

Electrical Circuit Diagrams

*Elektrische
Circuitdiagrammen*

Schémas Électriques

Elektrische Schaltpläne

Schema di Circuiti

*Esquemas de Circuitos
Eléctricos*

*Diagramas dos Circuitos
Eléctricos*





Electrical Circuit Diagrams

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COLOUR CODES**DRAADKLEURCODES****CODICI COLORI DEI CAVI****CODES DES COULEURS DES FILS****CODIGOS DE COLORES DE LOS CABLES****KABELFARBCODES****CÓDIGOS DAS CORES DOS FIOS**

| CODE | COLOUR | CODE | KLEUR | CODE | COULEUR | CODE | FARBE | 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 | PIZARRO (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 |

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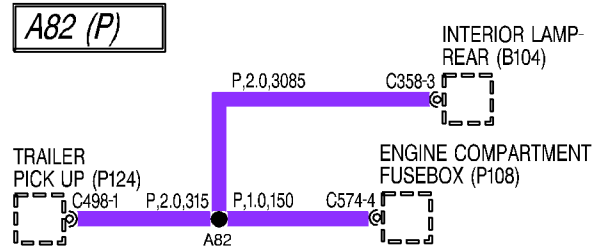
HOW TO USE THE CIRCUIT DIAGRAMS

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

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

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 the fuseboxes.



86M4227A

The fuse box details are followed by independent functionally specific circuits and then a Splices and centre taps section outlining the way in which internal harness splices and centre taps distribute power in the harnesses. This information should be used during diagnosis of electrical faults to check for symptoms in associated circuits and narrow down the search area.

Earth Distribution

The ground distribution section comprises a number of Headers and Splices tables. These are used in a similar manner to those in Power Distribution; to narrow the search area by checking for fault symptoms in associated circuits.

Splices and centre taps

Header and splice tables present the joint(s) and wiring up to the first component. Splices are identified by a number with an alphabetical prefix and the wire colour.

The splice information shown on individual system circuits is not complete. Always refer to the splices circuit for complete information on each splice.

Wire attributes

Additional information (separated by a ',') is shown alongside the wire colour:

Wire gauge - the cross-sectional area of the wire in square millimetres. This is included to help you select the correct wire during harness repair.

Some wires do not have a gauge shown, these wires are of unique construction and will have a three or four letter code printed after the colour code, eg MAB. The code identifies the type of wire for manufacturing purposes. Usually, only the first two characters have significance in service, but in some instances the third character also becomes significant, see table.

Wire type

The following table list the wire type codes together with an explanation of their meaning.

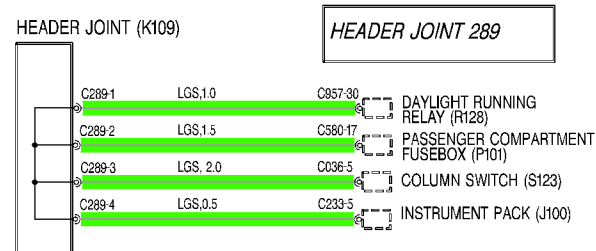
| Code | Description |
|----------------------------------|---|
| D | Single core DIN wire |
| F | Single core flexible wire |
| H | Single core high temperature wire |
| SA* | Single core resistive wire (0.9 ohms/m) |
| SB*, SC*, SD* | Single core dual extruded wire |
| SE*, SF* | Single core fusible wire |
| MAC, MAD, MAE, MAF, MAG, MAH | Coaxial screened wire |
| MB*, MO*, MAK | Single core screened wire |
| MC*, MI*, MP*, MQ*, MAB, MAP | Twin core screened wire |
| MD*, MJ*, MAM | Twin core ABS sensor wire |
| ME*, TA*, TB*, MM*, MN*, MU*,MAI | Twisted pair of wires |
| MF* | Heated oxygen sensor (HO2S) screened wire |
| MG* | Twin core twisted, screened wire |
| MH | four core twisted, screened wire |
| MK* | Three core SRS sensor wire |
| ML*, MAA, MAR | Four core screened wire |
| MR* | Six core screened, flexible wire |
| MS* | Four core screened, flexible wire |
| MT* | Single core screened, flexible wire |
| MV* | Twin core flat wire |
| MW* | Three core round wire |
| MX*, MY* | Seven core round wire |
| MZ* | Three core screened, flexible wire |
| MAJ | Twin core round cable |
| MAQ, MAU | Three core screened wire |
| MAS | Single core, double sheath wire |
| MAT | Double core, double sheath wire |
| MAL | SRS wire |
| MAN | Twin core braided, screened wire |

HOW TO USE THE CIRCUIT DIAGRAMS

Wire length (Power & Earth Distribution only)

The length of the wire in millimetres. This can be used to locate internal harness splices; look for the shortest wire between the joint and connector. For example, it can be seen that C574-4 is 150mm from joint A82.

Connectors



86M4228A

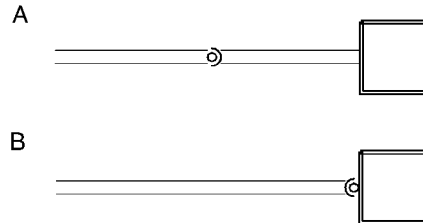
Header joints are identified by their corresponding connector number with a numbered suffix to indicate the pin-out detail of the wire, i.e. C289-1 identifies connector 289, pin number 1. Wire insulation colour is identified in the normal way. Where wires have a predominant colour with a secondary colour stripe, the main colour is identified first, i.e. LGS - Light Green with a Slate stripe.

Line Types



86M4229A

This means the wire connects to another circuit.



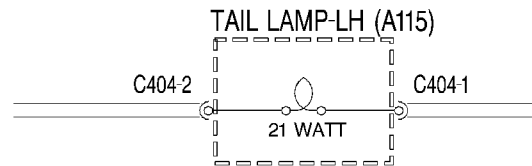
86M4230A

The cup and ball symbol indicates the male and female halves of connector.

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

B. Connector plugs directly into component.

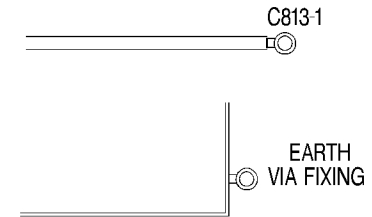
Components



86M4231A

The name or description of the component is shown. A dotted outline indicates that the component is not shown in its entirety.

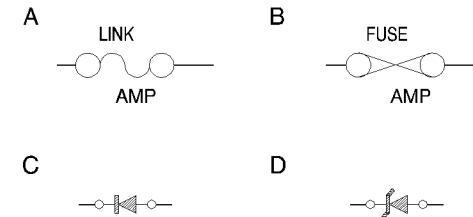
Earth points



86M4232A

Earth points are identified with an eyelet symbol and a connector number, except where components are grounded through their fixings, when only the eyelet is shown.

