



Electrical Circuit Diagrams

*Elektrische
Circuitdiagrammen*

Schémas Électriques

Elektrische Schaltpläne

Schema di Circuiti

*Esquemas de Circuitos
Eléctricos*

*Diagramas dos Circuitos
Eléctricos*



AMENDMENT INSTRUCTION SHEET



MINI ELECTRICAL CIRCUIT DIAGRAMS

Publication Number RCL0194ENG

Amendment Number: **XN002.98ENG**

Date: **09/98**

To ensure that this manual is kept up to date and that a record of amendments to this manual is available, an Amendment Instruction Sheet will be issued with each set of revised pages.

- The Title page of the Manual is re-issued, and the Part No. has been raised to the next edition. Except for the Contents pages, all revised and new pages have the issue date at the foot of each page, together with an indication of whether the pages are revised or new.
- This Amendment Instruction Sheet must be inserted at the front of the manual to indicate that the amendment has been incorporated. Do not discard previous Amendment Instruction sheets.
- Your manual is only complete to this issue providing all prior Amendments are included.
- The filing instructions give section and page numbers affected. Additional pages or complete new sections may be issued, insert the pages as instructed.

FILING INSTRUCTIONS

Section	Discard Existing Pages	Insert New Pages	Reason for Amendment
CONTENTS PAGE	Contents page	Contents page	Part number raised to 2nd Edition and year of copyright amended.
POWER DISTRIBUTION	Page 1.1	Page 1.1	Model year qualifier on Catalyst overheat details
ANTI-THEFT ALARM AND HORN	Page 3.1	Page 3.1	Circuit details amended to include 1998 MY changes
CATALYST OVERHEAT	Page 37.2	Page 37.2	Model year qualifier on Catalyst overheat details
INDICATORS AND HAZARDS	Page 44.1	Page 44.1	Circuit details amended to include 1998 MY changes

AMENDMENT INSTRUCTION SHEET



MINI ELECTRICAL CIRCUIT DIAGRAMS

Publication Number RCL0194ENG

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Date: **03/99**

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FILING INSTRUCTIONS

Section	Discard Existing Pages	Insert New Pages	Reason for Amendment
CONTENTS PAGE	Contents page	Contents page	Part number raised to 3rd Edition and year of copyright amended.
IN-CAR ENTERTAINMENT	Page 50.1	Page 50.1	Radio cassette player sub-heading added.
IN-CAR ENTERTAINMENT		Page 50.2	Radio CD player circuit diagram added.

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ELECTRICAL CIRCUIT DIAGRAMS

RCL 0194ENG (3rd Edition)

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**THE CIRCUITS CONTAINED WITHIN THIS
PUBLICATION ARE ONLY VALID FOR VEHICLES
WITH THE VIN NUMBERS SPECIFIED BELOW:**

**Japan only - SAXXNNAXKBD 134455
All other vehicles - SAXXNNAZEBD 134455**

COLOUR CODES

DRAADKLEURCODES

CODES DES COULEURS DES FILS

KABELFARBCODES

CODICI COLORI DEI CAVI

CÓDIGOS DE COLORES DE LOS CABLES

CÓDIGOS DAS CORES DOS FIOS

CODE COLOUR	CODE KLEUR	CODE COULEUR	C O D E F A R B E	CODICE COLORE	CODIGO COLOR	CÓDIGO COR
B BLACK	B ZWART	B NOIR	B SCHWARZ	B NERO	B NEGRO	B PRETO
G GREEN	G GROEN	G VERT	G GRÜN	G VERDE	G VERDE	G VERDE
K PINK	K ROZE	K ROSE	K ROSA	K ROSA	K ROSA	K ROSA
LG LIGHT GREEN	LG LICHTGROEN	LG VERT CLAIR	LG HELLGRÜN	LG VERDE CHIARO	LG VERDE CLARO	LG VERDE CLARO
N BROWN	N BRUIN	N BRUN	N BRAUN	N MARRONE	N MARRON	N CASTANHO
O ORANGE	O ORANJE	O ORANGE	O ORANGE	O ARANCIONE	O NARANJA	O LARANJA
P PURPLE	P PAARS	P VIOLET	P LILA	P PORPORA	P PURPURA	P ROXO
R RED	R ROOD	R ROUGE	R ROT	R ROSSO	R ROJO	R VERMELHO
S SLATE (grey)	S LEIGRIJS	S GRIS	S GRAU	S ARDESIA (grigio)	S PIZARRA (gris)	S CINZENTO
U BLUE	U BLAUW	U BLEU	U BLAU	U BLU	U AZUL	U AZUL
W WHITE	W WIT	W BLANC	W WEISS	W BIANCO	W BLANCO	W BRANCO
Y YELLOW	Y GEEL	Y JAUNE	Y GELB	Y GIALLO	Y AMARILLO	Y AMARELO

HOW TO USE THE CIRCUIT DIAGRAMS

All of the information in this folder is intended for use with the Electrical Reference Library on TestBook.

The circuit diagrams are presented with Power and Ground distribution first, followed by individual circuits for each electrical system on the car.

Wiring between connectors and components shown in the diagrams represents the actual wiring as it exists on the vehicle. A chart is provided, giving colour codes for the wiring colour identification.

Power Distribution

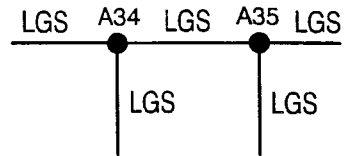
The Power Distribution diagram shows the connections from the battery to the engine and passenger compartment fuseboxes. It also shows the internal circuitry of both the passenger and engine compartment fuseboxes.

Earth Distribution

The earth distribution diagram shows the individual earth points and all the circuits affected by them.

SYMBOLS USED IN THE CIRCUIT DIAGRAMS

Wire colour



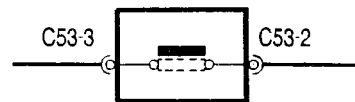
86M3823

Wire insulation is either all one colour, or is one predominant colour with a stripe in a second colour. Wire colours are identified by a letter code, the main colour is identified first. LG/S = Light green / Slate stripe.

Sealed joints

Each sealed joint is identified by a number with an alphabetical character prefix. These can be used to identify where a sealed joint appears on more than one circuit and assists in understanding the relationships between circuits.

Connectors



86M3824

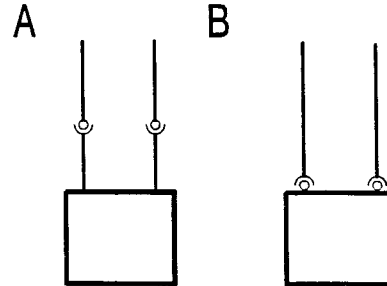
The connector number has two parts; the first part is the connector identifier i.e. C53, the second part is the pin number, i.e. C53-3 which indicates that the particular wire is connected to pin number 3. Should be used in conjunction with the Connector Detail section of the Electrical Reference Library.

Line types



86M3825

This means the wire connects to another circuit or component.



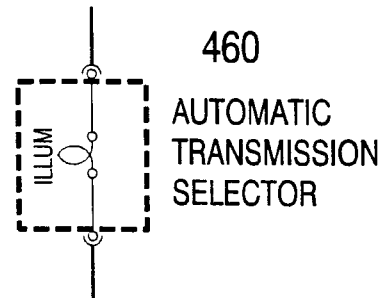
86M3826

Connector - Direction of the 'symbol' indicates male and female halves of connector.

A. Plug on lead (Flylead) wired directly to the component.

B. Connector plugs directly into component.

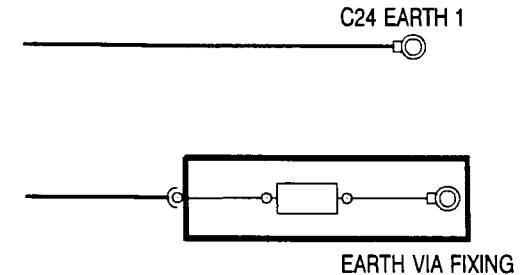
Components



86M3827

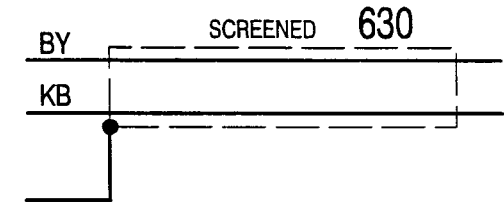
Name or description - appears next to the component.

Earth points



86M3829

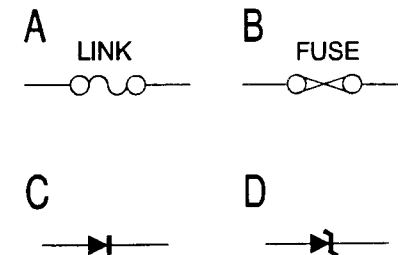
An eyelet symbol drawn within a box and without a connector number indicates that a component is earthed by its fixing. All other earth terminals are shown with a connector number, and these are either earth points or earth headers. The location of earth headers can be determined using the connector number and referring to the Earth Points and Headers section of the Electrical Reference Library.



86M3830

Identifies Radio Frequency Interference (RFI) shielded wire. The shielding is always connected to earth.

Fuses and Diodes



86M3831

Fusible links (A) and current rated fuses (B) are drawn as shown.

Diode (C) current flow is in the direction of the arrow. Zener type diode (D) - prevents current flow until a precise voltage is reached.

[illegible]

The diagram illustrates the electrical wiring for a vehicle, organized into three main sections: A, B, and C. The wiring is color-coded by circuit: brown for the MEMS Relay Module, blue for the Lighting Switch, red for the Instrument Pack, and green for the Brake Pedal Switch and Direction Indicator Relay.

Section A (Left): Shows the power source (30 AMP) and the connection to the MEMS Relay Module (693) and the Lighting Switch (002). The MEMS Relay Module is connected to the Instrument Pack (135), Alarm ECU (752), Oil Temperature Gauge (423), Voltage Gauge (319), MEMS Relay Module (693), and MEMS Control Unit (467). The Lighting Switch is connected to the MEMS Relay Module (693) and the Instrument Pack (135).

Section B (Center): Shows the fuse block with fuses C1 through C7 and C101 through C104. The wiring is organized into three main circuits: brown (MEMS Relay Module), blue (Lighting Switch), and red (Instrument Pack). The brown circuit includes the MEMS Relay Module (693), the Instrument Pack (135), the Oil Temperature Gauge (423), the Voltage Gauge (319), the MEMS Relay Module (693), and the MEMS Control Unit (467). The blue circuit includes the Lighting Switch (002), the Instrument Pack (135), the Oil Temperature Gauge (423), the Voltage Gauge (319), the MEMS Relay Module (693), and the MEMS Control Unit (467). The red circuit includes the Instrument Pack (135), the Oil Temperature Gauge (423), the Voltage Gauge (319), the MEMS Relay Module (693), and the MEMS Control Unit (467).

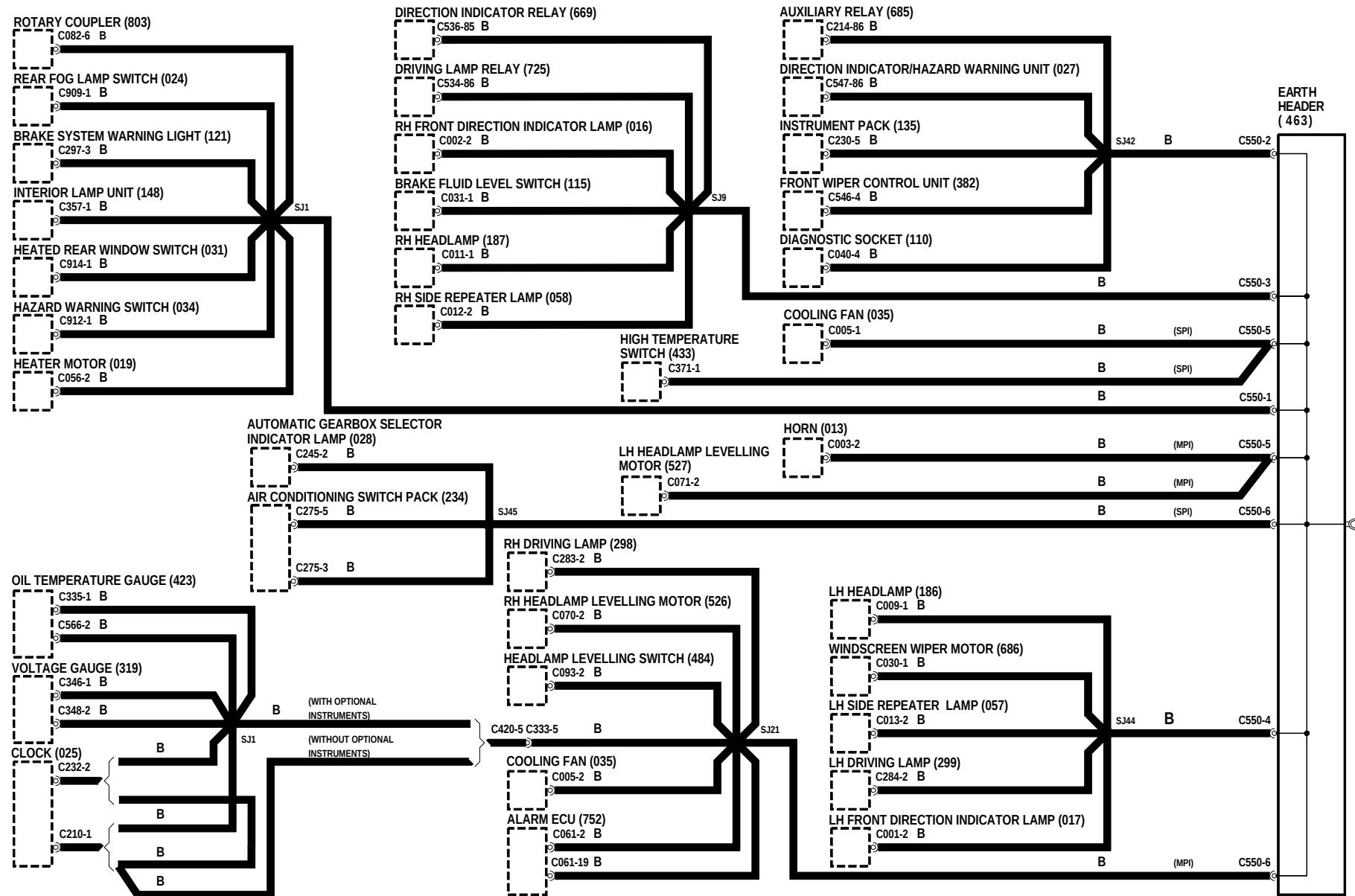
Section C (Right): Shows the connection to the Instrument Pack (135), the Oil Temperature Gauge (423), the Voltage Gauge (319), the MEMS Relay Module (693), and the MEMS Control Unit (467). The Instrument Pack is connected to the Oil Temperature Gauge (423), the Voltage Gauge (319), the MEMS Relay Module (693), and the MEMS Control Unit (467). The Oil Temperature Gauge is connected to the Voltage Gauge (319), the MEMS Relay Module (693), and the MEMS Control Unit (467). The Voltage Gauge is connected to the MEMS Relay Module (693) and the MEMS Control Unit (467). The MEMS Relay Module is connected to the MEMS Control Unit (467).

