM51	12-WAY AUGAT 1.6 / GREY	ENGINE COMPARTMENT / ADJACENT TO ABS PUMP
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE AIR VENT / GLOVE BOX ASSEMBLY
FC5	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW DRIVER SIDE AIR VENT / COIN TRAY
IC1	14-WAY MULTILOCK 070 / WHITE	LH HEELBOARD
LS9	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A' POST FINISHER

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Fig. 01.5

COMPONENTS

Component	Connector / Type / Color	Location / Access
FUSE BOX – ENGINE MANAGEMENT	EM19 / 10-WAY U.T.A. FUSE BOX / NATURAL EM20 / 10-WAY U.T.A. FUSE BOX / BLACK ST20 / EYELET ST21 / EYELET	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE

HARNESSTO-HARNESSTCONNECTORS

Connector	Type / Color	Location / Access
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
EM51	12-WAY AUGAT 1.6 / GREY	ENGINE COMPARTMENT / ADJACENT TO ABS PUMP
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE AIR VENT / GLOVE BOX ASSEMBLY
P11	57-WAY SUMITOMO TS090 / BLACK	ENGINE COMPARTMENT / BULKHEAD / REAR OF ENGINE

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

Fig. 02.1**COMPONENTS**

Component	Connector / Type / Color	Location / Access
IGNITION SWITCH	FC4 / 8-WAY MULTILOCK 070 / WHITE	STEERING COLUMN
INERTIA SWITCH	CA6 / 3-WAY ECONOSEAL III LC / BLACK	RH 'A' POST / LOWER 'A' POST FINISHER

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
BT4	54-WAY THROUGH PANEL / BLACK	BELOW PARCEL SHELF / TRUNK / REAR BULKHEAD / RH SIDE
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
CA20	20-WAY MULTILOCK 070 / YELLOW	RH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
FC1	54-WAY THROUGH PANEL CONNECTOR / BLACK	BELOW PASSENGER SIDE AIR VENT / GLOVE BOX ASSEMBLY
FC11	18-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE / COIN TRAY
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A' POST FINISHER

GROUNDS

Ground	Location / Type
FC17L	EYELET (PAIR) - EMS BULKHEAD GROUND STUD

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

CONTROL MODULE PIN OUT INFORMATION

BODY PROCESSOR MODULE

Pin	Description	Active	Inactive
I FC15-7	NEUTRAL SWITCH STATUS	GROUND (N)	B+ (P, R, D, 4, 3, 2)
D FC15-21	SERIAL COMMUNICATION - KEY TRANSPONDER	ENCODED COMMUNICATION	
D FC15-39	SECURITY ACKNOWLEDGE	ENCODED COMMUNICATIONS	
I FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
O FC15-73	STARTER RELAY ACTIVATE	GROUND (CRANKING)	B-
I FC15-80	BATTERY SUPPLY VOLTAGE	B+	B-
D FC15-92	ENCODED COMMUNICATIONS		

ENGINE CONTROL MODULE

Pin	Description	Active	Inactive
D EM10-6	OK TO START - ENCODED COMMUNICATIONS		
I EM10-15	PARK / NEUTRAL CONFIRMATION	B+ (P, N)	GROUND (R,D,4,3,2)
D EM10-17	SECURITY ACKNOWLEDGE	ENCODED COMMUNICATIONS	
I EM11-6	ENGINE CRANK	GROUND (CRANKING)	B+

KEY TRANSPONDER MODULE

Pin	Description	Active	Inactive
D FC22-9	SERIAL COMMUNICATION (ENCODED COMMUNICATION)		
D FC22-11	SERIAL COMMUNICATION - BPM	ENCODED COMMUNICATION	
D FC22-16	OK TO START (ENCODED COMMUNICATION)		
D FC22-17	SECURITY ACKNOWLEDGE (ENCODED COMMUNICATION)		

Fig. 03.1

COMPONENTS

Component	Connector / Type / Color	Location / Access
BATTERY	BT66 / BATTERY CABLE CLAMP BT67 / BATTERY CABLE CLAMP	TRUNK / BATTERY COVER
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
ENGINE CONTROL MODULE	EM10 / 28-WAY MULTILOCK 040 / GREY EM11 / 16-WAY MULTILOCK 040 / GREY EM12 / 22-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM14 / 12-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
GENERATOR	AN1 / EYELET AN2 / EYELET ST4 / EYELET	ENGINE COMPARTMENT / RH FRONT
HIGH POWER PROTECTION MODULE	BT60 / EYELET BT61 / EYELET BT62 / EYELET BT63 / EYELET	TRUNK / ADJACENT TO BATTERY
IGNITION SWITCH	FC4 / 8-WAY MULTILOCK 070 / WHITE	STEERING COLUMN
KEY TRANSPONDER MODULE	FC22 / 20-WAY MULTILOCK 040 / GREEN	BELOW INSTRUMENT PACK
NEUTRAL SWITCH	CC21 / 3-WAY MULTILOCK 070 / GREY	GEAR SELECTOR ASSEMBLY / CENTER CONSOLE
REGULATOR (GENERATOR)	PI50 / 3-WAY SUMITOMO 92 / BLACK	ENGINE COMPARTMENT / RH FRONT
STARTER MOTOR	ST1 / EYELET ST2 / EYELET ST3 / EYELET	ENGINE COMPARTMENT / ENGINE BLOCK / RH SIDE
SUPPRESSION MODULE	AN3 / 3-WAY ECONOSEAL III LC / RED	ENGINE COMPARTMENT / RIGHT FRONT