Fuses and Diodes

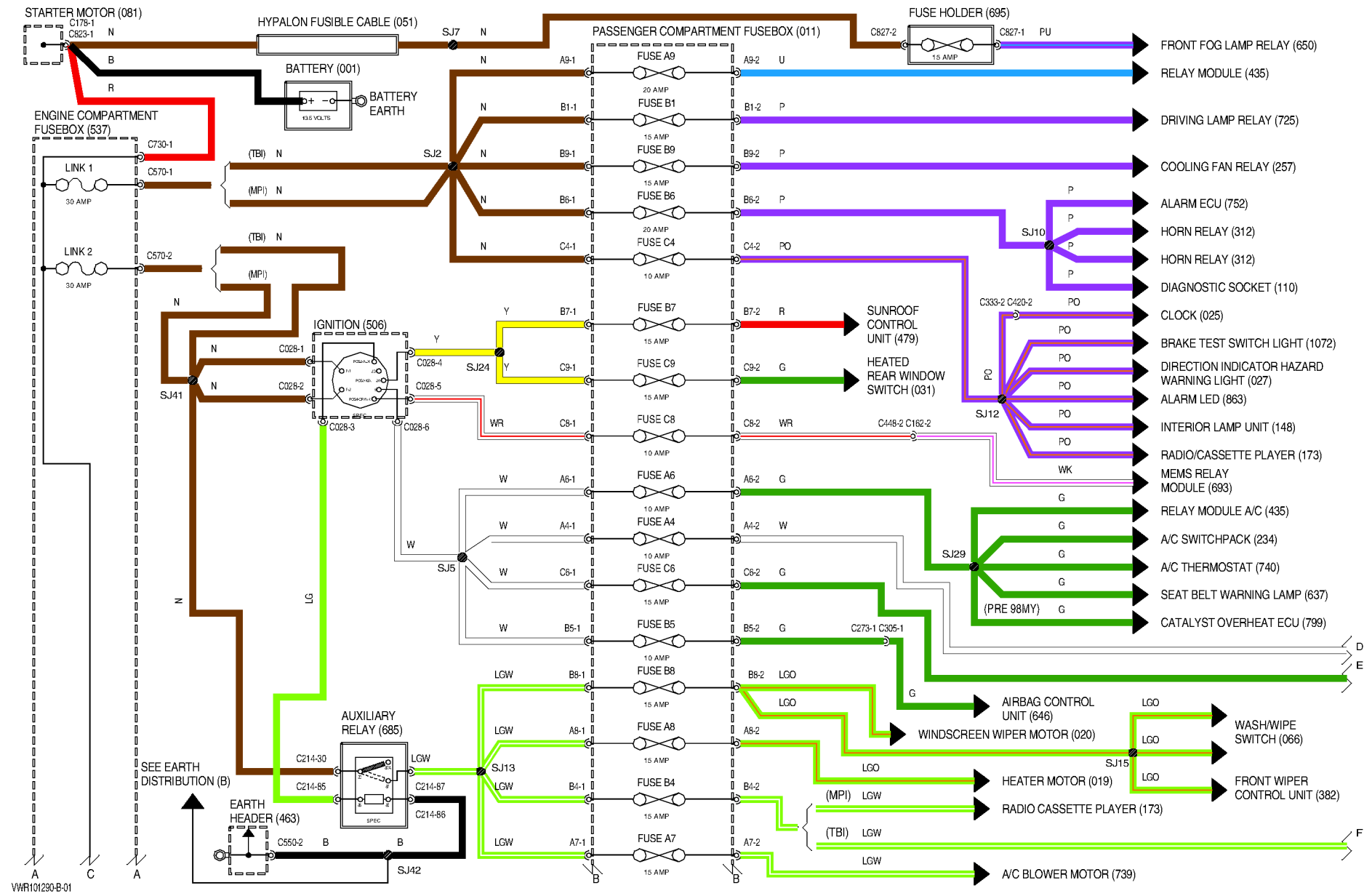


86M4234A

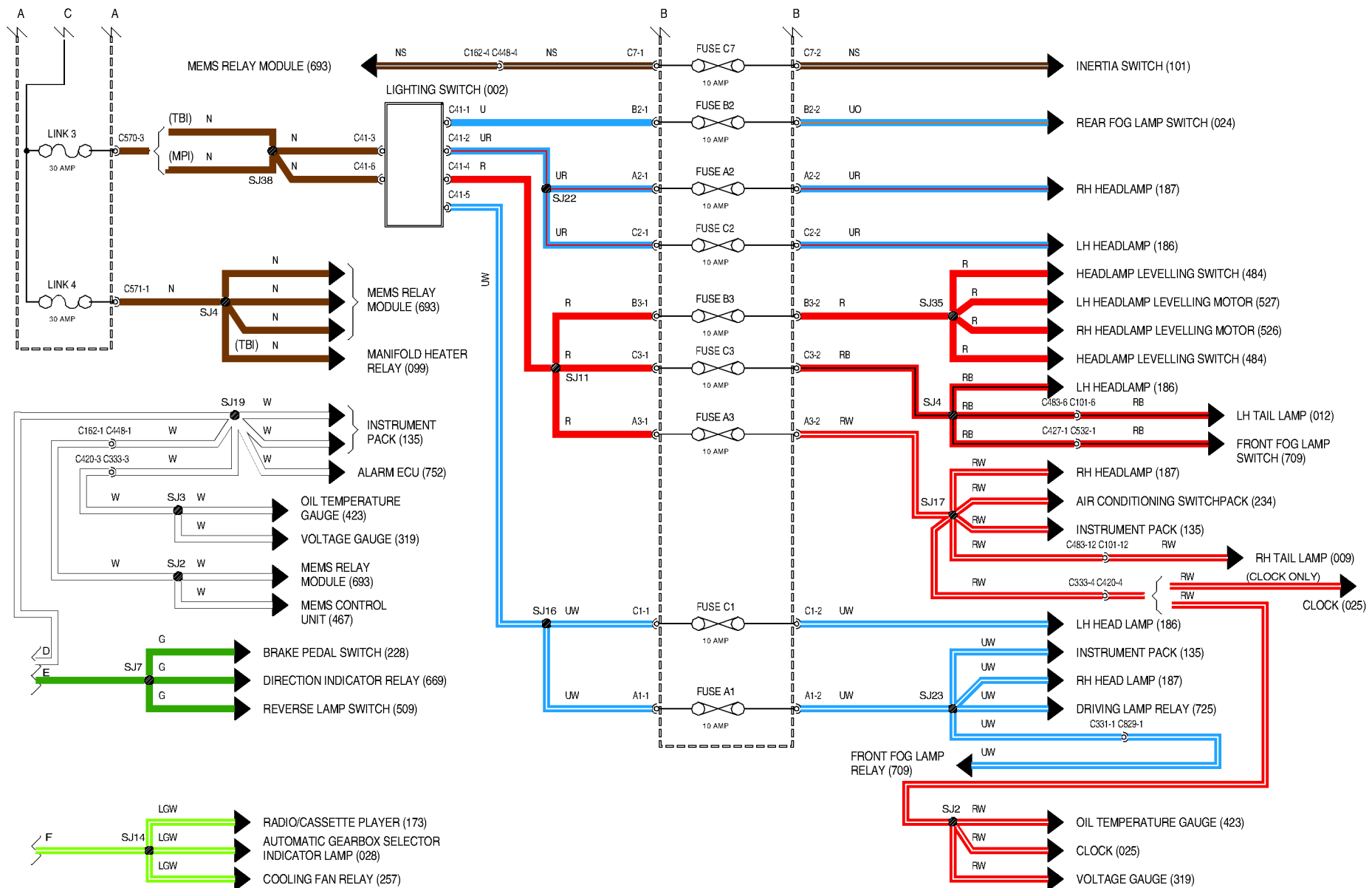
Fusible links (A) and current rated fuses (B) are identified as shown.