Section D (Bottom): Shows the connection to the Brake Pedal Switch (228), the Direction Indicator Relay (669), and the Reverse Lamp Switch (509). The Brake Pedal Switch is connected to the Direction Indicator Relay (669) and the Reverse Lamp Switch (509). The Direction Indicator Relay is connected to the Reverse Lamp Switch (509).

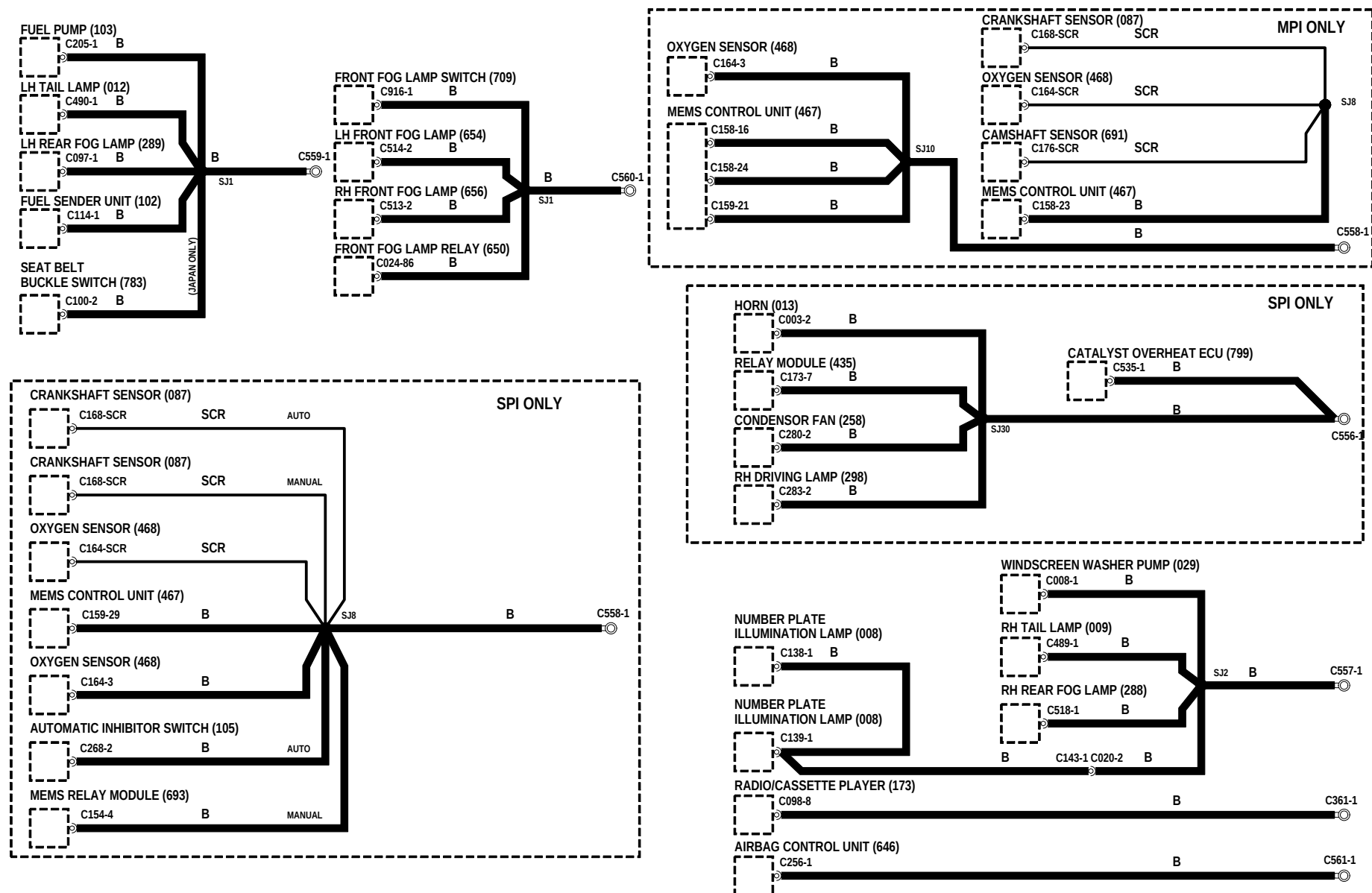
Section E (Bottom): Shows the connection to the Radio/Cassette Player (173), the Automatic Gearbox Selector Indicator Lamp (028), and the Cooling Fan Relay (257). The Radio/Cassette Player is connected to the Automatic Gearbox Selector Indicator Lamp (028) and the Cooling Fan Relay (257). The Automatic Gearbox Selector Indicator Lamp is connected to the Cooling Fan Relay (257).

Section F (Bottom): Shows the connection to the Radio/Cassette Player (173), the Automatic Gearbox Selector Indicator Lamp (028), and the Cooling Fan Relay (257). The Radio/Cassette Player is connected to the Automatic Gearbox Selector Indicator Lamp (028) and the Cooling Fan Relay (257). The Automatic Gearbox Selector Indicator Lamp is connected to the Cooling Fan Relay (257).