RELAYS

Relay	Case Color	Connector / Color	Location / Access
STARTER RELAY	BROWN	EM50 / BROWN	CONTROL MODULE ENCLOSURE RELAYS / ENGINE COMPARTMENT

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
EM3	14-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
EM60	2-WAY ECONOSEAL III HC / GREY	ENGINE COMPARTMENT / ADJACENT RH TO FALSE BULKHEAD
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE / COIN TRAY
PI1	57-WAY SUMITOMO TS090 / BLACK	ENGINE COMPARTMENT / BULKHEAD / REAR OF ENGINE
PI2	13-WAY ECONOSEAL III LC / BLACK	ENGINE COMPARTMENT / BRACKET ON TOP OF TRANSMISSION
ST5	EYELET	ENGINE COMPARTMENT / RH FALSE BULKHEAD
ST6	EYELET	ENGINE COMPARTMENT / RH FALSE BULKHEAD

GROUNDS

Ground	Location / Type
BT66	EYELET (SINGLE) - BATTERY GROUND STUD
CC3R	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
FC17L	EYELET (PAIR) - EMS BULKHEAD GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

I	Input	D	Serial and encoded communications	B+	Battery voltage	KHz	Frequency x 1000
O	Output	C	CAN (Network)	V	Voltage (DC)	MS	Milliseconds
SG	Signal Ground	S	SCP Network	Hz	Frequency	MV	Millivolts

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

CONTROL MODULE PIN OUT INFORMATION

BODY PROCESSOR MODULE

Pin	Description	Active	Inactive
I FC15-7	NEUTRAL SWITCH STATUS	GROUND (N)	B+ (P, R, D, 4, 3, 2)
D FC15-21	SERIAL COMMUNICATION - KEY TRANSPONDER	ENCODED COMMUNICATION	
D FC15-39	SECURITY ACKNOWLEDGE	ENCODED COMMUNICATIONS	
I FC15-41	STARTER ENGAGE REQUEST	GROUND (CRANKING)	B+
O FC15-73	STARTER RELAY ACTIVATE	GROUND (CRANKING)	B+
I FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
D FC15-92	ENCODED COMMUNICATIONS		

ENGINE CONTROL MODULE

Pin	Description	Active	Inactive
D EM10-6	OK TO START - ENCODED COMMUNICATIONS		
I EM10-15	PARK / NEUTRAL CONFIRMATION	B+ (P, N)	GROUND (R,D,4,3,2)
D EM10-17	SECURITY ACKNOWLEDGE	ENCODED COMMUNICATIONS	
I EM11-6	ENGINE CRANK	GROUND (CRANKING)	B+

KEY TRANSPONDER MODULE

Pin	Description	Active	Inactive
D FC22-9	SERIAL COMMUNICATION (ENCODED COMMUNICATION)		
D FC22-11	SERIAL COMMUNICATION - BPM	ENCODED COMMUNICATION	
D FC22-16	OK TO START (ENCODED COMMUNICATION)		
D FC22-17	SECURITY ACKNOWLEDGE (ENCODED COMMUNICATION)		

DUAL LINEAR SWITCH

Pin	Description	Active	Inactive
I CC8-2	TCM / DUAL LINEAR SWITCH COMMON GROUND SUPPLY	GROUND	GROUND
O CC8-4	NEUTRAL SWITCH STATUS	GROUND (N)	B+ (P, R, D, 4, 3, 2)
O CC8-5	PARK / NEUTRAL CONFIRMATION	B+ (P, N)	GROUND (R, D, 4, 3, 2)

Fig. 03.2

COMPONENTS

Component	Connector / Type / Color	Location / Access
BATTERY	BT66 / BATTERY CABLE CLAMP BT67 / BATTERY CABLE CLAMP	TRUNK / BATTERY COVER
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEC / GREY	BULKHEAD / BEHIND GLOVE BOX
DUAL LINEAR SWITCH	CC8 / 12-WAY MULTILOCK 070 / WHITE	RIGHT HAND SIDE OF GEAR SELECTOR / CENTER CONSOLE
ENGINE CONTROL MODULE	EM10 / 28-WAY MULTILOCK 040 / GREY EM11 / 18-WAY MULTILOCK 040 / GREY EM12 / 22-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM14 / 12-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
GENERATOR	AN1 / EYELET AN2 / EYELET ST4 / EYELET	ENGINE COMPARTMENT / RH FRONT
HIGH POWER PROTECTION MODULE	BT60 / EYELET BT61 / EYELET BT62 / EYELET BT63 / EYELET	TRUNK / ADJACENT TO BATTERY
IGNITION SWITCH	FC4 / 8-WAY MULTILOCK 070 / WHITE	STEERING COLUMN
KEY TRANSPONDER MODULE	FC22 / 20-WAY MULTILOCK 040 / GREEN	BELOW INSTRUMENT PACK
REGULATOR (GENERATOR)	PI50 / 3-WAY SUMITOMO 92 / BLACK	ENGINE COMPARTMENT / RH FRONT
STARTER MOTOR	ST1 / EYELET ST2 / EYELET ST3 / EYELET	ENGINE COMPARTMENT / ENGINE BLOCK / RH SIDE
SUPPRESSION MODULE	AN3 / 3-WAY ECONOSEAL III LC / RED	ENGINE COMPARTMENT / RIGHT FRONT