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

4 POWER DISTRIBUTION

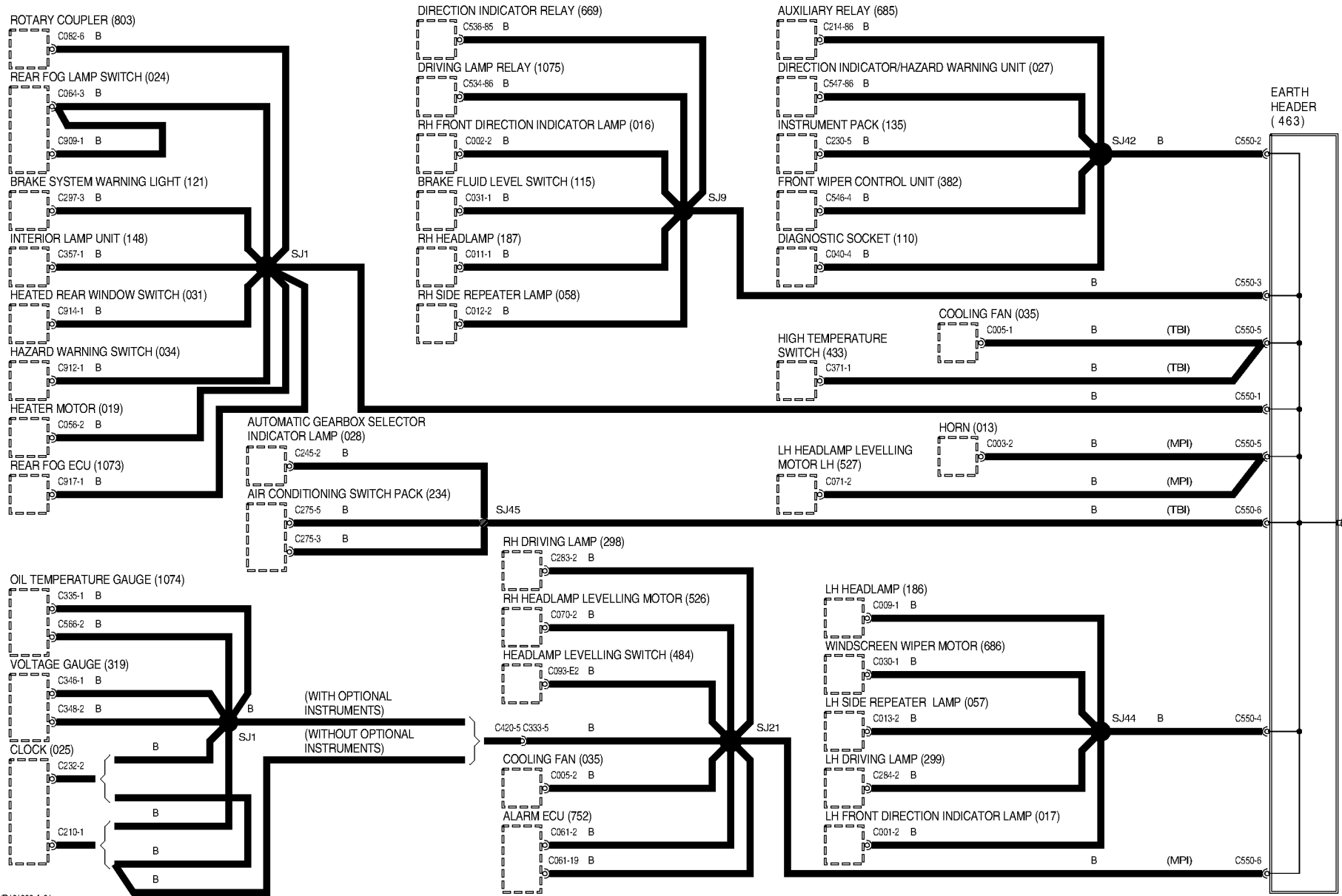


4 POWER DISTRIBUTION



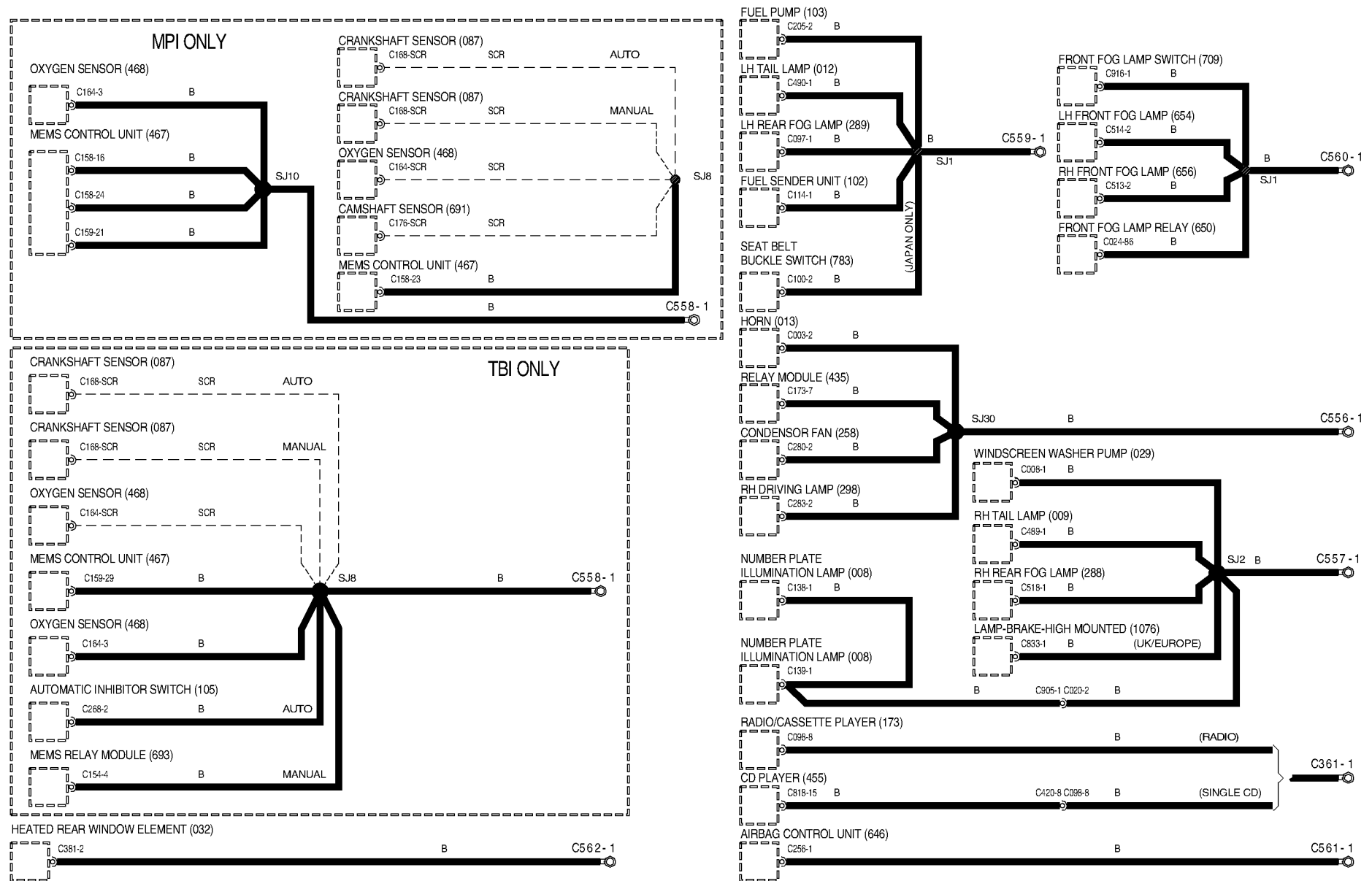
VWR101290-B-02