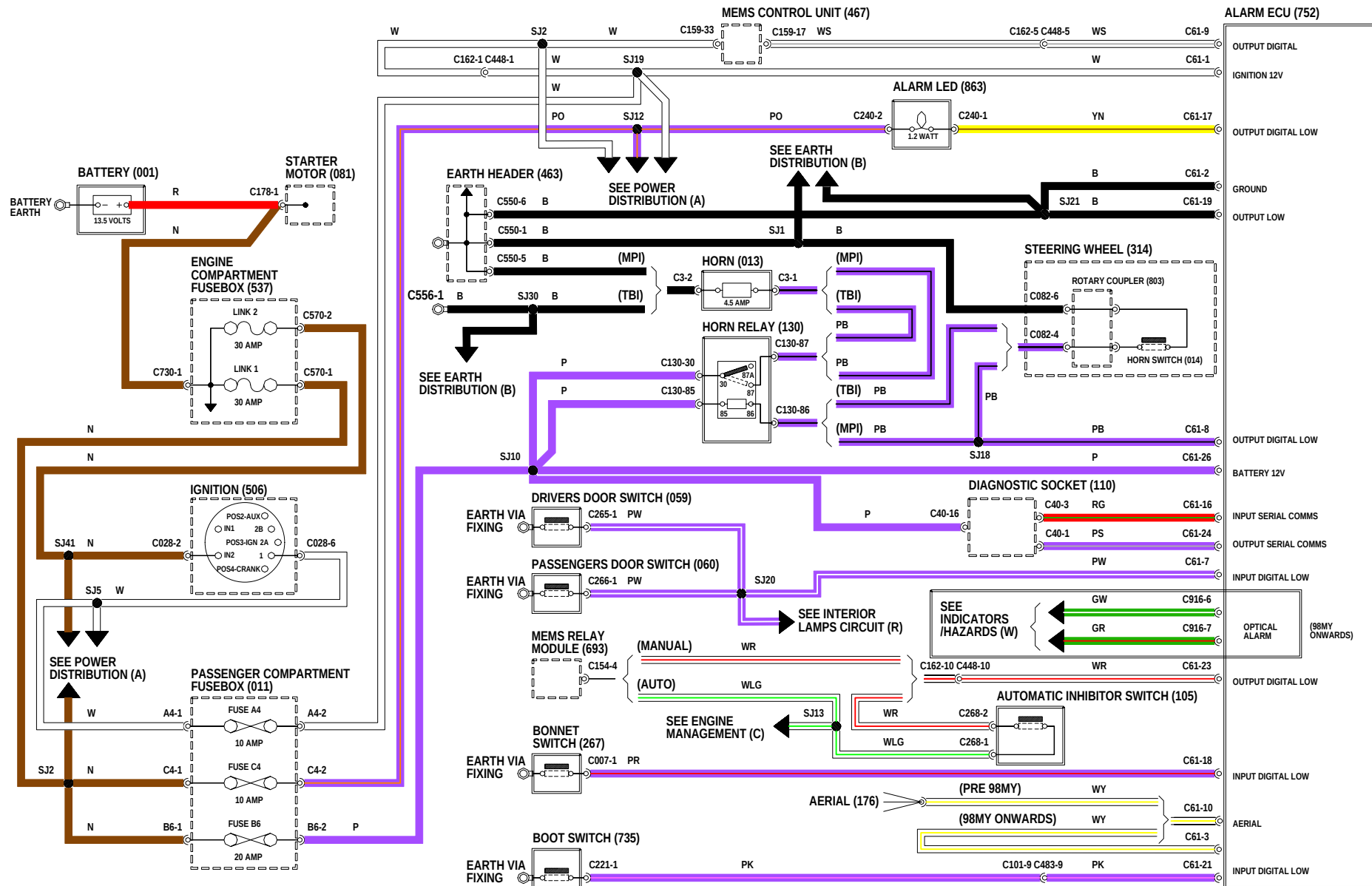
EARTH DISTRIBUTION



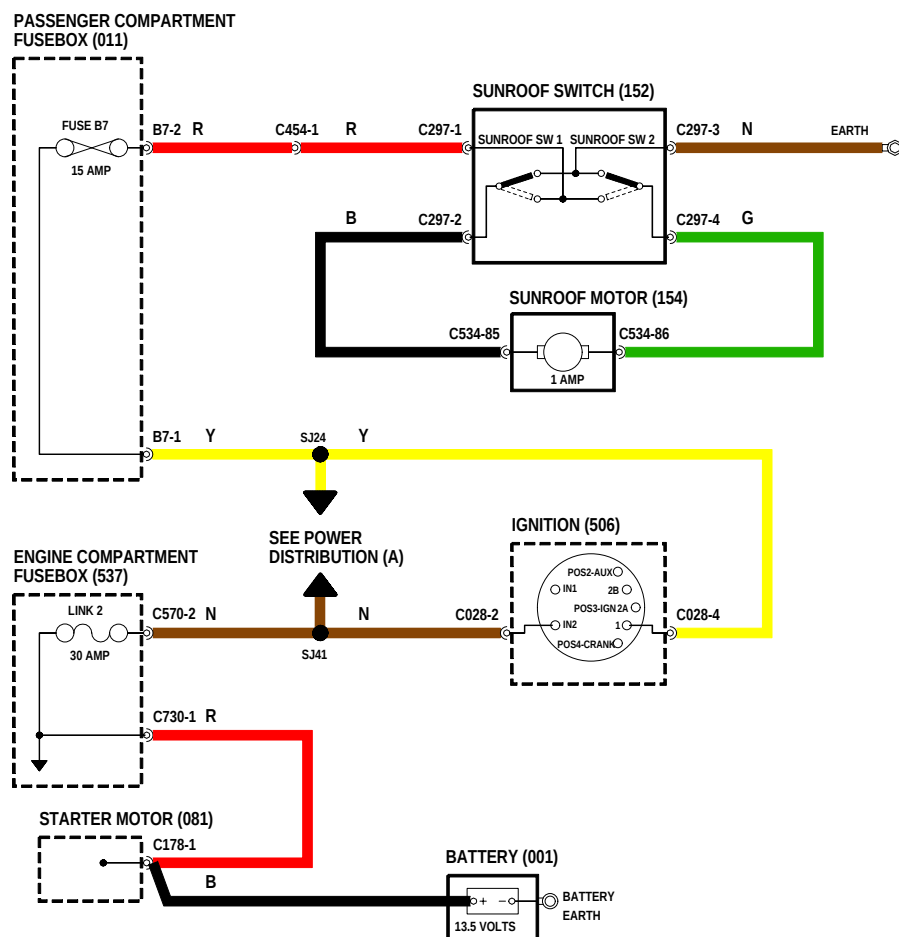
EARTH DISTRIBUTION



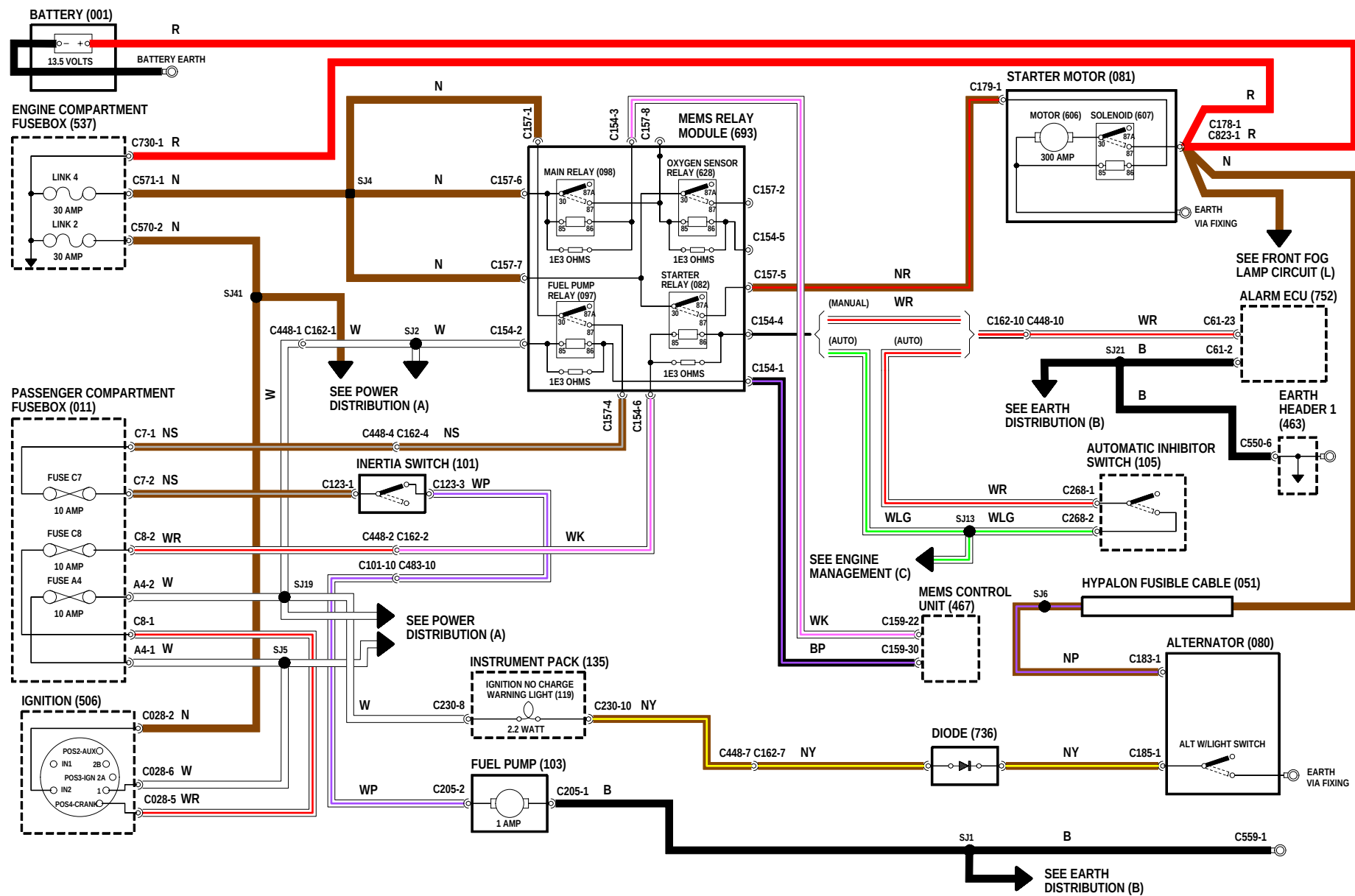
ANTI-THEFT ALARM AND HORN



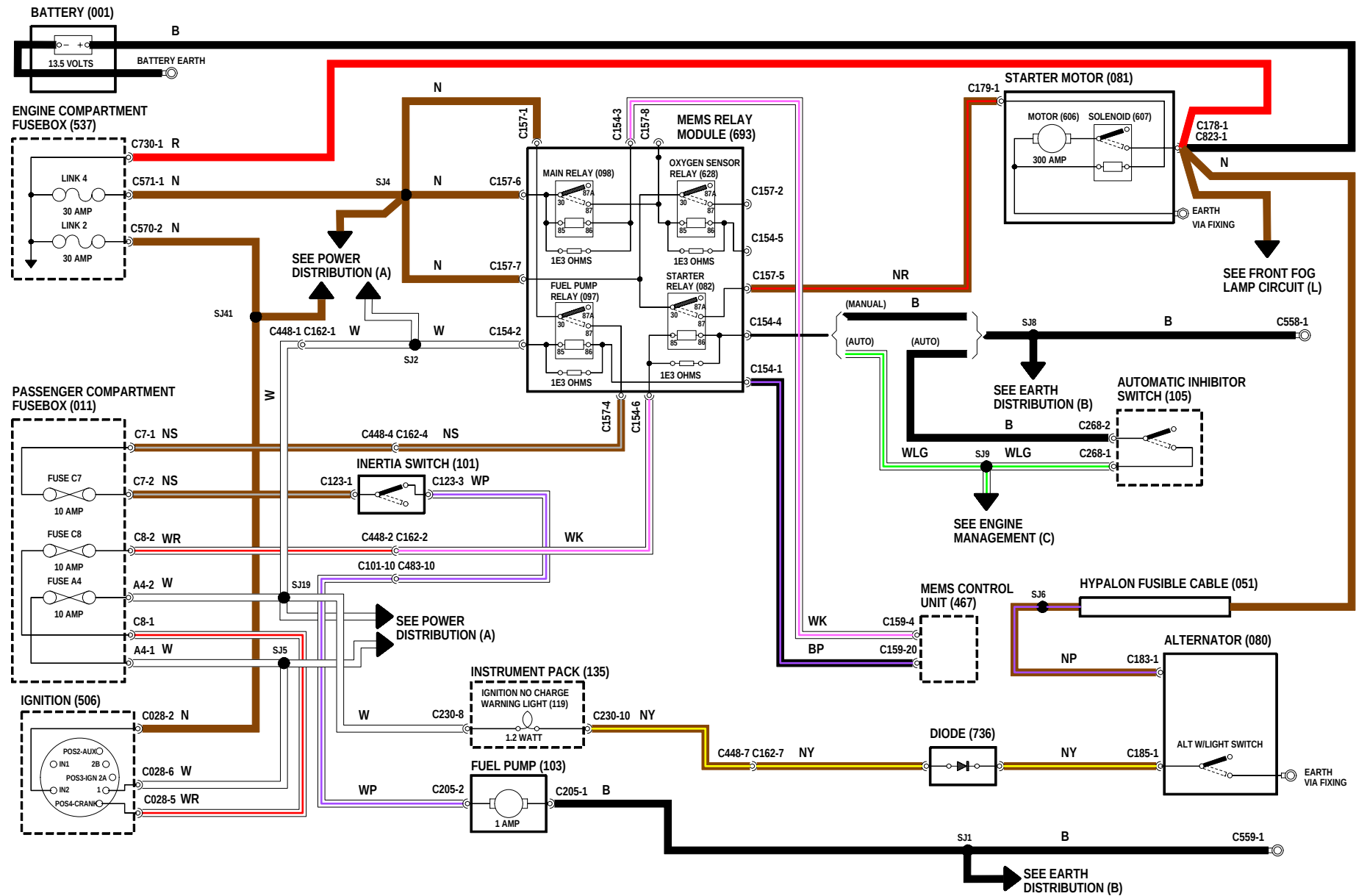
SUNROOF



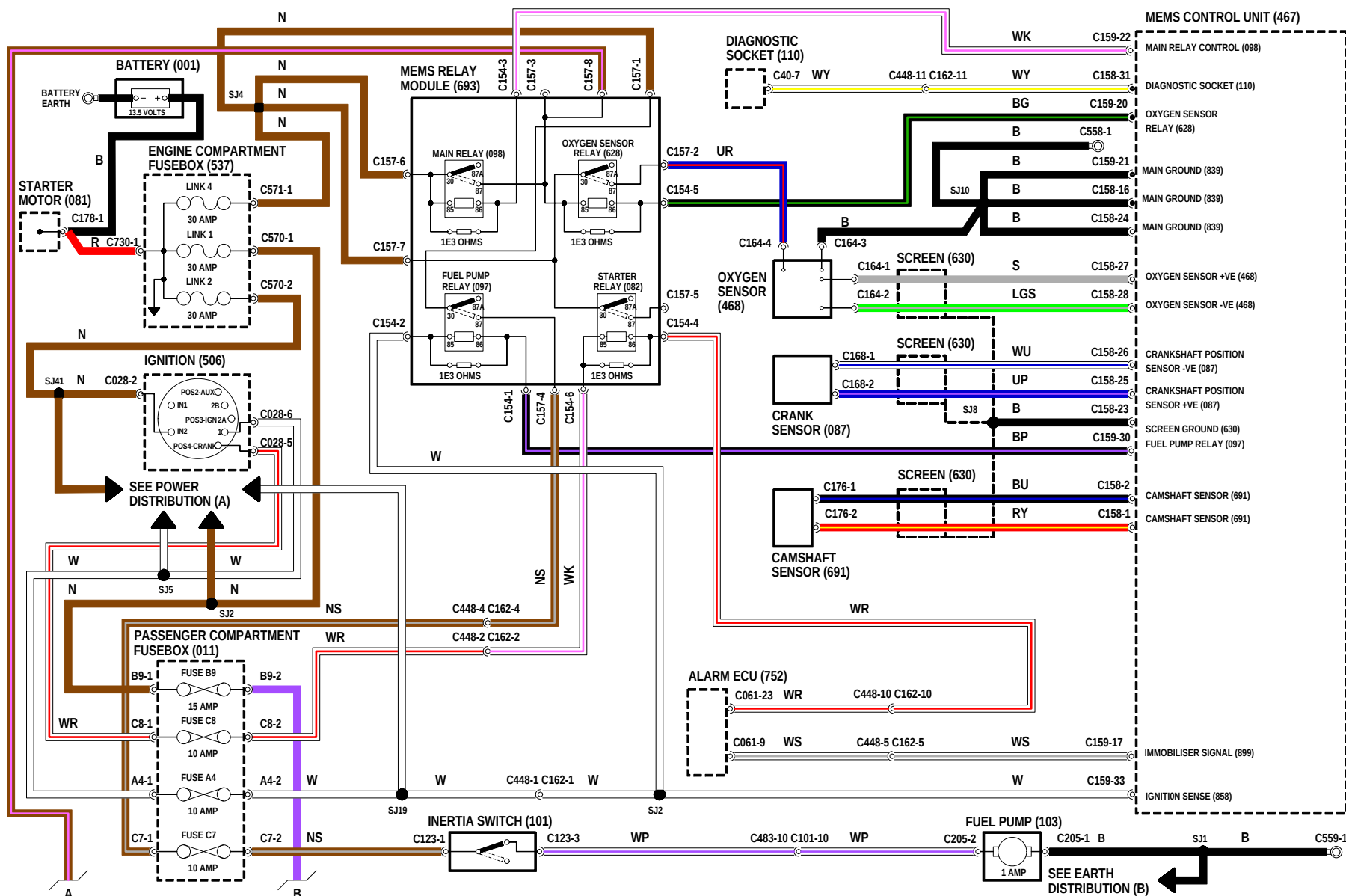
CHARGING AND STARTING MPI



CHARGING AND STARTING SPI (JAPAN)