RELAYS

Relay	Case Color	Connector / Color	Location / Access
STARTER RELAY	BROWN	EM50 / BROWN	CONTROL MODULE ENCLOSURE RELAYS / ENGINE COMPARTMENT

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
EM3	14-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
EM60	2-WAY ECONOSEAL III HC / GREY	ENGINE COMPARTMENT / ADJACENT RH TO FALSE BULKHEAD
EM63	14-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE / COIN TRAY
PI1	57-WAY SUMITOMO TS090 / BLACK	ENGINE COMPARTMENT / BULKHEAD / REAR OF ENGINE
PI2	13-WAY ECONOSEAL III LC / BLACK	ENGINE COMPARTMENT / BRACKET ON TOP OF TRANSMISSION
ST5	EYELET	ENGINE COMPARTMENT / RH FALSE BULKHEAD
ST6	EYELET	ENGINE COMPARTMENT / RH FALSE BULKHEAD

GROUNDS

Ground	Location / Type
BT65	EYELET (SINGLE) - BATTERY GROUND STUD
FC17L	EYELET (PAIR) - EMS BULKHEAD GROUND STUD
EM8R	EYELET (PAIR) - EMS LH GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

I	Input	D	Serial and encoded communications	B+	Battery voltage	KHz	Frequency x 1000
O	Output	C	CAN (Network)	V	Voltage (DC)	MS	Milliseconds
SG	Signal Ground	S	SCP Network	Hz	Frequency	MV	Millivolts

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

CONTROL MODULE PIN OUT INFORMATION

AIR CONDITIONING CONTROL MODULE

Table with 5 columns: Pin, Description, Active, Inactive. Rows include CC28-1 (COMPRESSOR CLUTCH STATUS), CC30-1 (AIR CONDITIONING ELECTRICAL LOAD SIGNAL), CC31-7 (LOAD INHIBIT), CC31-9 (COMPRESSOR CLUTCH ON REQUEST), CC31-17 (REFRIGERANT 4 WAY PRESSURE SWITCH).

ENGINE CONTROL MODULE

Table with 5 columns: Pin, Description, Active, Inactive. Rows include EM10-2 (A/CCM LOAD INHIBIT), EM10-3 (A/CCM ELECTRICAL LOAD SIGNAL), EM10-4 (A/CCM COMPRESSOR CLUTCH REQUEST), EM10-11 (CRUISE CONTROL BRAKE CANCEL REQUEST), EM11-1 (CRUISE CONTROL SET +/-), EM11-4 (CRUISE CONTROL ON REQUEST), EM11-5 (CRUISE CONTROL CANCEL / RESUME), EM12-5 (4 WAY REFRIGERANT SWITCH HIGH PRESSURE), EM12-6 (4 WAY REFRIGERANT SWITCH HIGH PRESSURE), EM12-8 (IGNITION MODULE 2 SWITCHING FEEDBACK), EM12-9 (IGNITION MODULE 1 SWITCHING FEEDBACK), EM12-10 (AIR CONDITIONING COMPRESSOR RELAY ACTIVATE), EM13-1 (FUEL PUMP RELAY ACTIVATE), EM13-3 (CRUISE CONTROL ON STATUS LED), EM13-15 (SERIES (LOW) SPEED FAN ACTIVATE), EM13-16 (PARALLEL (HIGH) SPEED FAN ACTIVATE), EM13-22 (IGNITION COIL RELAY ACTIVATE), EM13-23 (IGNITION MODULE 1 SWITCHING), EM13-24 (IGNITION MODULE 2 SWITCHING), EM13-25 (IGNITION MODULE 2 SWITCHING), EM13-26 (IGNITION MODULE 1 SWITCHING), EM13-31 (IGNITION MODULE 2 SWITCHING), EM13-32 (IGNITION MODULE 1 SWITCHING), EM13-33 (IGNITION MODULE 1 SWITCHING), EM13-34 (IGNITION MODULE 1 SWITCHING), EM15-4 (INJECTOR '3B' ACTIVATE), EM15-5 (INJECTOR '2B' ACTIVATE), EM15-6 (INJECTOR '4A' ACTIVATE), EM15-7 (INJECTOR '1A' ACTIVATE), EM15-15 (INJECTOR '4B' ACTIVATE), EM15-16 (INJECTOR '3A' ACTIVATE), EM15-17 (INJECTOR '2A' ACTIVATE), EM15-18 (INJECTOR '1B' ACTIVATE).