8 EARTH DISTRIBUTION



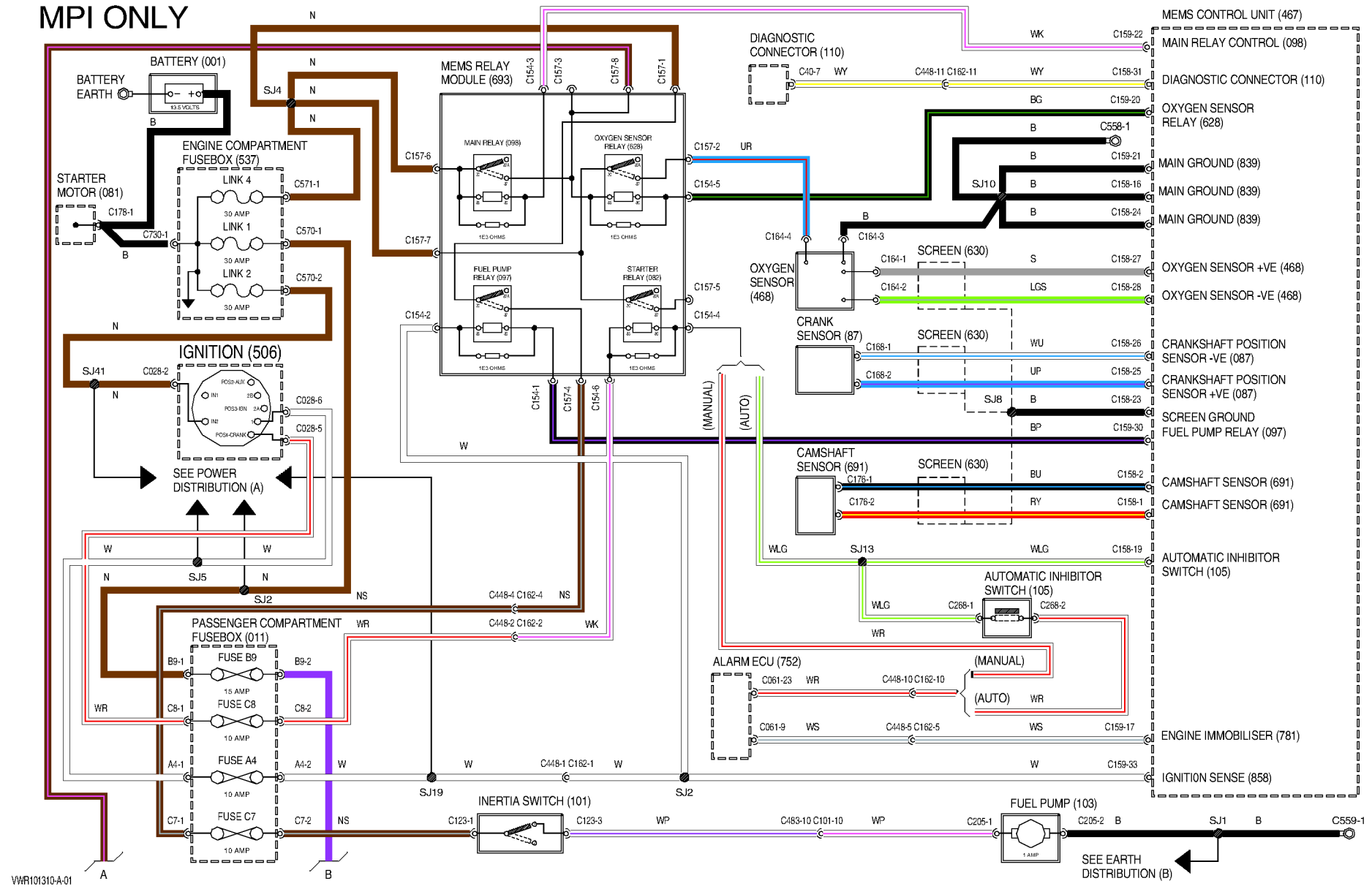
VWR101300-A-01

8 EARTH DISTRIBUTION



WIR101300-A-02

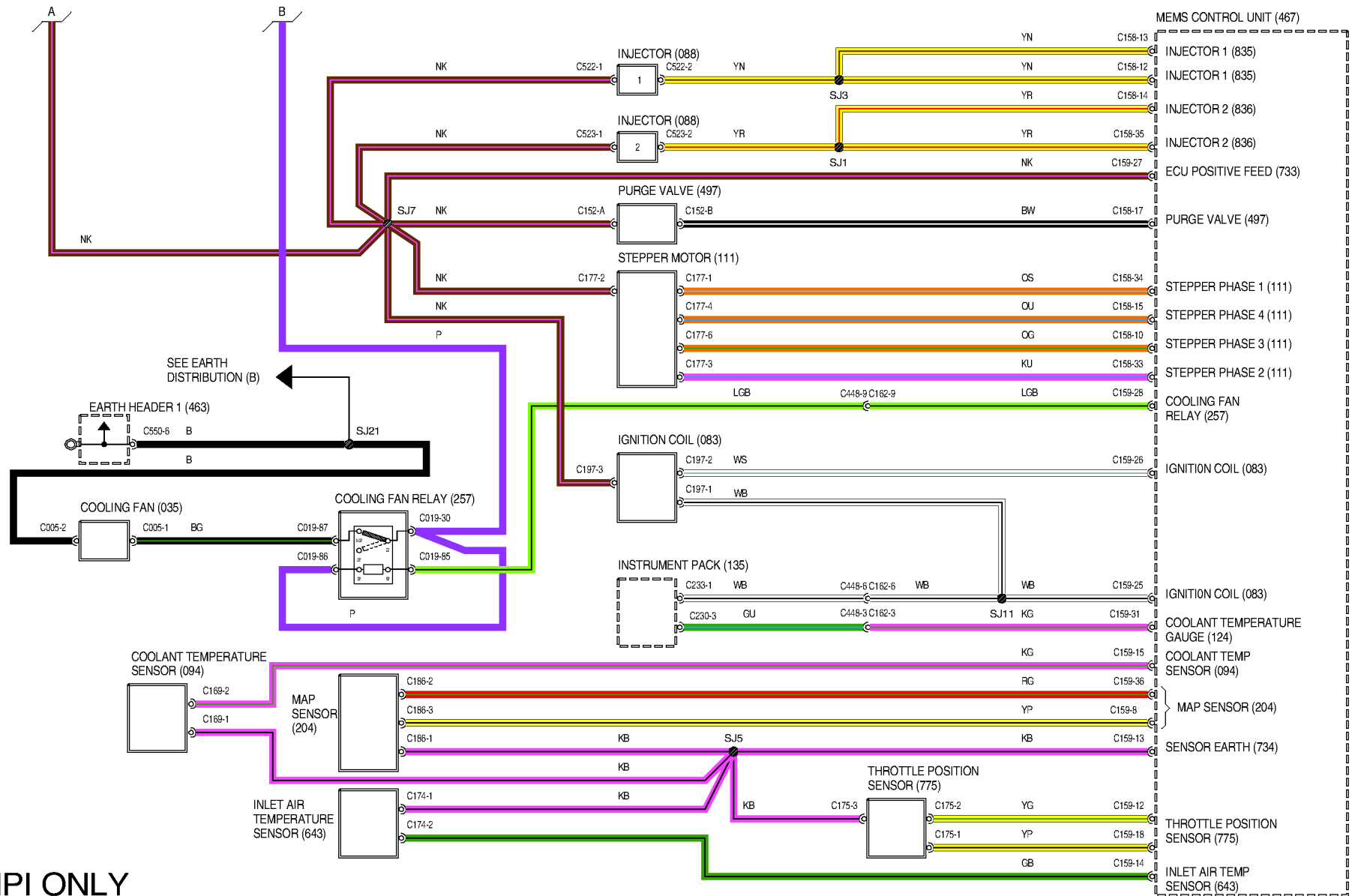
MPI ONLY



WVR101310-A-01

SEE EARTH DISTRIBUTION (B)