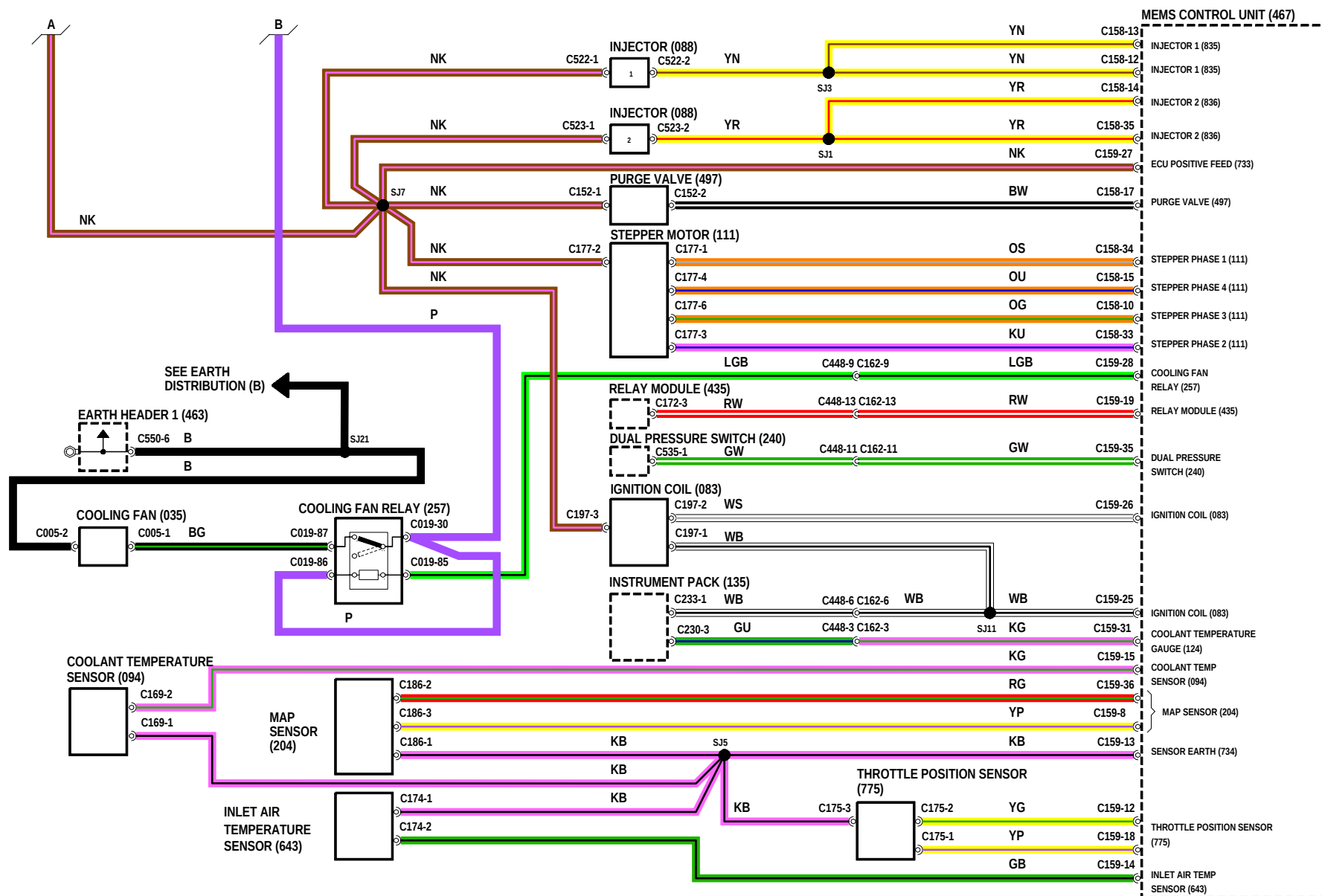


ENGINE MANAGEMENT SYSTEM (MEMS) MPI

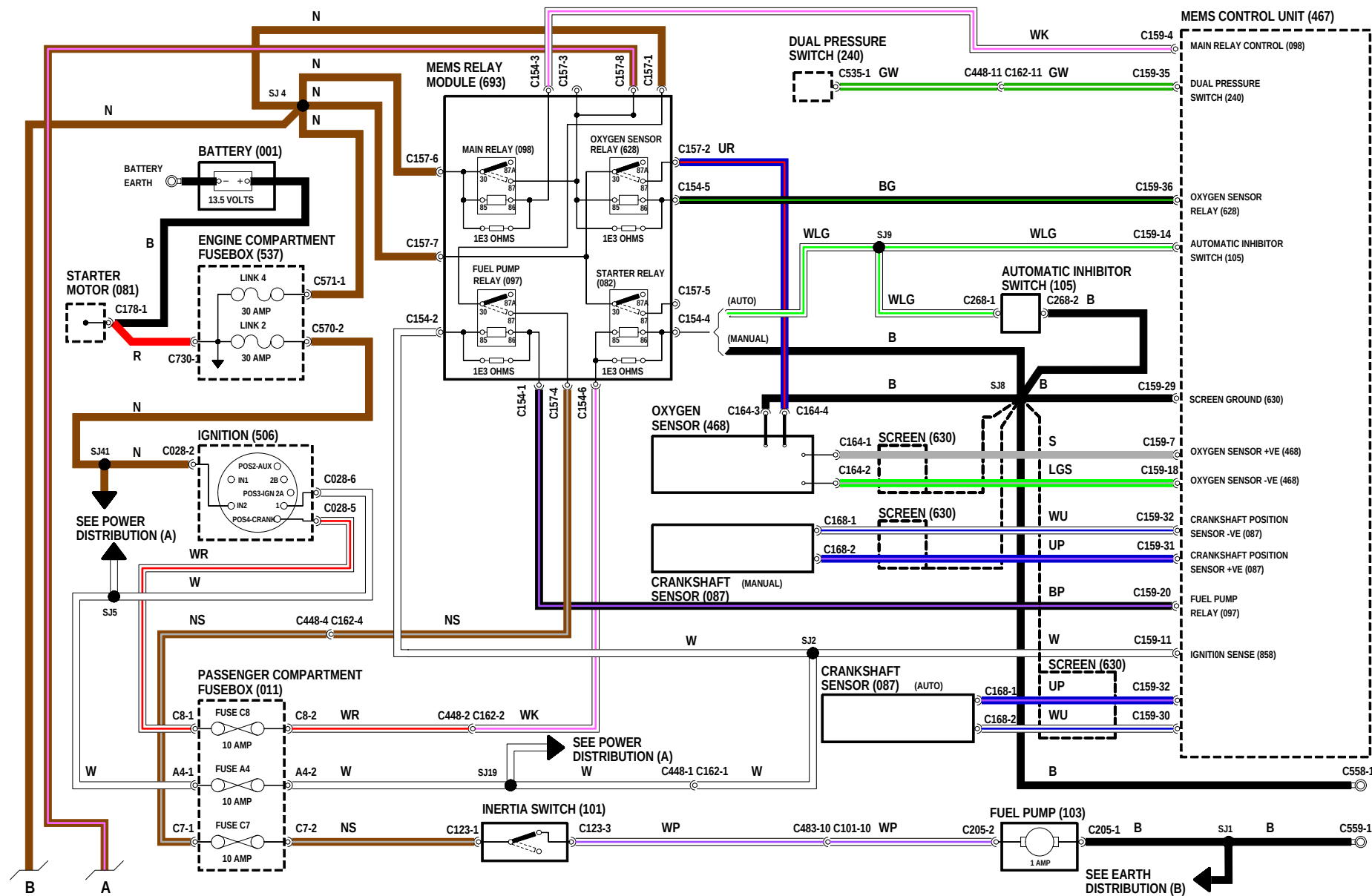


ENGINE MANAGEMENT SYSTEM (MEMS)

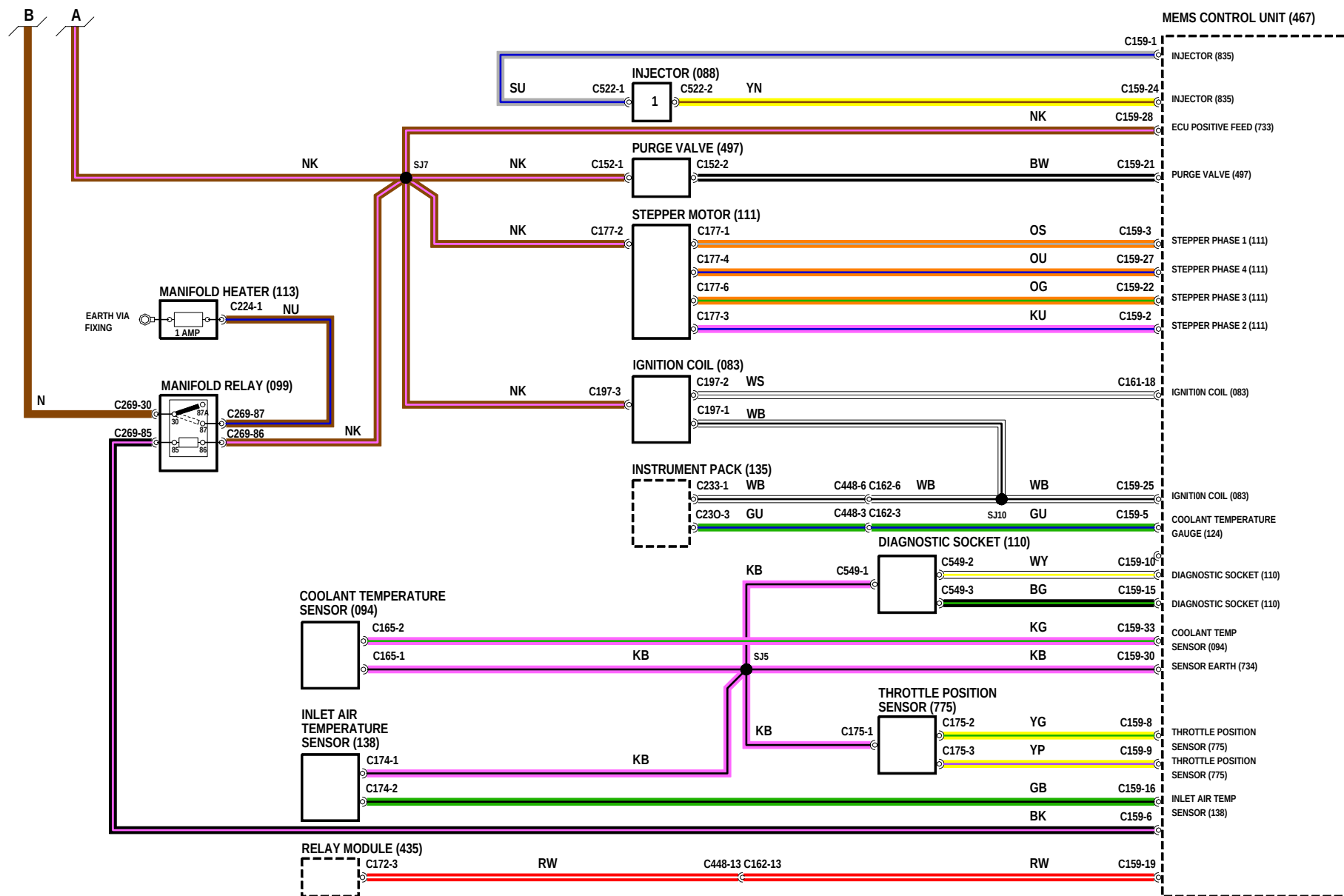
MPI



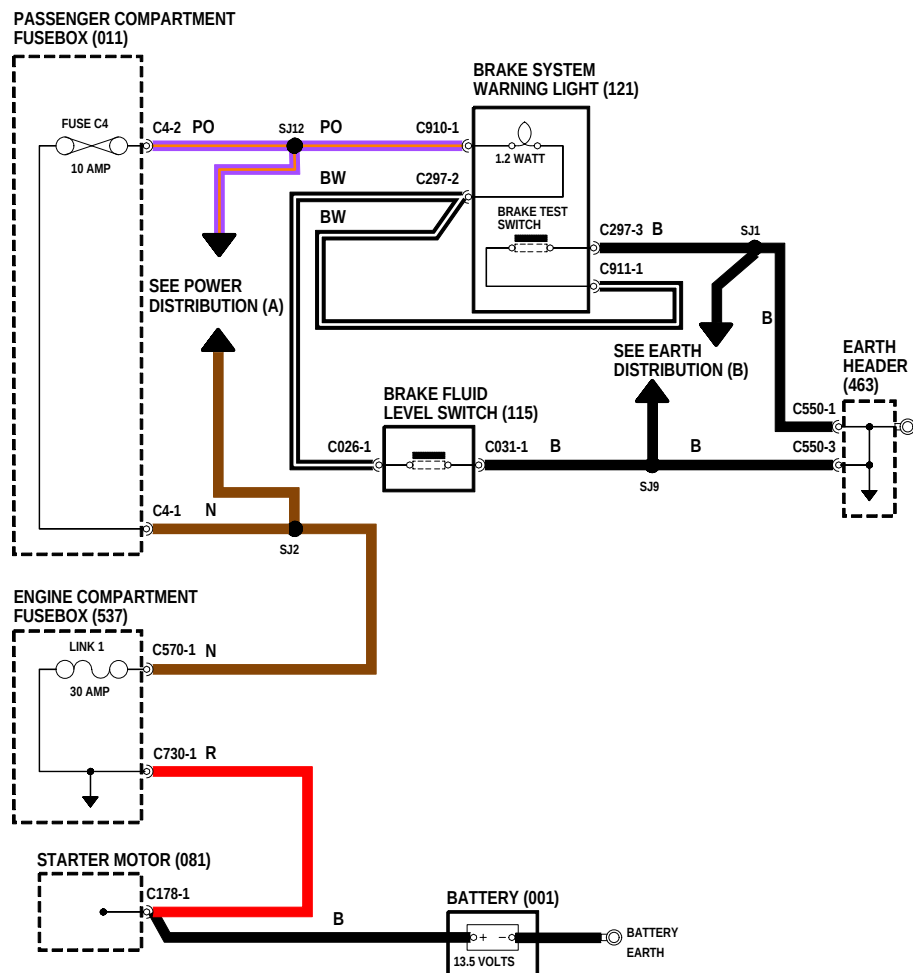
ENGINE MANAGEMENT SYSTEM (MEMS) SPI (JAPAN)



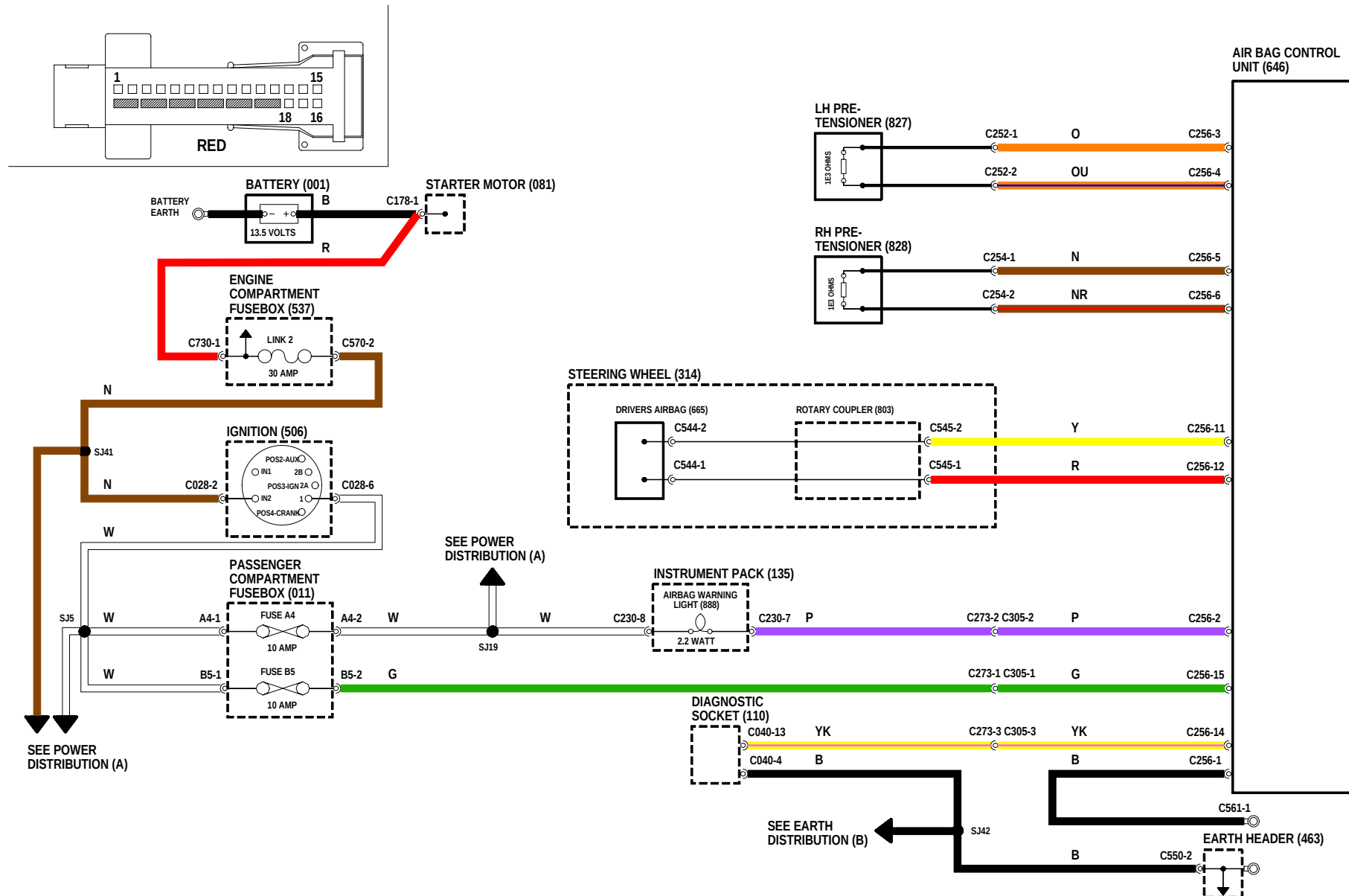
ENGINE MANAGEMENT SYSTEM (MEMS) SPI (JAPAN)