Fig. 04.4

COMPONENTS

Table with 4 columns: Component, Connector / Type / Color, Location / Access. Rows include AIR CONDITIONING COMPRESSOR CLUTCH, BRAKE CANCEL SWITCH, CRUISE CONTROL ON / OFF SWITCH, FUEL INJECTOR - 1A through 4B, IGNITION COIL - 1A through 1B, IGNITION COIL - 2A through 2E, IGNITION MODULE - 1 and 2, RADIATOR FAN CONTROL RELAY MODULE, RADIATOR FAN - LH and RH, REFRIGERANT 4-WAY PRESSURE SWITCH.

RELAYS

Table with 4 columns: Relay, Case Color, Connector / Color, Location / Access. Rows include AIR CONDITIONING COMPRESSOR CLUTCH RELAY, FUEL INJECTION RELAY, FUEL PUMP RELAY, IGNITION COIL RELAY.

HARNESS-TO-HARNESS CONNECTORS

Table with 3 columns: Connector, Type / Color, Location / Access. Rows include BT4 (54-WAY THROUGH PANEL / BLACK), EM1 (12-WAY AUGAT 1.6 / BLACK), EM3 (14-WAY MULTILOCK 070 / WHITE), EM51 (12-WAY AUGAT 1.6 / GREY), EM53 (20-WAY MULTILOCK 070 / WHITE), FC1 (54-WAY THROUGH PANEL CONNECTOR / BLACK), LS32 (4-WAY YAZAKI / GREY), PI1 (57-WAY SUMITOMO TS090 / BLACK), PI2 (13-WAY ECONOSEAL III LC / BLACK), SC3 (12-WAY MULTILOCK 070 / GREY), SW1 (12-WAY MULTILOCK 040 / BLACK), SW2 (6-WAY JST / WHITE).

GROUND S

Table with 2 columns: Ground, Location / Type. Rows include BT20 (EYELET (SINGLE) - TRUNK / RH REAR GROUND STUD), EM8R (EYELET (PAIR) - EMS LH GROUND STUD), EM17 (EYELET (SINGLE) - EMS BULKHEAD GROUND STUD), FC17R (EYELET (PAIR) - EMS BULKHEAD GROUND STUD), LS10L (EYELET (PAIR) - LH FORWARD GROUND STUD), LS10R (EYELET (PAIR) - LH FORWARD GROUND STUD), LS20L (EYELET (PAIR) - RH FORWARD GROUND STUD).

The following symbols are used to represent values for Control Module Pin Out data:

Legend for symbols: I (Input), O (Output), SG (Signal Ground), D (Serial and encoded communications), C (CAN (Network)), S (SCP Network), B+ (Battery voltage), V (Voltage (DC)), Hz (Frequency), KHz (Frequency x 1000), MS (Milliseconds), MV (Millivolts).

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

CONTROL MODULE PIN OUT INFORMATION

GEAR SELECTOR ILLUMINATION MODULE

Pin	Description	Active	Inactive
I CC14-1	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
C CC14-3	CAN NETWORK	15 - 1500 Hz @ 2.5 V	
C CC14-4	CAN NETWORK	15 - 1500 Hz @ 2.5 V	
I CC14-6	GROUND	GROUND	GROUND
C CC14-8	CAN NETWORK	15 - 1500 Hz @ 2.5 V	
C CC14-9	CAN NETWORK	15 - 1500 Hz @ 2.5 V	