12 ENGINE MANAGEMENT MPI

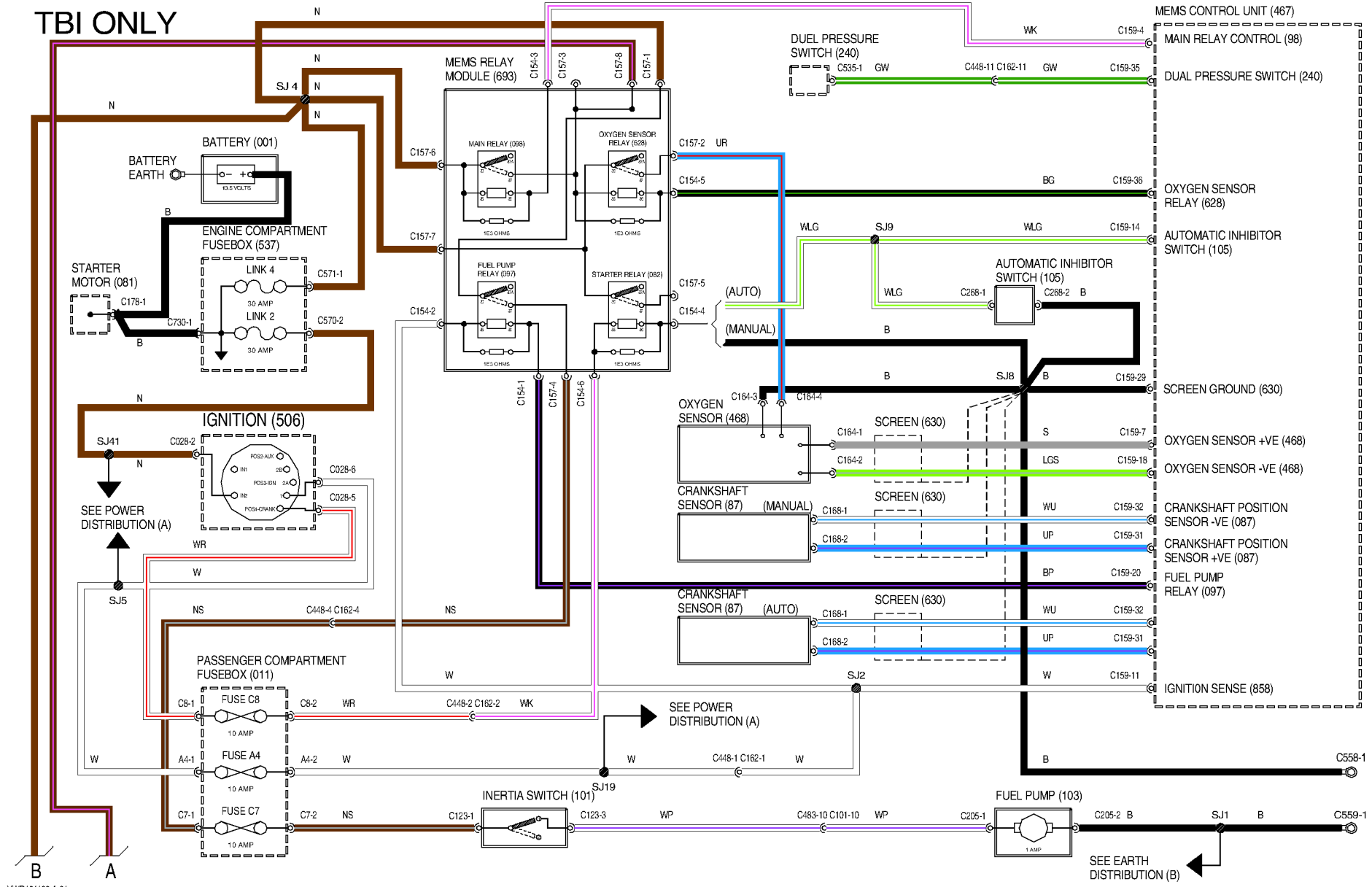


MPI ONLY

VWR101130-A-02

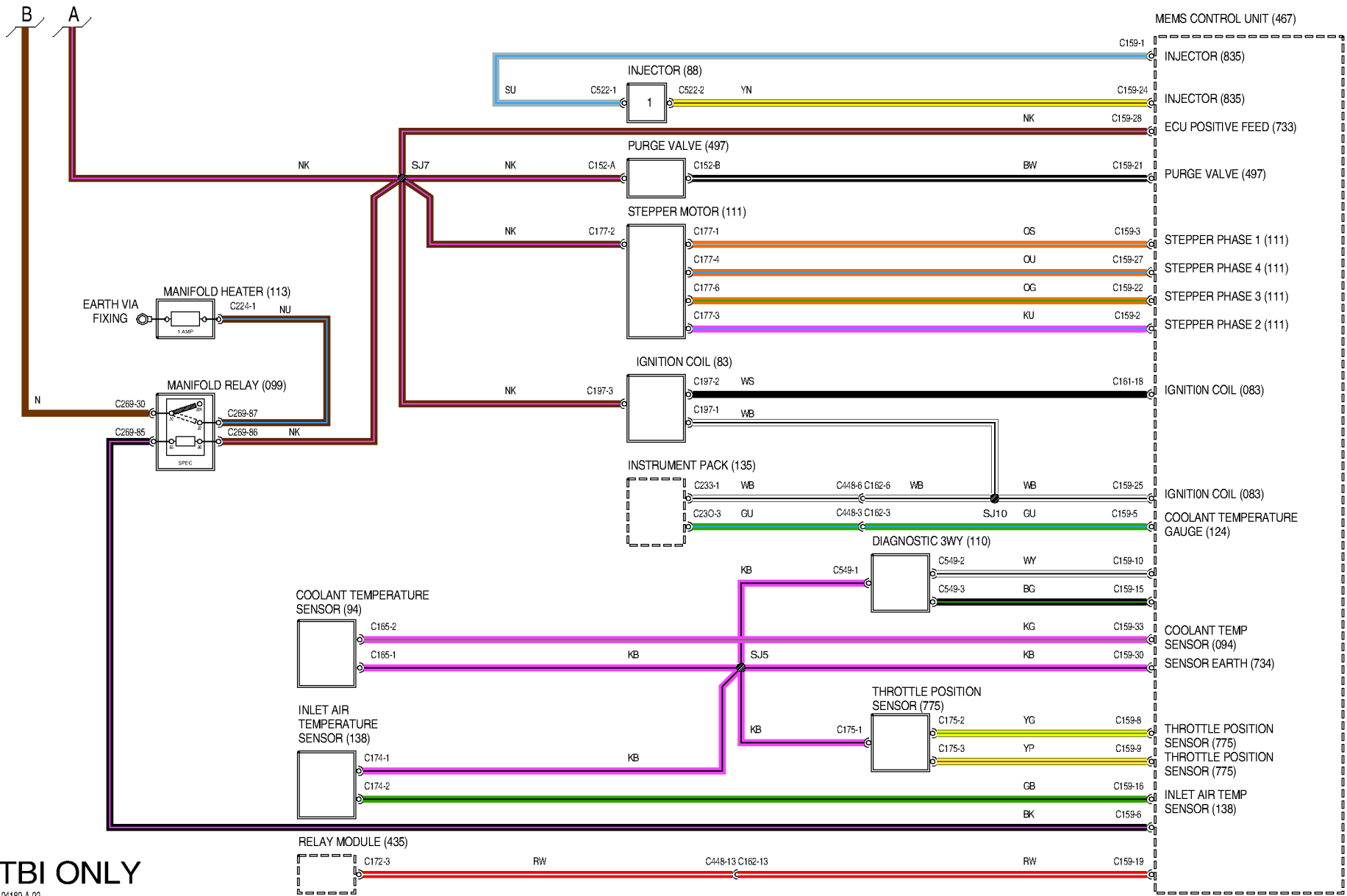