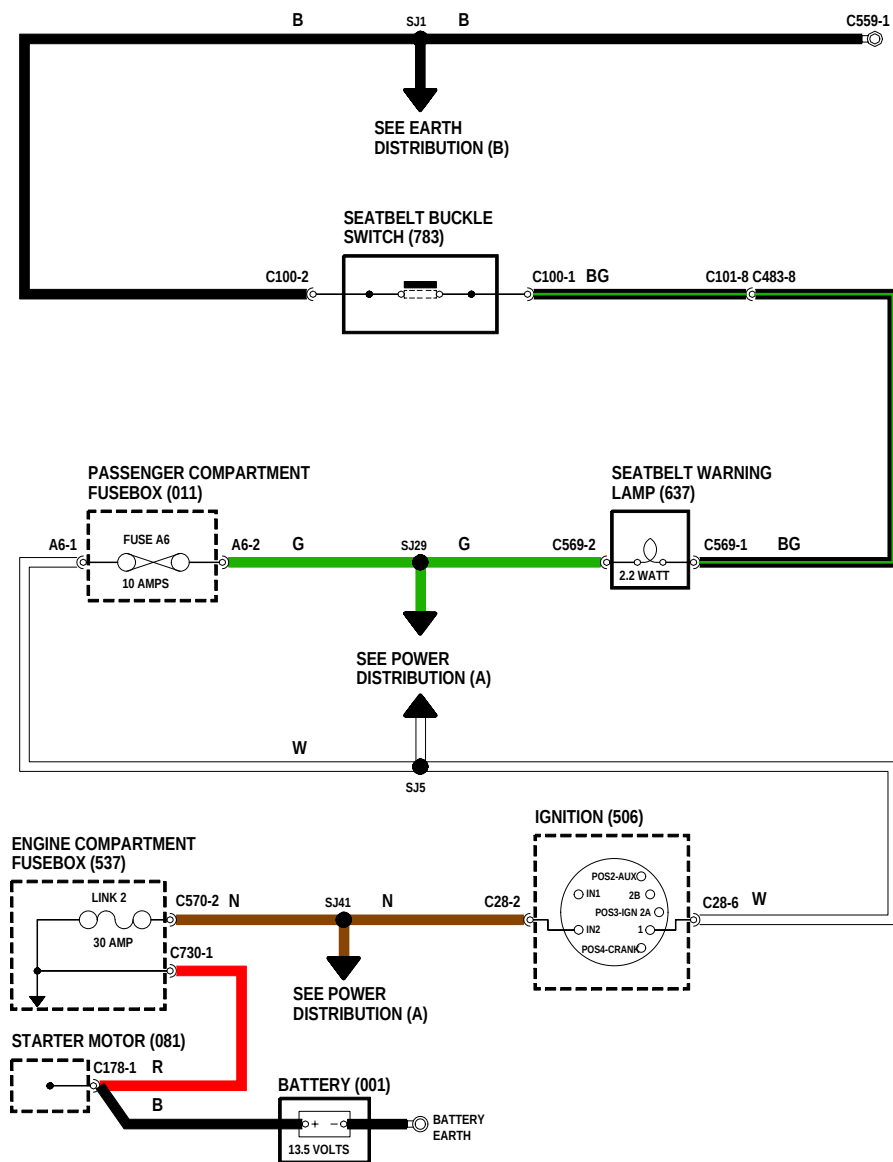
BRAKE FLUID LEVEL WARNING



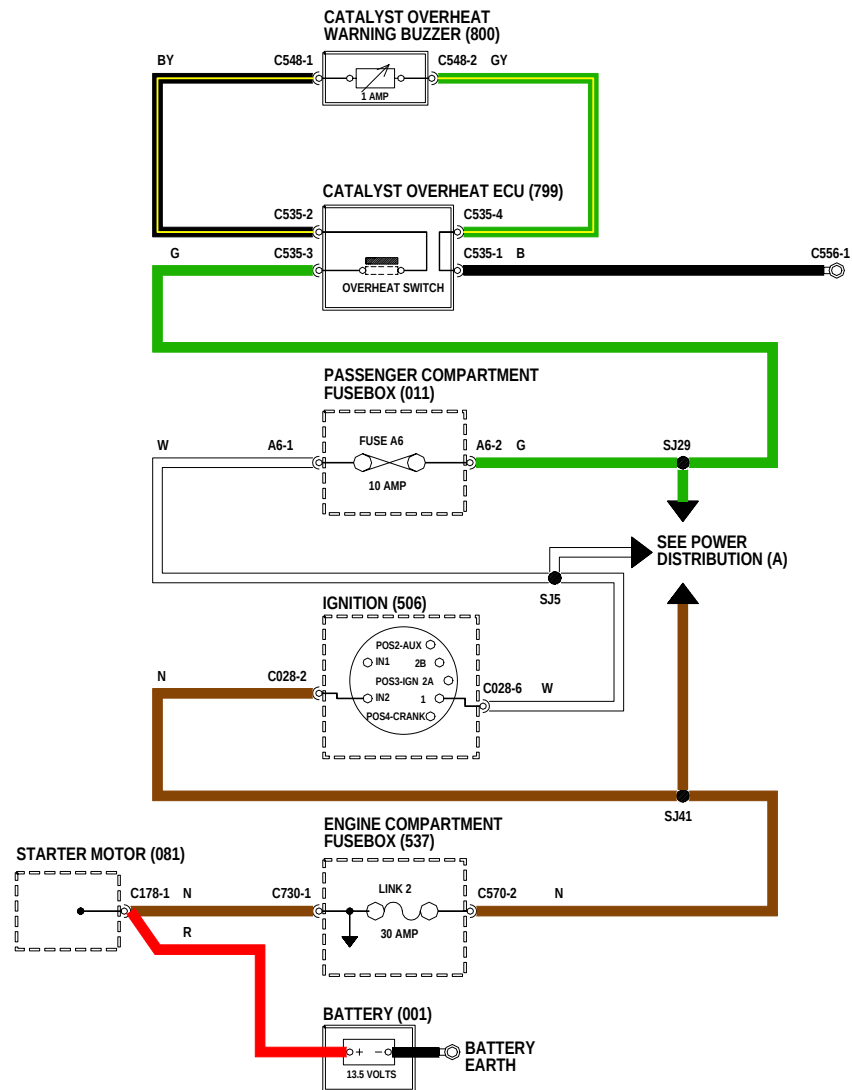
SRS (AIRBAG)



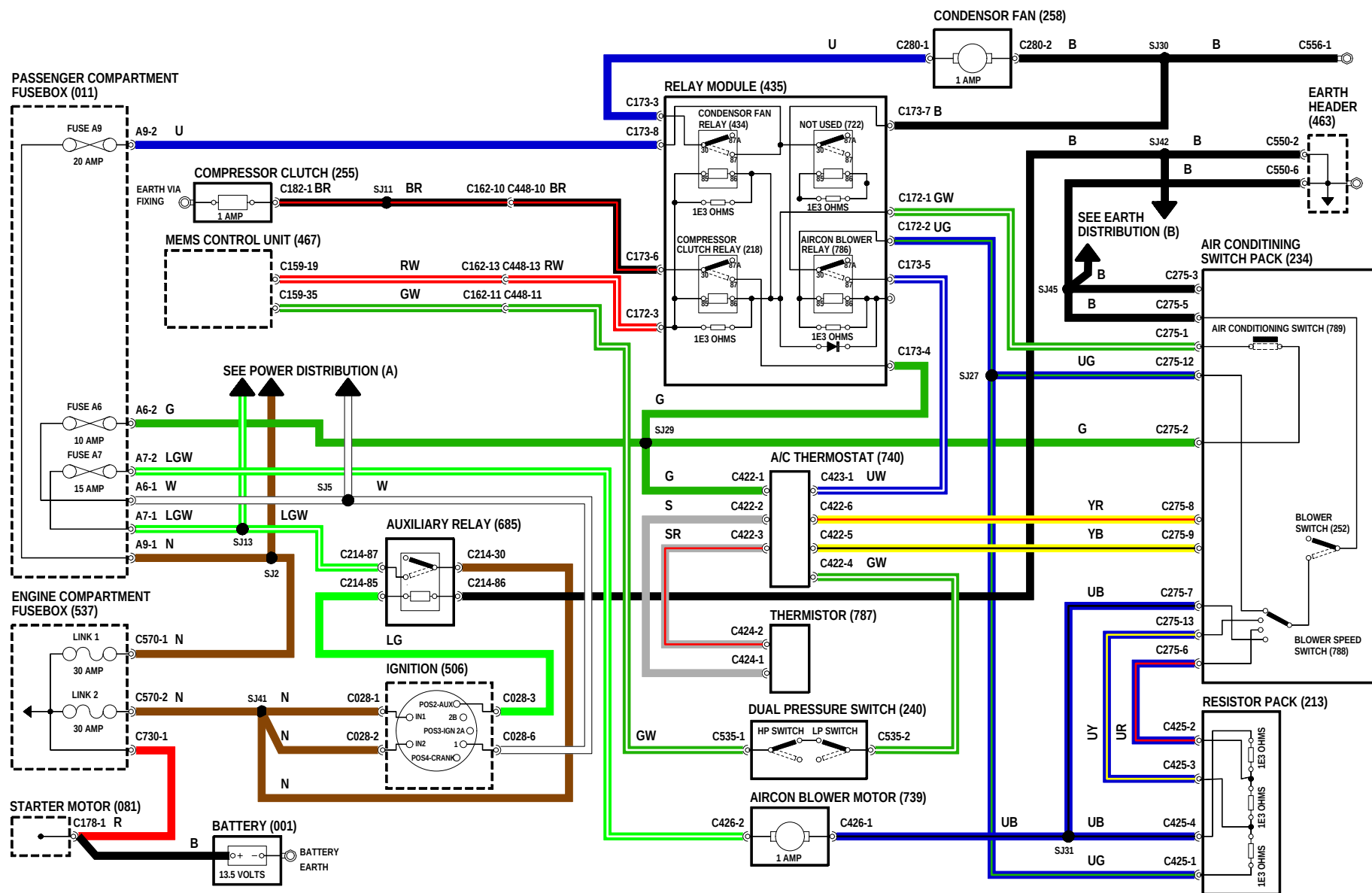
SEATBELT WARNING (JAPAN)



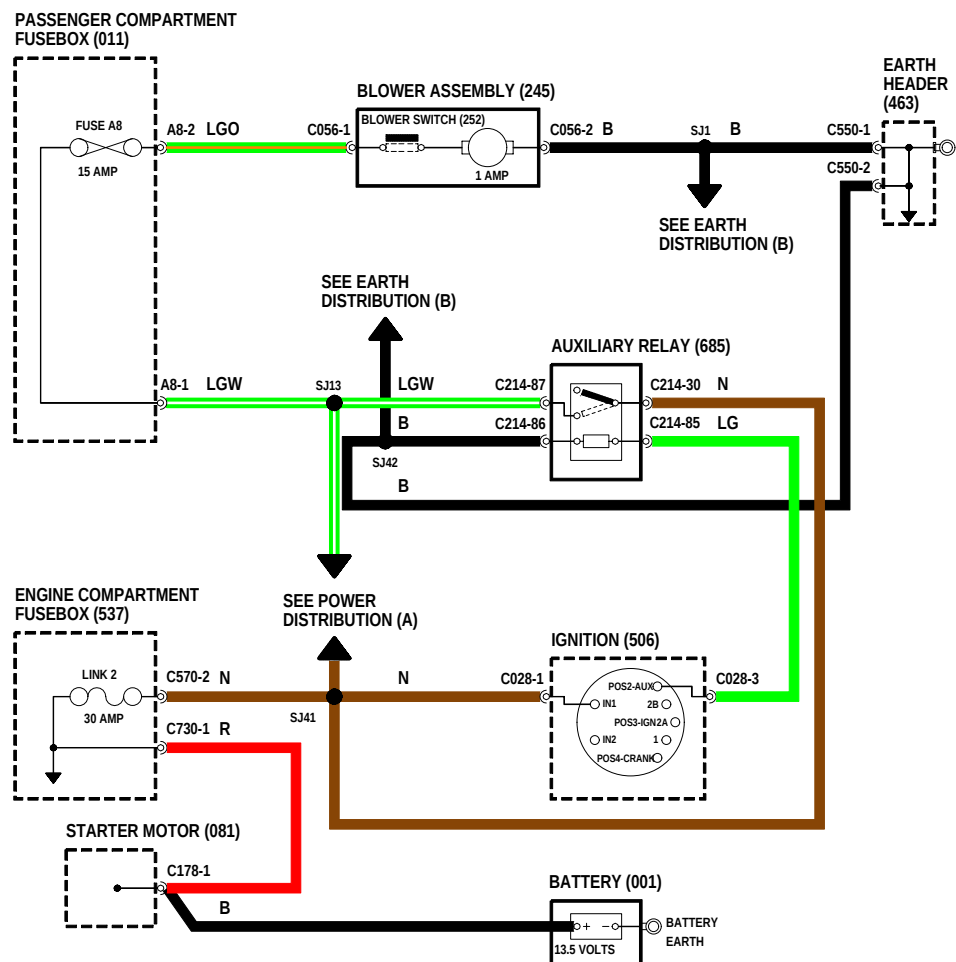
CATALYST OVERHEAT (JAPAN - NOT 1998 MY)