TRANSMISSION CONTROL MODULE: AJ26 N/A

Pin	Description	Active	Inactive
O EM7-1	PRESSURE REGULATOR #2	GROUND (MAXIMUM PRESSURE)	B+ (NO PRESSURE)
O EM7-2	SPORT MODE SWITCH STATUS LED	GROUND = LED ON	B+
O EM7-4	PRESSURE REGULATOR #4	GROUND (MAXIMUM PRESSURE)	B+ (NO PRESSURE)
O EM7-5	PRESSURE REGULATOR #1	GROUND (MAXIMUM PRESSURE)	B+ (NO PRESSURE)
I EM7-6	GROUND	GROUND	GROUND
I EM7-8	ROTARY SWITCH 'L2' CONTACTS	B+	GROUND
I EM7-9	ROTARY SWITCH 'L4' CONTACTS	B+	GROUND
I EM7-12	SPORT MODE SWITCH STRATEGY SELECT	GROUND = SPORT	9 V = NORMAL
I EM7-13	D - 4 SWITCH	GROUND	B+
I EM7-14	TURBINE SPEED SENSOR	300 Hz @ IDLE (2.5 V)	
SG EM7-15	OUTPUT SPEED SENSOR SHIELD	GROUND	GROUND
SG EM7-16	OUTPUT SPEED SENSOR	GROUND	GROUND
I EM7-18	KICKDOWN SWITCH	GROUND	B+
SG EM7-21	FLUID TEMPERATURE SENSOR	1.31 V	
I EM7-22	FLUID TEMPERATURE SENSOR FEEDBACK	1.15 V @ 90°C	
I EM7-23	TURBINE SPEED SENSOR SHIELD	GROUND	GROUND
I EM7-26	BATTERY POWER SUPPLY	B+	GROUND
O EM7-28	ROTARY / D - 4 / KICK DOWN SWITCHES COMMON GROUND	GROUND	GROUND
O EM7-29	PRESSURE REGULATOR #3	GROUND (MAXIMUM PRESSURE)	B+ (NO PRESSURE)
O EM7-30	SOLENOID VALVE #1	GROUND	B+
O EM7-32	SOLENOID VALVE #3	GROUND	B+
O EM7-33	SOLENOID VALVE #2	GROUND	B+
I EM7-34	GROUND	GROUND	GROUND
I EM7-36	ROTARY SWITCH 'L1' CONTACTS	B+	GROUND
I EM7-37	ROTARY SWITCH 'L3' CONTACTS	B+	GROUND
I EM7-42	TURBINE SPEED SENSOR	1.51 V @ 10 MPH (16 KM/H) = 250 Hz, 20 MPH (32 KM/H) = 500 Hz	
I EM7-44	OUTPUT SPEED SENSOR	1.51 V @ 10 MPH (16 KM/H) = 223 Hz, 20 MPH (32 KM/H) = 446 Hz	
I EM7-45	SPORT MODE SWITCH STRATEGY SELECT	10 v = SPORT	GROUND = NORMAL
O EM7-51	PRESSURE REGULATOR #5	GROUND (MAXIMUM PRESSURE)	B+ (NO PRESSURE)
O EM7-52	SOLENOID VALVES COMMON SUPPLY	B+	B+
O EM7-53	PRESSURE REGULATORS COMMON SUPPLY	B+	B+
I EM7-54	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
I EM7-55	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
C EM7-82	CAN NETWORK	15 - 1500 Hz	
C EM7-83	CAN NETWORK	15 - 1500 Hz	
C EM7-85	CAN NETWORK	15 - 1500 Hz	
C EM7-86	CAN NETWORK	15 - 1500 Hz	

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 05.1

COMPONENTS

Component	Connector / Type / Color	Location / Access
D - 4 SWITCH	CC7 / 3-WAY MULTILOCK 070 / YELLOW	CENTER CONSOLE ASSEMBLY
GEAR SELECTOR ILLUMINATION MODULE	CC14 / 10-WAY MULTILOCK 070 / WHITE	CENTER CONSOLE ASSEMBLY
KICKDOWN SWITCH	CC18 / 2-WAY ECONOSEAL III / BLACK	UNDER ACCELERATOR PEDAL
MODE SWITCH (TRANSMISSION)	CC4 / 10 WAY AMP MICRO QUAD LOCK / BLACK	CENTER CONSOLE ASSEMBLY
TRANSMISSION CONTROL MODULE: AJ26 N/A	EM7 / 88-WAY BOSCH / BLACK	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
TRANSMISSION ELECTRICAL CONNECTOR: AJ26 N/A	EM46 / 16-WAY KOSTAL TRANSMISSION CONNECTOR / BLACK	LEFT HAND REAR OF TRANSMISSION
TRANSMISSION ROTARY SWITCH	EM47 / 10-WAY METRI-PACK 150 / BLACK	ENGINE COMPARTMENT / BRACKET ON TOP OF TRANSMISSION

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
EM53	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / LOWER 'A' POST FINISHER

GROUNDS

Ground	Location / Type
CC2R	EYELET (PAIR) - DRIVE SHAFT TUNNEL GROUND STUD - LH SIDE
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
EM8R	EYELET (PAIR) - EMS LH GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

I Input	D Serial and encoded communications	B+ Battery voltage	KHz Frequency x 1000
O Output	C CAN (Network)	V Voltage (DC)	MS Milliseconds
SG Signal Ground	S SCP Network	Hz Frequency	MV Millivolts

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

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CONTROL MODULE PIN OUT INFORMATION

GEAR SELECTOR ILLUMINATION MODULE

Pin	Description	Active	Inactive
I CC14-1	IGNITION SWITCHED POWER SUPPLY	B+	GROUND
C CC14-3	CAN NETWORK	15 – 1500 Hz @ 2.5 V	
C CC14-4	CAN NETWORK	15 – 1500 Hz @ 2.5 V	
I CC14-6	GROUND	GROUND	GROUND
C CC14-8	CAN NETWORK	15 – 1500 Hz @ 2.5 V	
C CC14-9	CAN NETWORK	15 – 1500 Hz @ 2.5 V	