12 ENGINE MANAGEMENT TBI

TBI ONLY



VWR104180-A-01

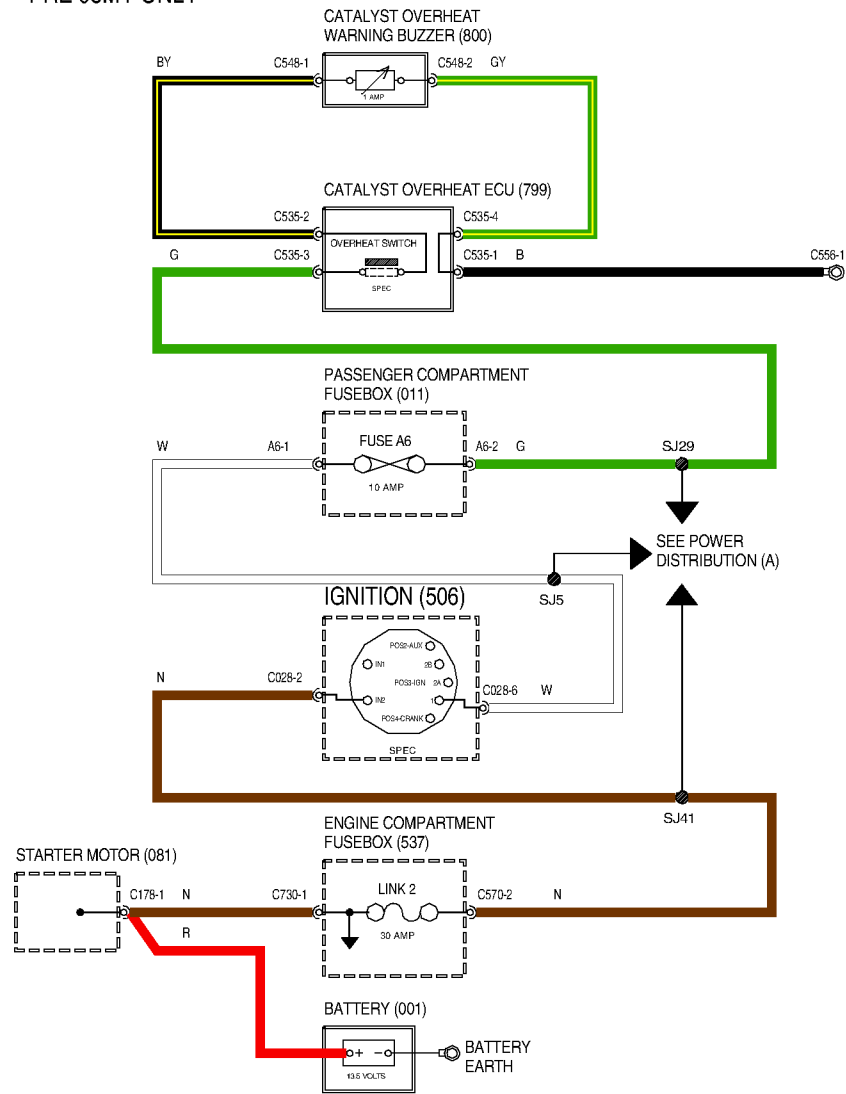
12 ENGINE MANAGEMENT TBI



TBI ONLY