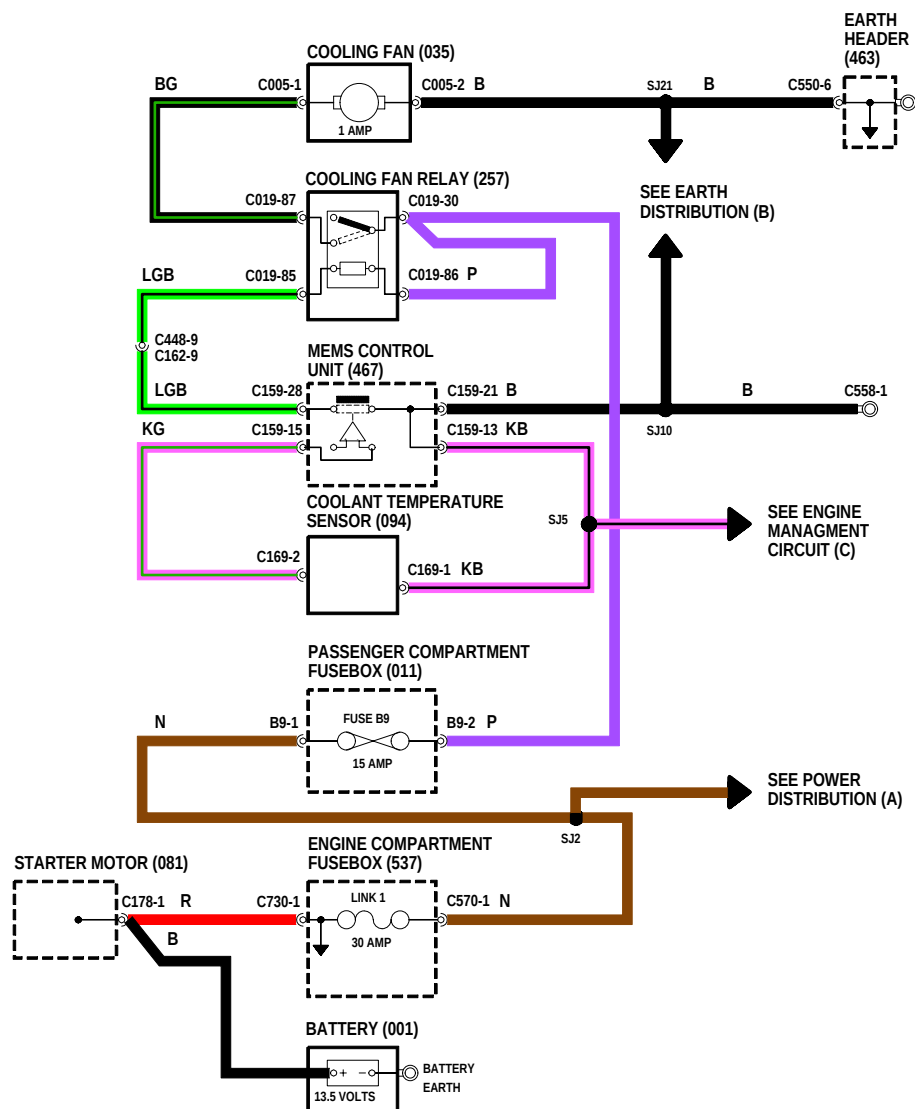
AIR CONDITIONING (JAPAN)



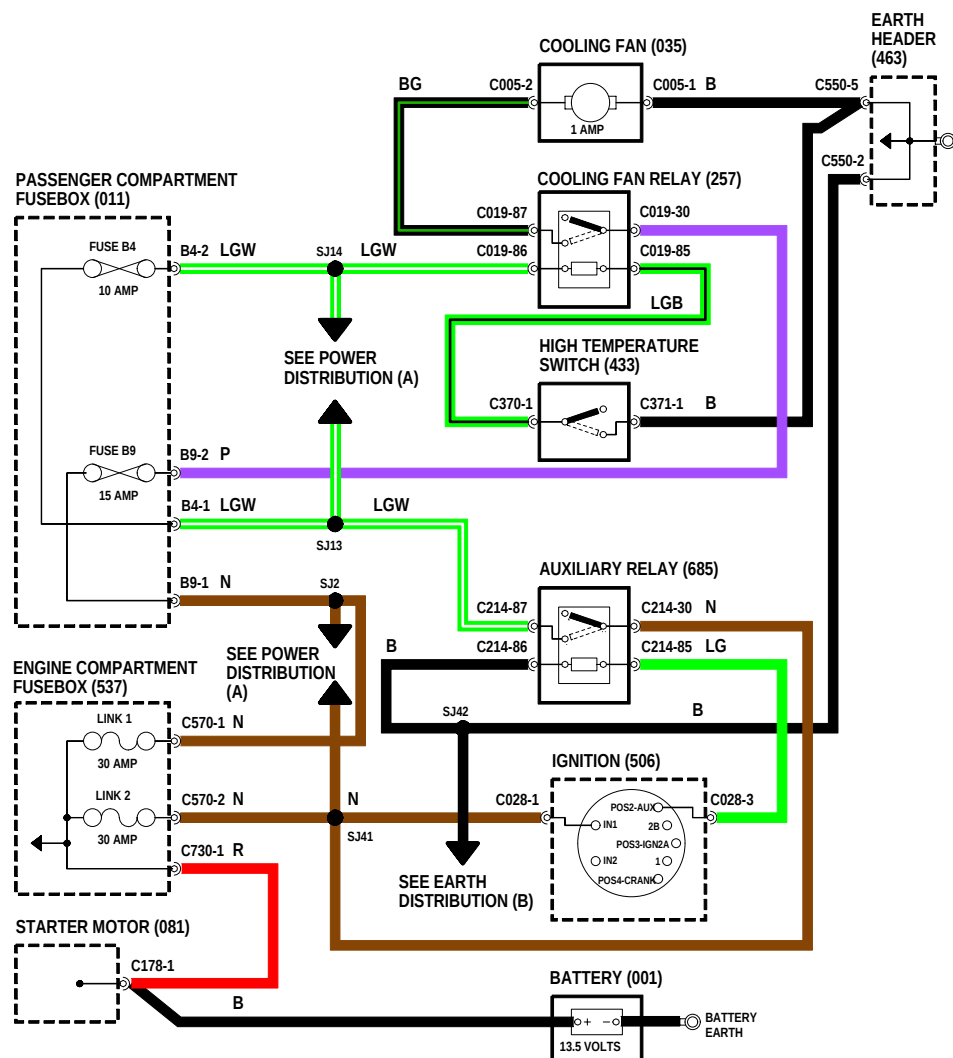
HEATER BLOWER



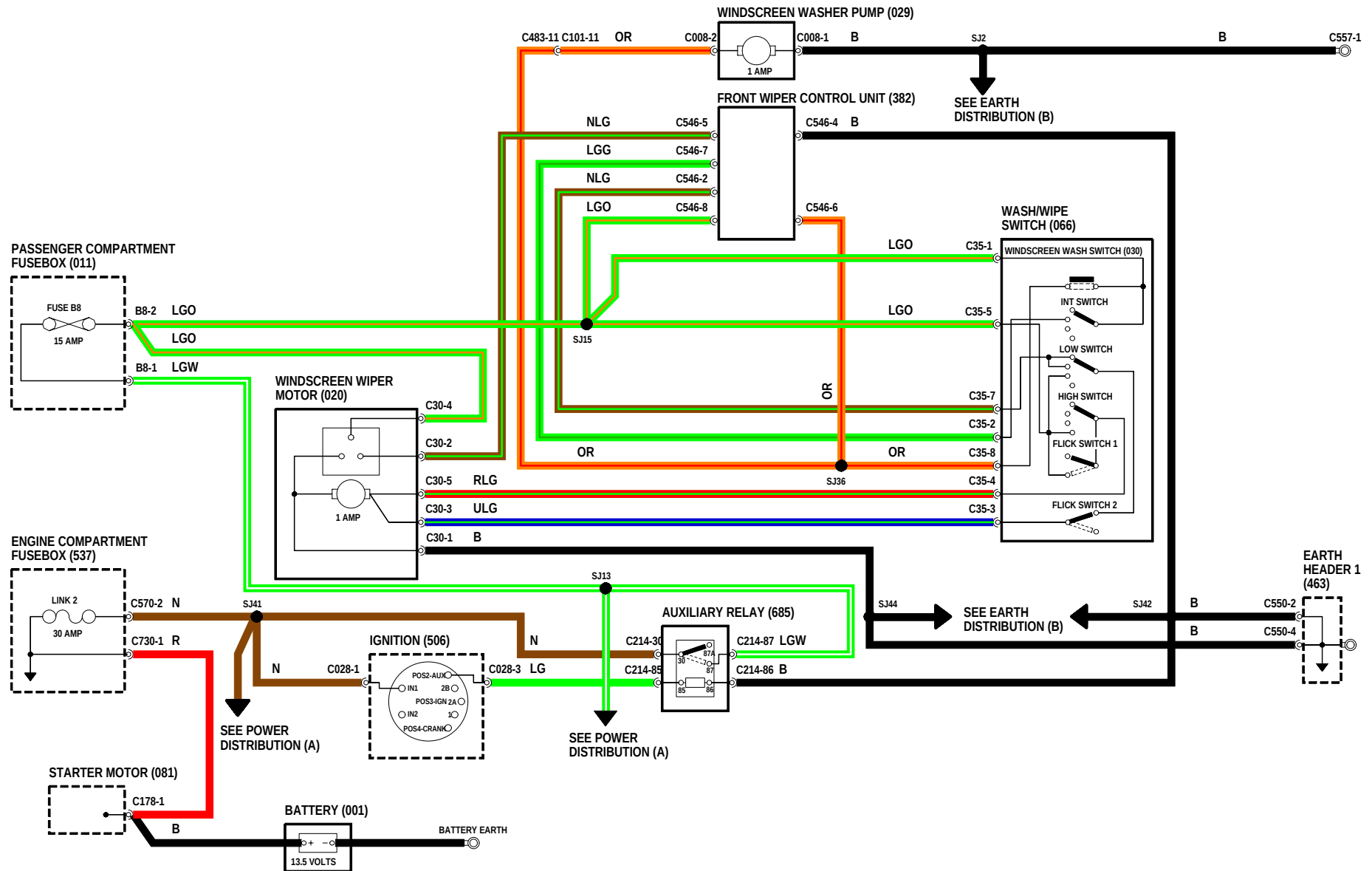
COOLING FAN MPI



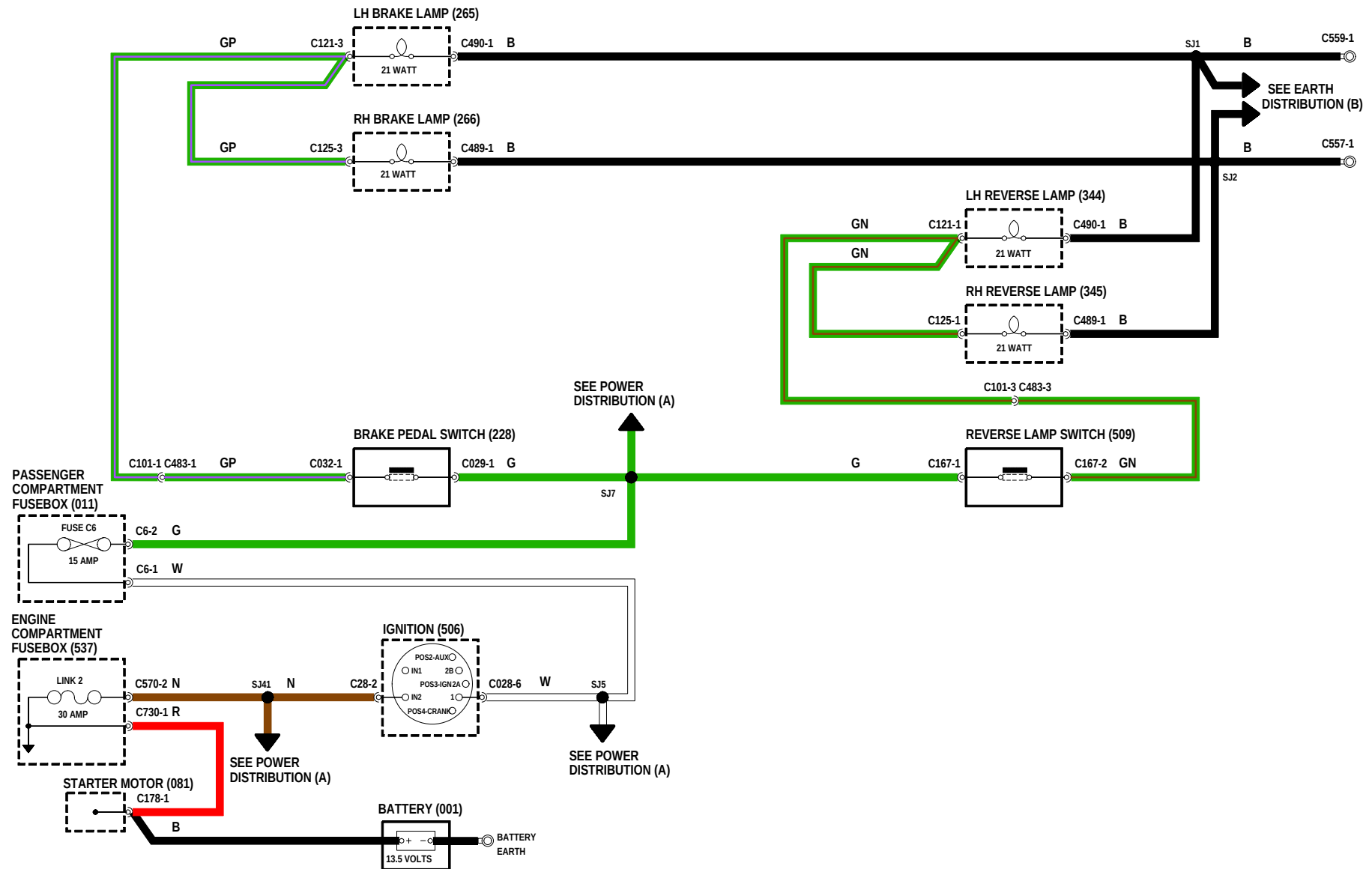
COOLING FAN SPI (JAPAN)