TRANSMISSION CONTROL MODULE: AJ26 SC

Pin	Description	Active	Inactive
D EM61-1	SERIAL COMMUNICATIONS		
I EM61-2	KICKDOWN SWITCH	GROUND (= WOT)	B+ (< WOT)
I EM61-3	SPORT MODE SWITCH	0 V = SPORT; 0 V = NORMAL	
I EM61-25	DUAL LINEAR SWITCH VOLTAGE ENCODED GEAR RECOGNITION	GROUND = R, D, 4, 3	B+ = P, N, 2
I EM61-26	DUAL LINEAR SWITCH VOLTAGE ENCODED GEAR RECOGNITION	GROUND = N, D, 4, 2	B+ = P, R, 3
I EM61-27	DUAL LINEAR SWITCH VOLTAGE ENCODED GEAR RECOGNITION	GROUND = N, 4, 3, 2 8 V = R, D	B+ = P
I EM61-28	DUAL LINEAR SWITCH VOLTAGE ENCODED GEAR RECOGNITION	GROUND = P, D, 3, 2	B+ = R, N, 4
I EM61-29	IGNITION SUPPLIED VOLTAGE	B+	GROUND
I EM61-30	TCM / DUAL LINEAR SWITCH COMMON GROUND SUPPLY	GROUND	GROUND
C EM62-L	CAN NETWORK	5 – 1500 Hz	
C EM62-H	CAN NETWORK	5 – 1500 Hz	
I EM62-12	n2 SPEED SENSOR FEEDBACK	6V = 900 Hz @ 10 MPH (16 KPH); 1800 HZ @ 20 MPH (32 KH) ('2' SELECTED - '1' ENGAGED)	
O EM62-13	SPEED SENSOR COMMON VOLTAGE SUPPLY	5V	
O EM62-14	'1-2 / 4-5' SOLENOID ACTIVATE	GROUND	B+
O EM62-15	'3-4' SOLENOID ACTIVATE	GROUND	B+
O EM62-16	'2-3' SOLENOID ACTIVATE	GROUND	B+
O EM62-17	TCC SOLENOID ACTIVATE	GROUND = LOCKED	B- = UNLOCKED
O EM62-33	SPEED SENSOR / FLUID TEMP. SENSOR COMMON GROUND	GROUND	GROUND
I EM62-34	FLUID TEMP. SENSOR FEEDBACK	1.75 V @ 90° C = R, D, 4, 3, 2	5 V = P, N
I EM62-35	n3 SPEED SENSOR FEEDBACK	6 V = 85 Hz @ 10 MPH (16 KPH); 170 Hz @ 20 MPH (32 KPH) ('2' SELECTED - '2' ENGAGED)	
O EM62-36	MODULATION PRESSURE REGULATOR ACTIVATE	GROUND (42% PWM @ IDLE)	B+
O EM62-37	SHIFT PRESSURE REGULATOR ACTIVATE	GROUND (39% PWM @ IDLE)	B+
O EM62-38	SOLENOID VALVE / PRESSURE REGULATOR COMMON VOLTAGE SUPPLY	B+	GROUND

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 05.2

COMPONENTS

Component	Connector / Type / Color	Location / Access
DUAL LINEAR SWITCH	CCR / 12-WAY MULTILOCK 070 / WHITE	RIGHT HAND SIDE OF GEAR SELECTOR / CENTER CONSOLE
GEAR SELECTOR ILLUMINATION MODULE	CC14 / 10-WAY MULTILOCK 070 / WHITE	CENTER CONSOLE ASSEMBLY
KICKDOWN SWITCH	CC18 / 2-WAY ECONOSEAL III / BLACK	UNDER ACCELERATOR PEDAL
MODE SWITCH (TRANSMISSION)	CC4 / 10-WAY AMP MICRO QUAD LOCK / BLACK	CENTER CONSOLE ASSEMBLY
TRANSMISSION CONTROL MODULE: AJ26 SC	EM61 / 18-WAY AMP JUNIOR POWER TIMER / BLACK EM62 / 14 WAY AMP JUNIOR POWER TIMER / BLACK	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
TRANSMISSION ELECTRICAL CONNECTOR: AJ26 SC	GB1 / 12-WAY KOSTAL 1.5 / BLACK	TRANSMISSION

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
EM44	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTMENT / BRACKET ON TOP OF TRANSMISSION
EM53	20-WAY MULTILOCK 070 / WHITE	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
EM63	14-WAY MULTILOCK 070 / YELLOW	PASSENGER 'A' POST / LOWER 'A' POST FINISHER

GROUNDS

Ground	Location / Type
CC2R	EYELET (PAIR) – DRIVE SHAFT TUNNEL GROUND STUD – LH SIDE
CC3L	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
CC3R	EYELET (PAIR) – RH FRONT BULKHEAD STUD / CABIN SIDE
EM8R	EYELET (PAIR) – EMS LH GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

I Input	D Serial and encoded communications	B+ Battery voltage	KHz Frequency x 1000
O Output	C CAN (Network)	V Voltage (DC)	MS Milliseconds
SG Signal Ground	S SCP Network	Hz Frequency	MV Millivolts

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

REFER TO THE FRONT OF THE BOOK FOR ILLUSTRATIONS DETAILING THE LOCATION AND IDENTIFICATION OF COMPONENTS, RELAYS, CONNECTORS, HARNESSES, GROUNDS, VEHICLE CONTROL MODULES AND CONTROL MODULE PINS.