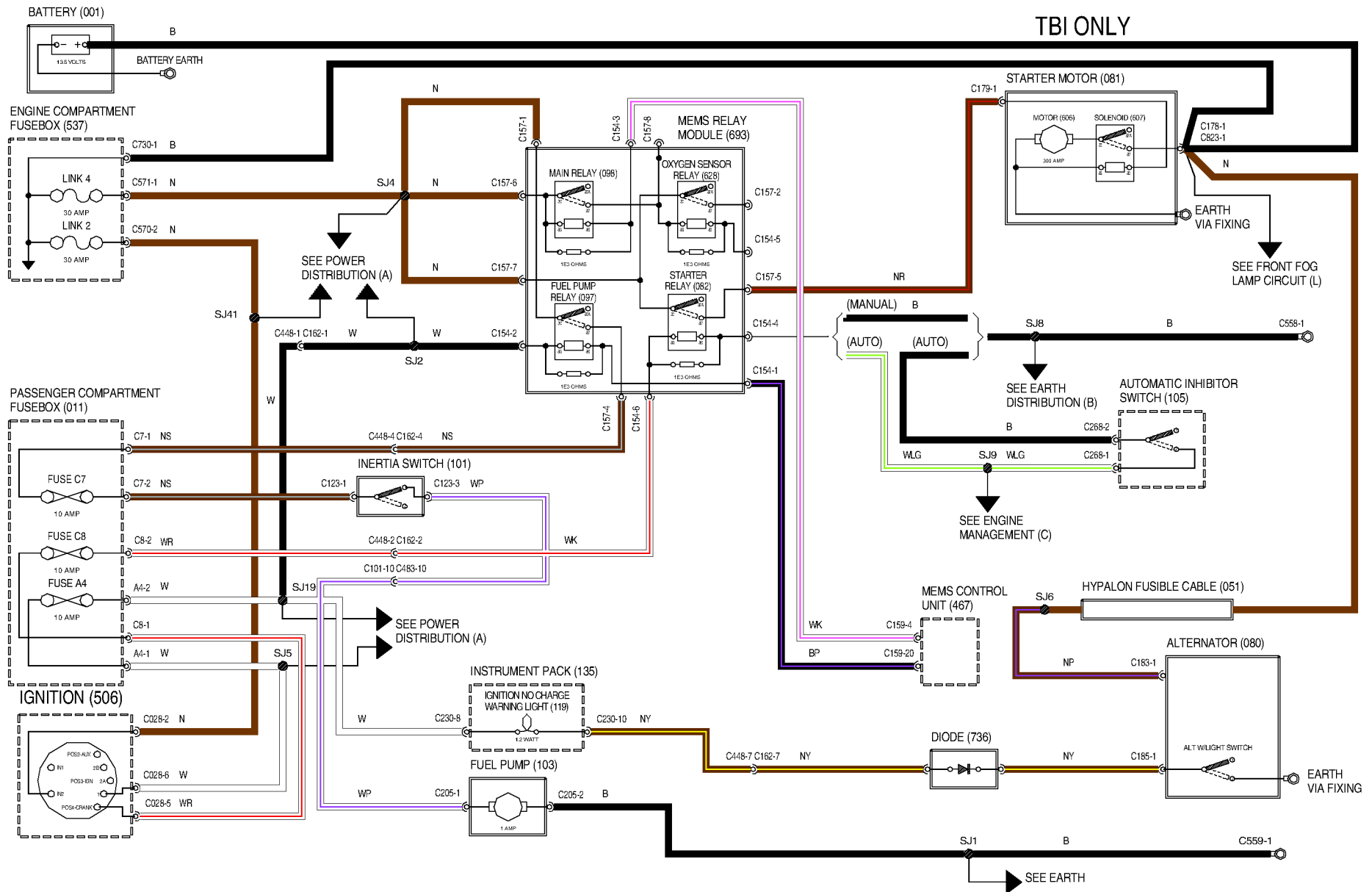
VWR104180-A-02

PRE 98MY ONLY

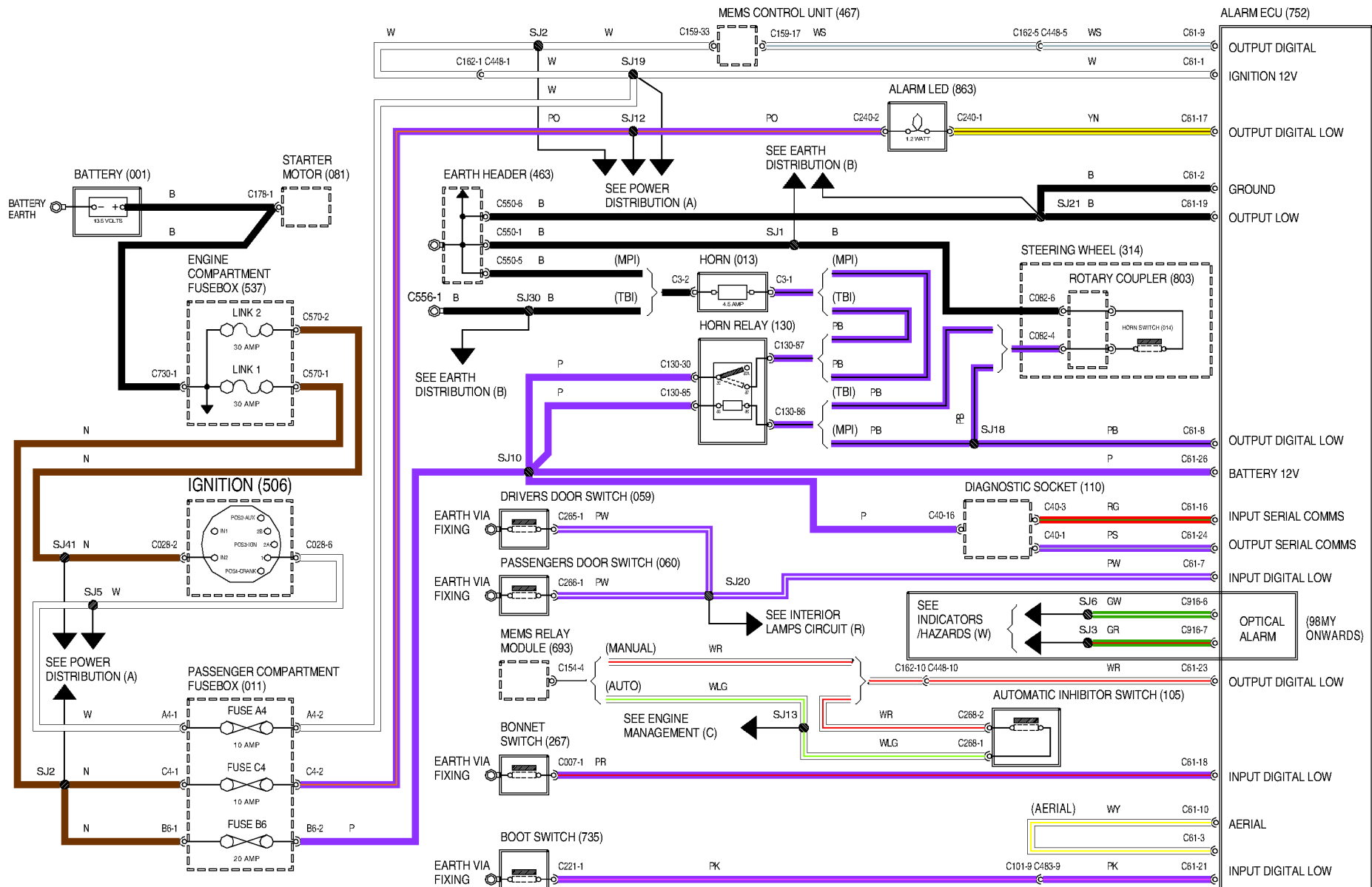


VWR104200-B-01