WIPERS AND WASHERS

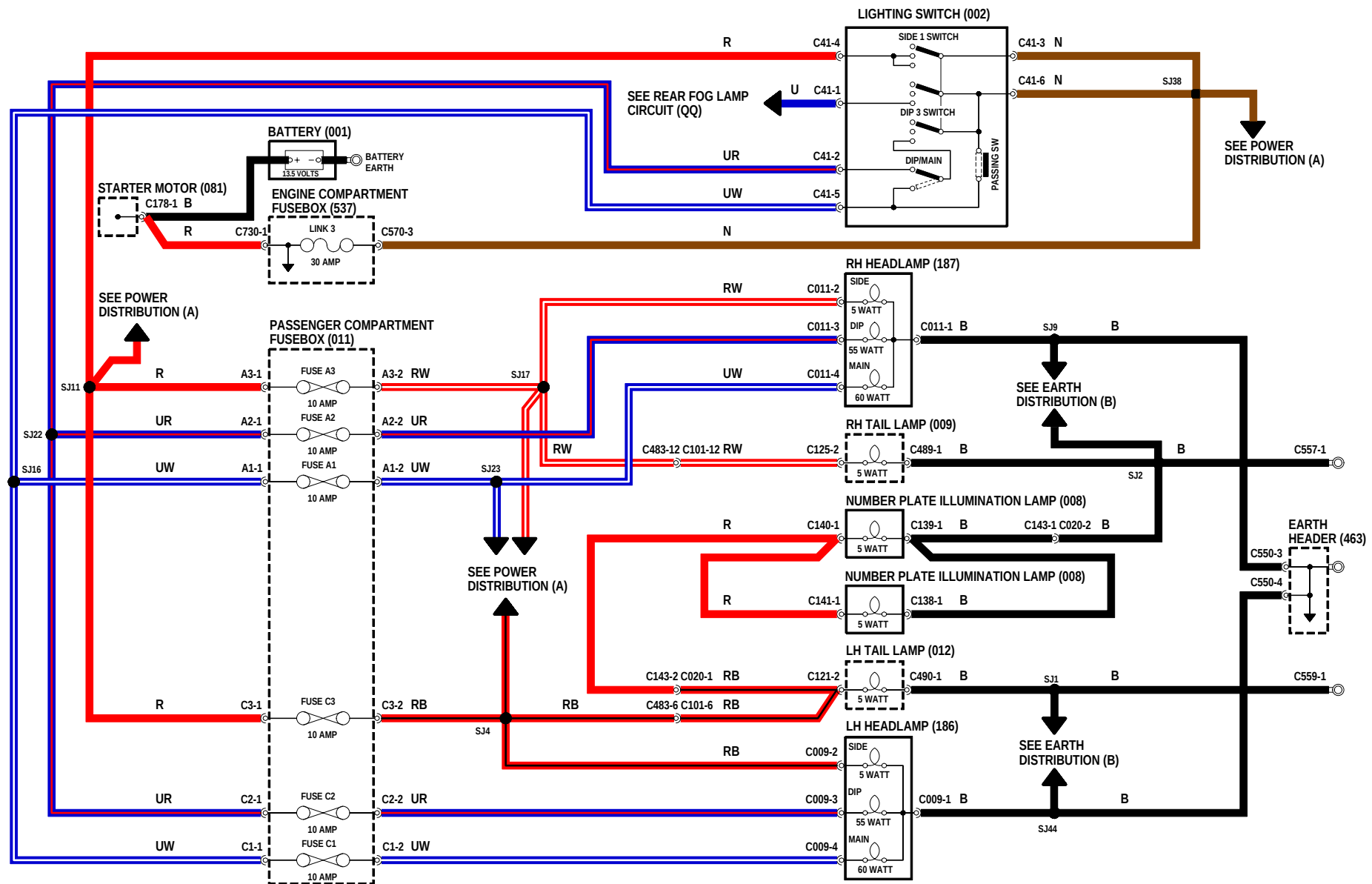


EXTERIOR LAMPS BRAKE/REVERSE LAMPS

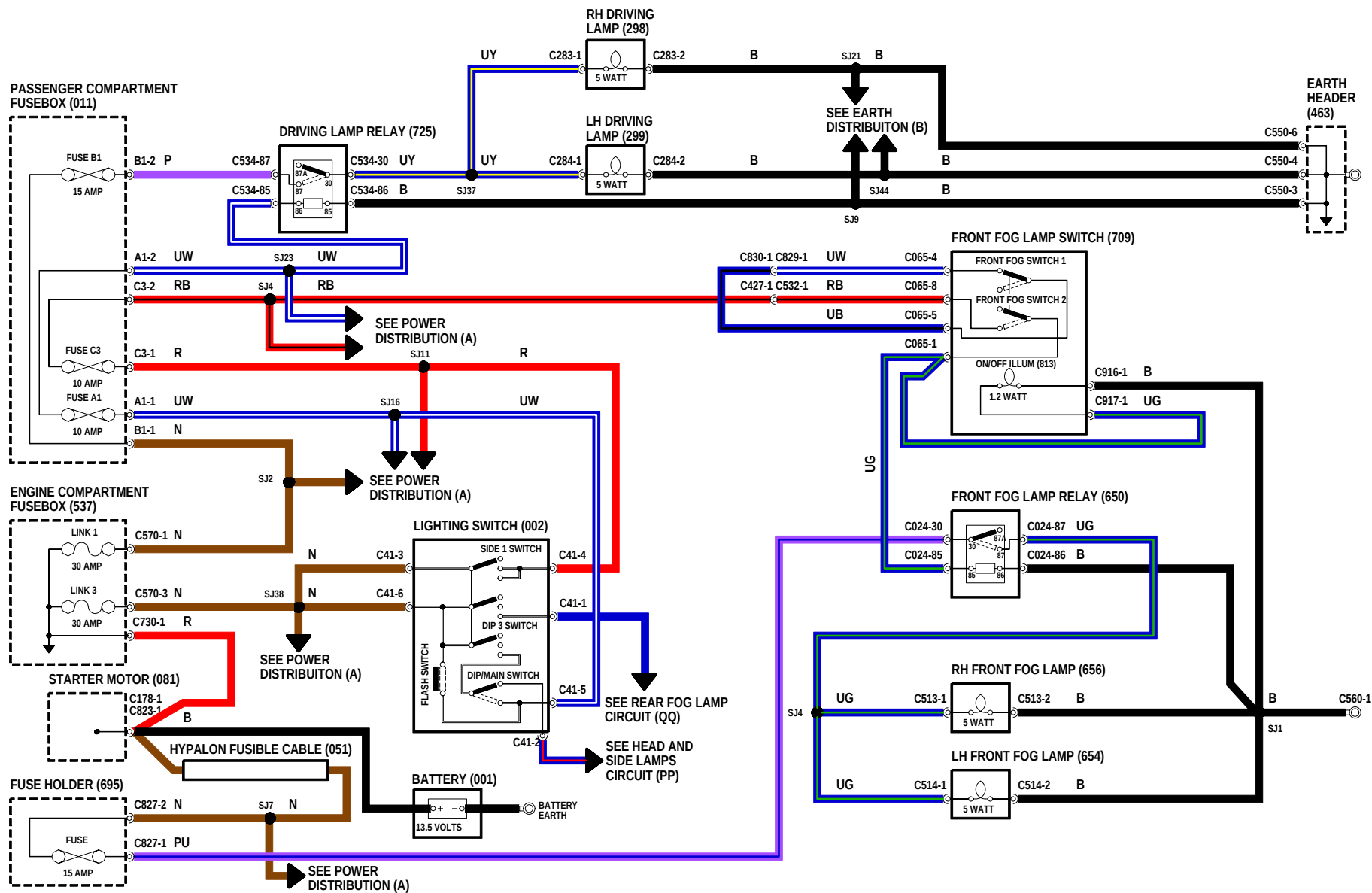


EXTERIOR LAMPS

HEAD, SIDE, TAIL AND NUMBER PLATE LAMPS

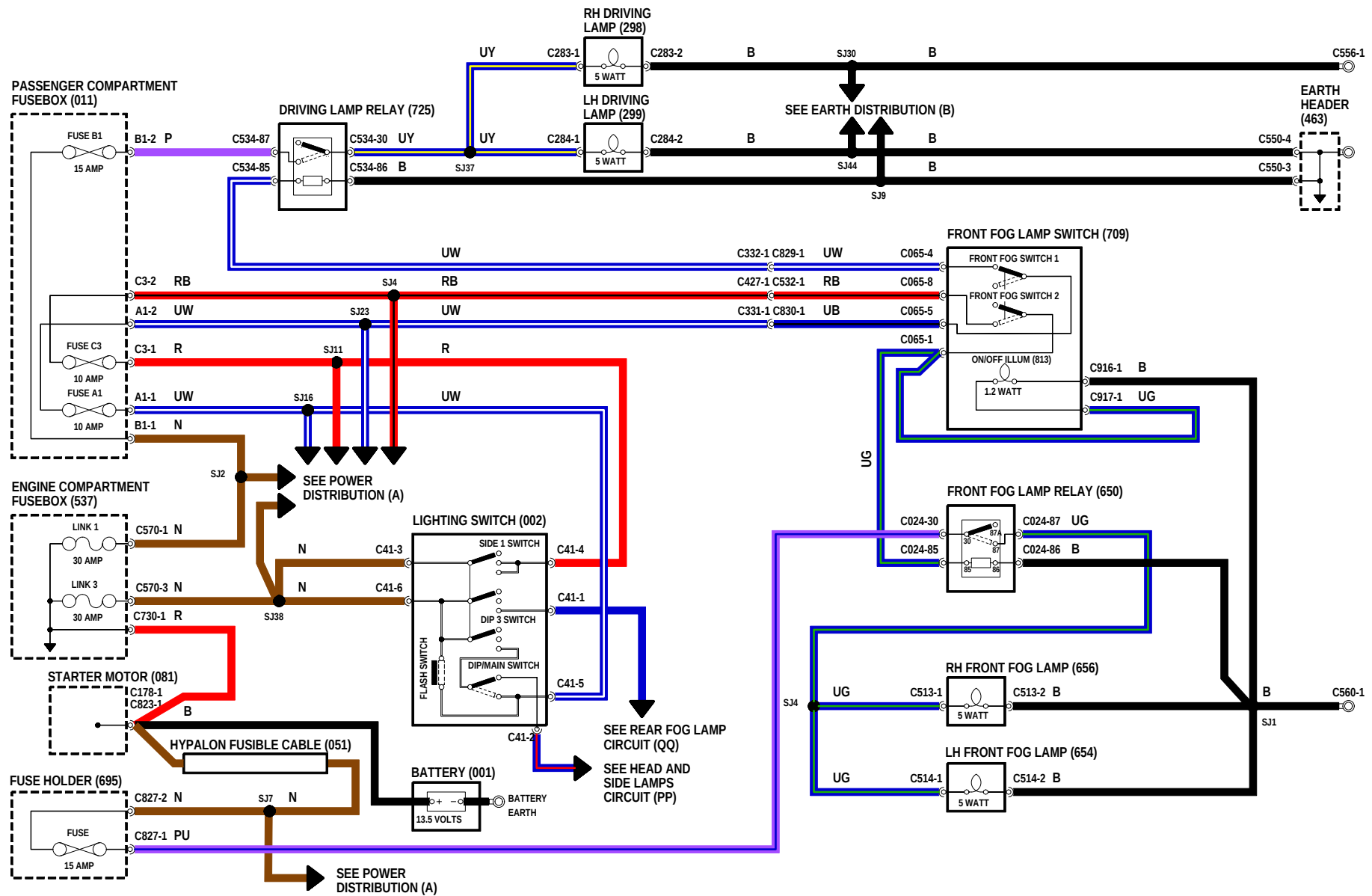


EXTERIOR LAMPS FRONT FOG AND DRIVING LAMPS

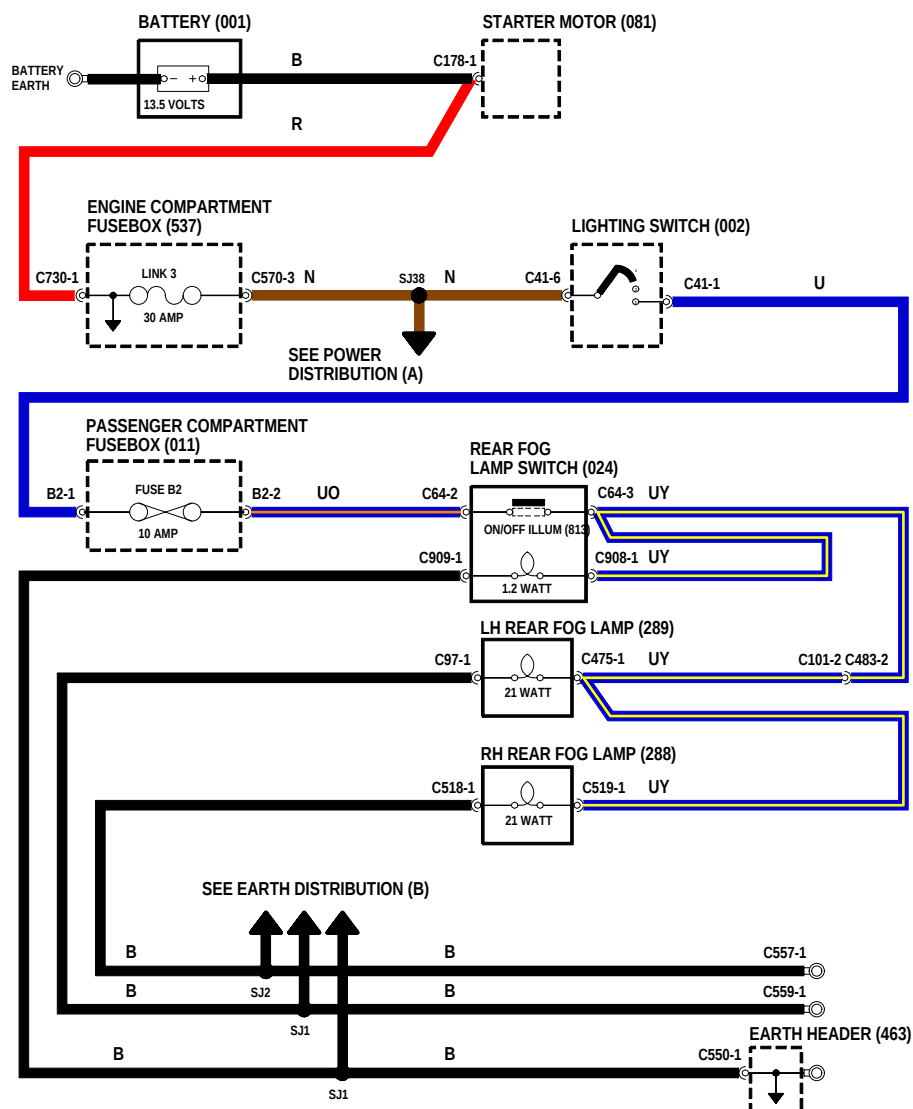