CONTROL MODULE PIN OUT INFORMATION

BODY PROCESSOR MODULE

Pin	Description	Active	Inactive
I FC15-15	IGNITION SWITCHED GROUND	GROUND	B+
I FC15-32	IGNITION SWITCHED GROUND	GROUND	B+
O FC15-48	GEARSHIFT INTERLOCK SOLENOID ACTIVATE	B+ (UNLOCKED)	GROUND (LOCKED)
O FC15-51	COLUMN SWITCHGEAR KEYLOCK SOLENOID ACTIVATE	B+ (LOCKED)	GROUND (UNLOCKED)
I FC15-58	NOT IN PARK MICROSWITCH STATUS	GROUND (PARK)	B+ (NOT IN PARK)
I FC15-80	BATTERY SUPPLY VOLTAGE	B+	B+
S FC15-84	SCP NETWORK	2 - 1600 Hz	
S FC15-85	SCP NETWORK	2 - 1600 Hz	
I FC15-104	BATTERY SUPPLY VOLTAGE	B+	B+

ENGINE CONTROL MODULE

Pin	Description	Active	Inactive
I EM10-10	BRAKE SWITCH	GROUND	B+
C EM10-27	CAN NETWORK	15 - 1500 Hz	
C EM10-28	CAN NETWORK	15 - 1500 Hz	

GEAR SELECTOR ILLUMINATION MODULE

Pin	Description	Active	Inactive
C CC14-3	CAN NETWORK	15 - 1500 Hz @ 2.5 V	
C CC14-4	CAN NETWORK	15 - 1500 Hz @ 2.5 V	
C CC14-8	CAN NETWORK	15 - 1500 Hz @ 2.5 V	
C CC14-9	CAN NETWORK	15 - 1500 Hz @ 2.5 V	

INSTRUMENT PACK

Pin	Description	Active	Inactive
S FC24-19	SCP NETWORK	2 - 1600 Hz	
S FC24-20	SCP NETWORK	2 - 1600 Hz	
C FC24-24	CAN NETWORK	15 - 1500 Hz	
C FC24-47	CAN NETWORK	15 - 1500 Hz	

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 05.3

COMPONENTS

Component	Connector / Type / Color	Location / Access
BODY PROCESSOR MODULE	FC15 / 14-WAY AMP EEEEC / GREY	RUI KHEAD / BEHIND GLOVE BOX
BRAKE SWITCH	CC40 / 4-WAY MULTILOCK 070 / WHITE	ADJACENT TO THE BRAKE PEDAL MOUNTING ASSEMBLY
ENGINE CONTROL MODULE	EM10 / 28-WAY MULTILOCK 040 / GREY EM11 / 16-WAY MULTILOCK 040 / GREY EM12 / 22-WAY MULTILOCK 040 / GREY EM13 / 34-WAY MULTILOCK 040 / GREY EM14 / 12-WAY MULTILOCK 47 / WHITE EM15 / 22-WAY MULTILOCK 47 / WHITE	ENGINE COMPARTMENT / CONTROL MODULE ENCLOSURE
GEAR SELECTOR ILLUMINATION MODULE	CC14 / 10-WAY MULTILOCK 070 / WHITE	CENTER CONSOLE ASSEMBLY
GEARSHIFT INTERLOCK SOLENOID	CC12 / 2-WAY MULTILOCK 070 / WHITE	GEAR SELECTOR ASSEMBLY / CENTER CONSOLE
INSTRUMENT PACK	FC24 / 48-WAY AMP MODULE PCB SIGNAL / BLACK FC25 / 24-WAY AMP MODULE PCB SIGNAL / BLACK	FASCIA
KEYLOCK SOLENOID (COLUMN SWITCHGEAR)	SC5 / 2-WAY MULTILOCK 040 / BLUE	COLUMN SWITCHGEAR
NOT-IN-PARK MICROSWITCH	CC13 / 3-WAY MULTILOCK 070 / YELLOW	CENTER CONSOLE ASSEMBLY

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTMENT / ADJACENT TO ABS PUMP
EM2	20-WAY MULTILOCK 070 / GREY	PASSENGER 'A' POST / LOWER 'A' POST FINISHER
FC7	20-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE / COIN TRAY
FC11	18-WAY MULTILOCK 070 / WHITE	ABOVE DIMMER MODULE / COIN TRAY
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A' POST FINISHER
SC1	12-WAY MULTILOCK 070 / WHITE	COLUMN SWITCHGEAR

GROUNDS

Ground	Location / Type
CC2R	EYELET (PAIR) - DRIVE SHAFT TUNNEL GROUND STUD - LH SIDE
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
FC29L	EYELET (PAIR) - LH BULKHEAD GROUND STUD / CABIN SIDE

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

I	Input	D	Serial and encoded communications	B+	Battery voltage	KHz	Frequency x 1000
O	Output	C	CAN (Network)	V	Voltage (DC)	MS	Milliseconds
SG	Signal Ground	S	SCP Network	Hz	Frequency	MV	Millivolts

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. "Active" means a load is applied or a switch is ON; "Inactive" means a load is not applied or a switch is OFF.

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CONTROL MODULE PIN OUT INFORMATION

ABS / TRACTION CONTROL CONTROL MODULE

Pin	Description	Active	Inactive
O LS27-1	BRAKE FLUID RESERVOIR LEVEL SWITCH REFERENCE	B+	B+
I LS27-2	BRAKE SWITCH	GROUND	B+
I LS27-3	RH FRONT WHEEL SPEED SENSOR	2.5 V @ 10 MPH (16 KM/H) = 100 Hz; 20 MPH (32 KM/H) = 200 Hz	
SG LS27-4	RH FRONT WHEEL SPEED SENSOR	2.5 V @ REST	
C LS27-5	CAN NETWORK	15 - 1500 Hz	
SG LS27-6	RH REAR WHEEL SPEED SENSOR	2.5 V @ REST	
I LS27-7	RH REAR WHEEL SPEED SENSOR	2.5 V @ 10 MPH (16 KM/H) = 100 Hz; 20 MPH (32 KM/H) = 200 Hz	
I LS27-8	POWER GROUND	GROUND	GROUND
I LS27-9	BATTERY POWER SUPPLY	B+	B+
I LS27-13	BRAKE FLUID RESERVOIR LEVEL SWITCH	GROUND	B+
I LS27-14	STABILITY / TRACTION CONTROL SWITCH	GROUND (MOMENTARY)	B+
C LS27-15	CAN NETWORK	15 - 1500 Hz	
O LS27-16	STABILITY / TRACTION CONTROL SWITCH STATE LED	GROUND	B+
I LS27-17	LH FRONT WHEEL SPEED SENSOR	2.5 V @ 10 MPH (16 KM/H) = 100 Hz; 20 MPH (32 KM/H) = 200 Hz	
SG LS27-18	LH FRONT WHEEL SPEED SENSOR	2.5 V @ REST	
LS27-19	NOT USED		
I LS27-20	IGNITION SWITCHED SUPPLY	B+	GROUND
I LS27-21	LH REAR WHEEL SPEED SENSOR	2.5 V @ 10 MPH (16 KM/H) = 100 Hz; 20 MPH (32 KM/H) = 200 Hz	
SG LS27-22	LH REAR WHEEL SPEED SENSOR	2.5 V @ REST	
I LS27-24	POWER GROUND	GROUND	GROUND
I LS27-25	BATTERY POWER SUPPLY	B+	B+

NOTE: REFER TO THE APPENDIX AT THE REAR OF THIS BOOK FOR CAN AND SCP NETWORK MESSAGES.

Fig. 06.1

COMPONENTS

Component	Connector / Type / Color	Location / Access
ABS / TRACTION CONTROL CONTROL MODULE	LS27 / 25-WAY AMP / FORD / BLACK	ENGINE COMPARTMENT / BEHIND LH HEADLAMP ASSEMBLY
BRAKE FLUID RESERVOIR	FM37 / 2-WAY AMP JUNIOR POWER TIMER / BLACK	ENGINE COMPARTMENT / ON BRAKE FLUID RESERVOIR
BRAKE SWITCH	CC40 / 4-WAY MULTILOCK 070 / WHITE	ADJACENT TO THE BRAKE PEDAL MOUNTING ASSEMBLY
STABILITY / TRACTION CONTROL SWITCH (CENTER CONSOLE SWITCH PACK)	CC1 / 16-WAY FORD IDC S.U. / BLACK	CENTER CONSOLE SWITCH PACK
WHEEL SPEED SENSOR - LH FRONT	FL1 / 2-WAY REINSHAGEN METRI 630 / BLACK	LH FRONT HUB ASSEMBLY
WHEEL SPEED SENSOR - LH REAR	LA2 / 2-WAY REINSHAGEN METRI 630 / BLACK	REAR AXLE / LH WHEEL HUB
WHEEL SPEED SENSOR - RH FRONT	FR1 / 2-WAY REINSHAGEN METRI 630 / BLACK	RH FRONT HUB ASSEMBLY
WHEEL SPEED SENSOR - RH REAR	RA2 / 2-WAY REINSHAGEN METRI 630 / BLACK	REAR AXLE / RH WHEEL HUB

HARNESS-TO-HARNESS CONNECTORS

Connector	Type / Color	Location / Access
CA9	6-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSHION
CA19	20-WAY MULTILOCK 070 / YELLOW	LH 'A' POST CONNECTOR MOUNTING BRACKET / LOWER 'A' POST FINISHER
CA29	4-WAY MULTILOCK 070 / WHITE	BELOW REAR SEAT CUSHION
EM1	12-WAY AUGAT 1.6 / BLACK	ENGINE COMPARTMENT / ADJACENT TO ABS PUMP
EM51	12-WAY AUGAT 1.6 / GREY	ENGINE COMPARTMENT / ADJACENT TO ABS PUMP
LS1	2-WAY AUGAT 1.6 / NATURAL	BELOW CHASSIS RAIL / LH SIDE
LS2	2-WAY AUGAT 1.6 / NATURAL	BELOW CHASSIS RAIL / RH SIDE
LS3	54-WAY THROUGH PANEL CONNECTOR / BLACK	LH 'A' POST / LOWER 'A' POST FINISHER

GROUNDS

Ground	Location / Type
CC3L	EYELET (PAIR) - RH FRONT BULKHEAD STUD / CABIN SIDE
LS29L	EYELET (PAIR) - ABS GROUND STUD
LS29R	EYELET (PAIR) - ABS GROUND STUD

CONTROL MODULE PIN OUT INFORMATION (FOLD OUT PAGE)



The following symbols are used to represent values for Control Module Pin Out data:

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