EXTERIOR LAMPS

FRONT FOG AND DRIVING LAMPS (JAPAN)

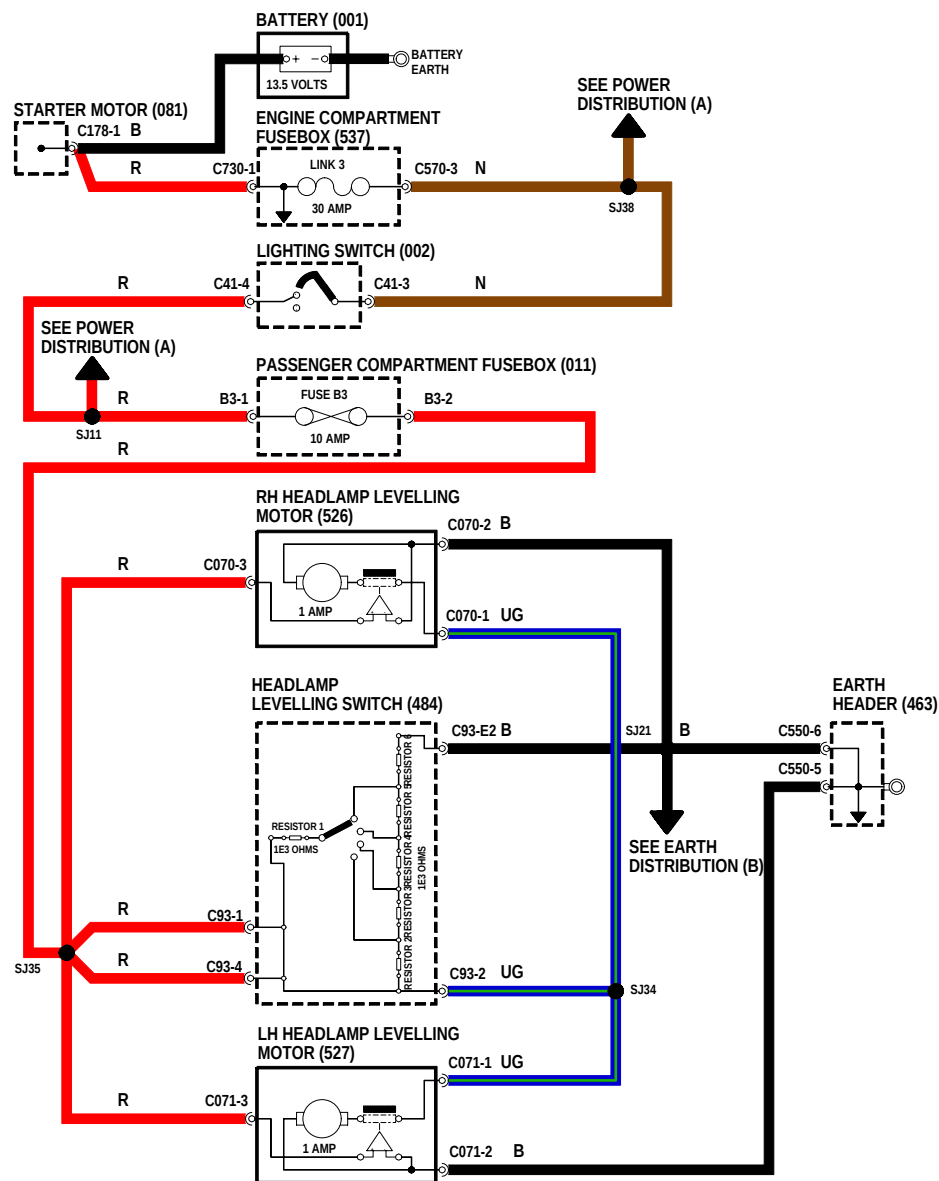


REAR FOG LAMPS

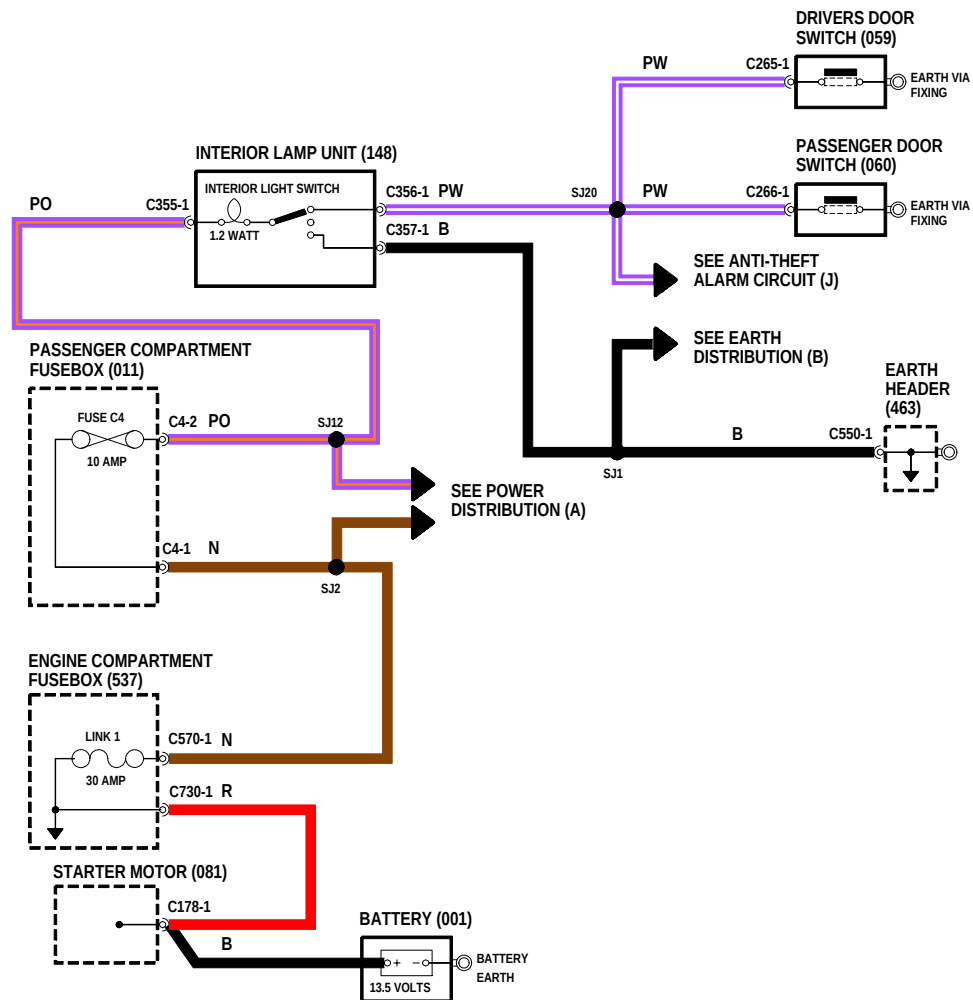


EXTERIOR LAMPS

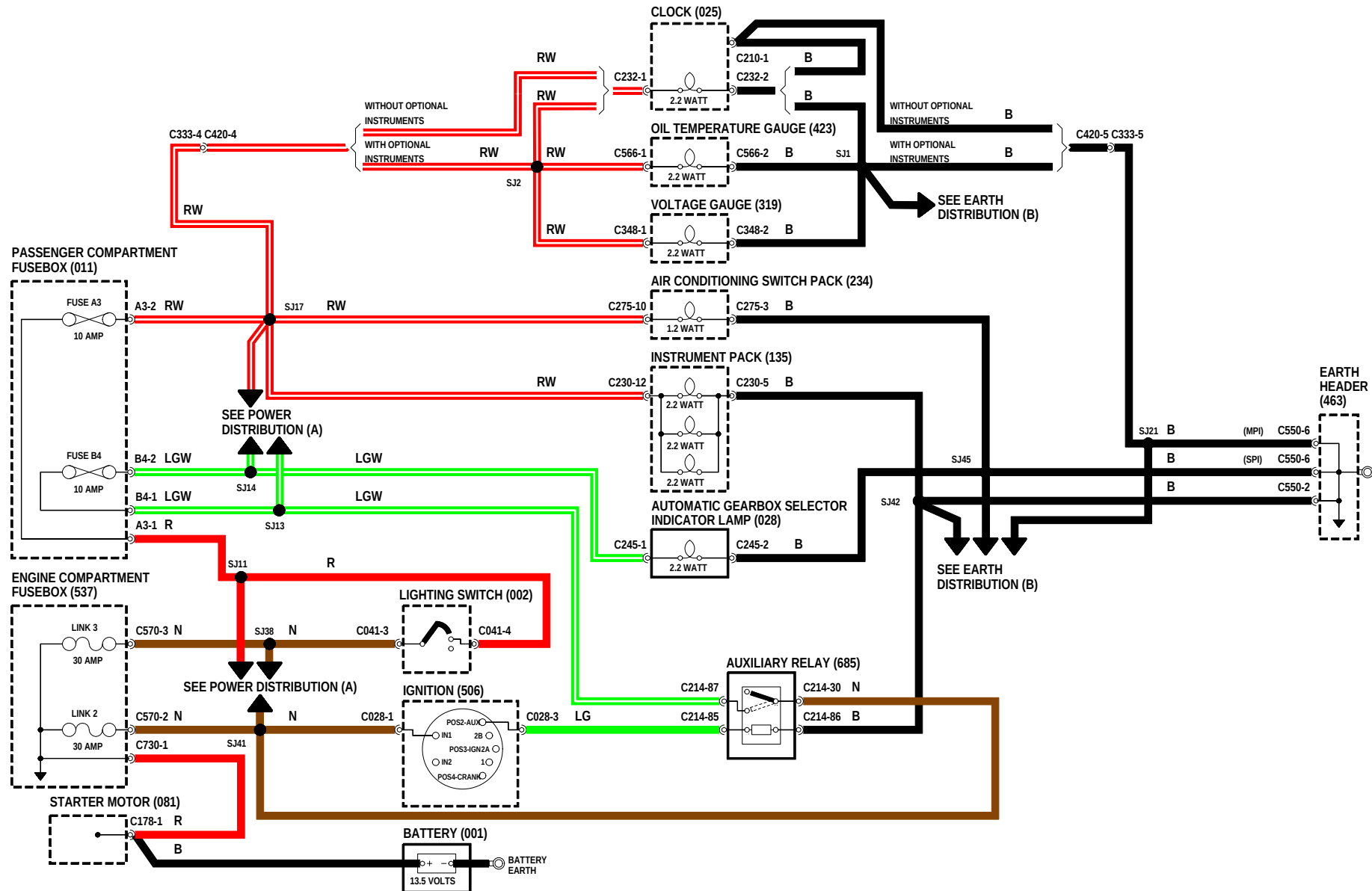
HEADLAMP LEVELLING



INTERIOR LAMPS



INTERIOR ILLUMINATION



IN-CAR ENTERTAINMENT

RADIO CD PLAYER