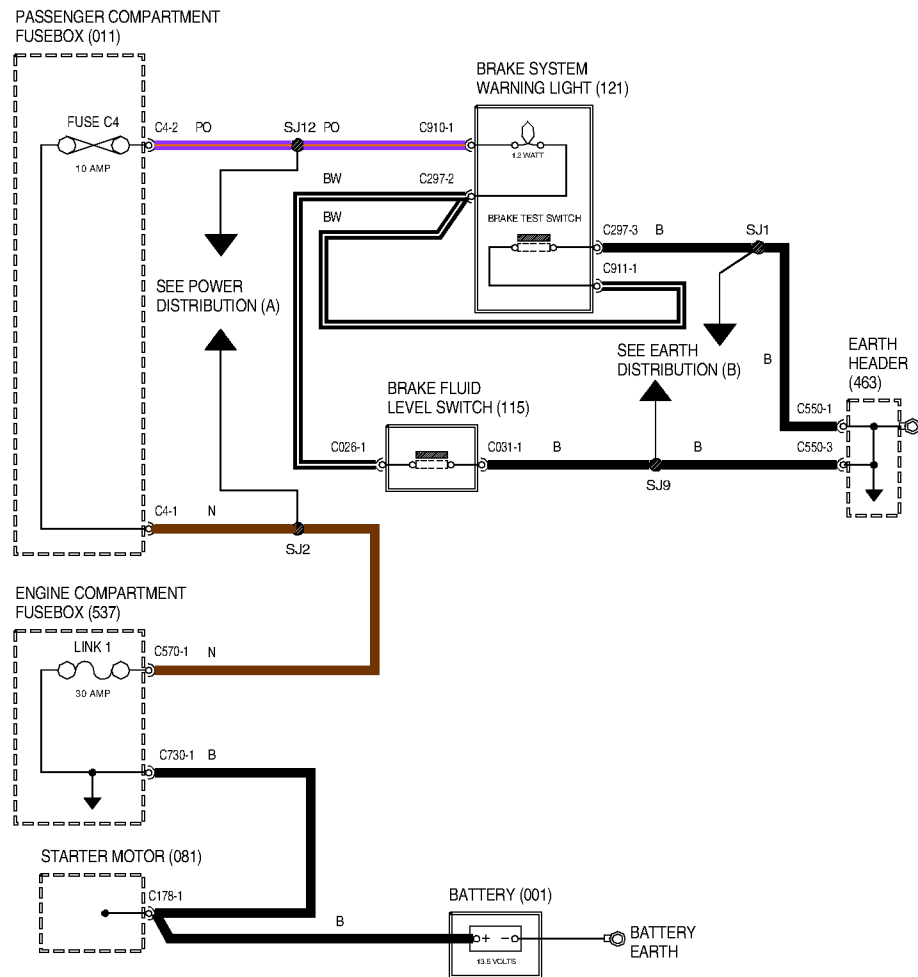
16 CHARGING AND STARTING TBI



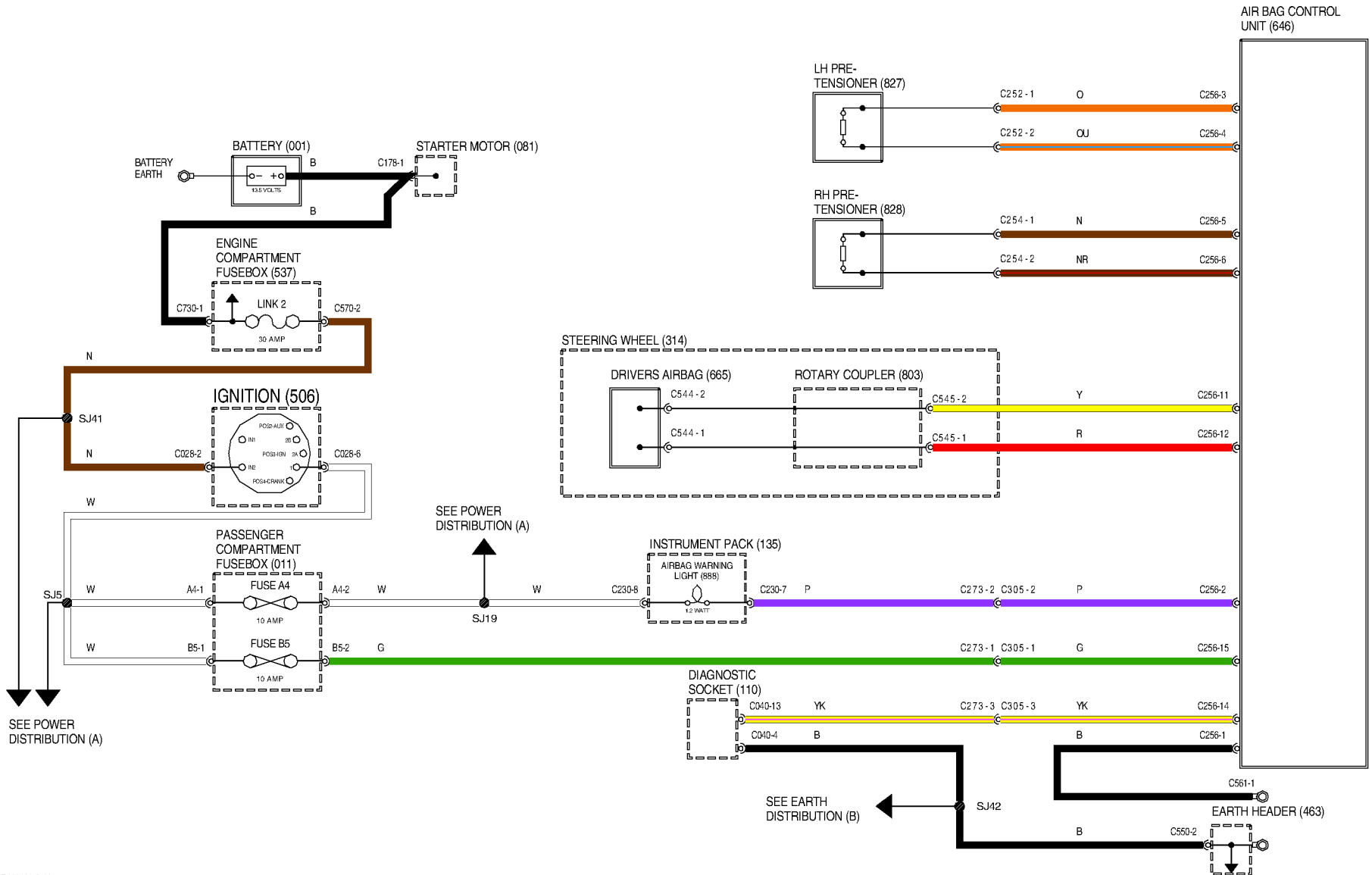
TBI ONLY



VWR101370-A-01



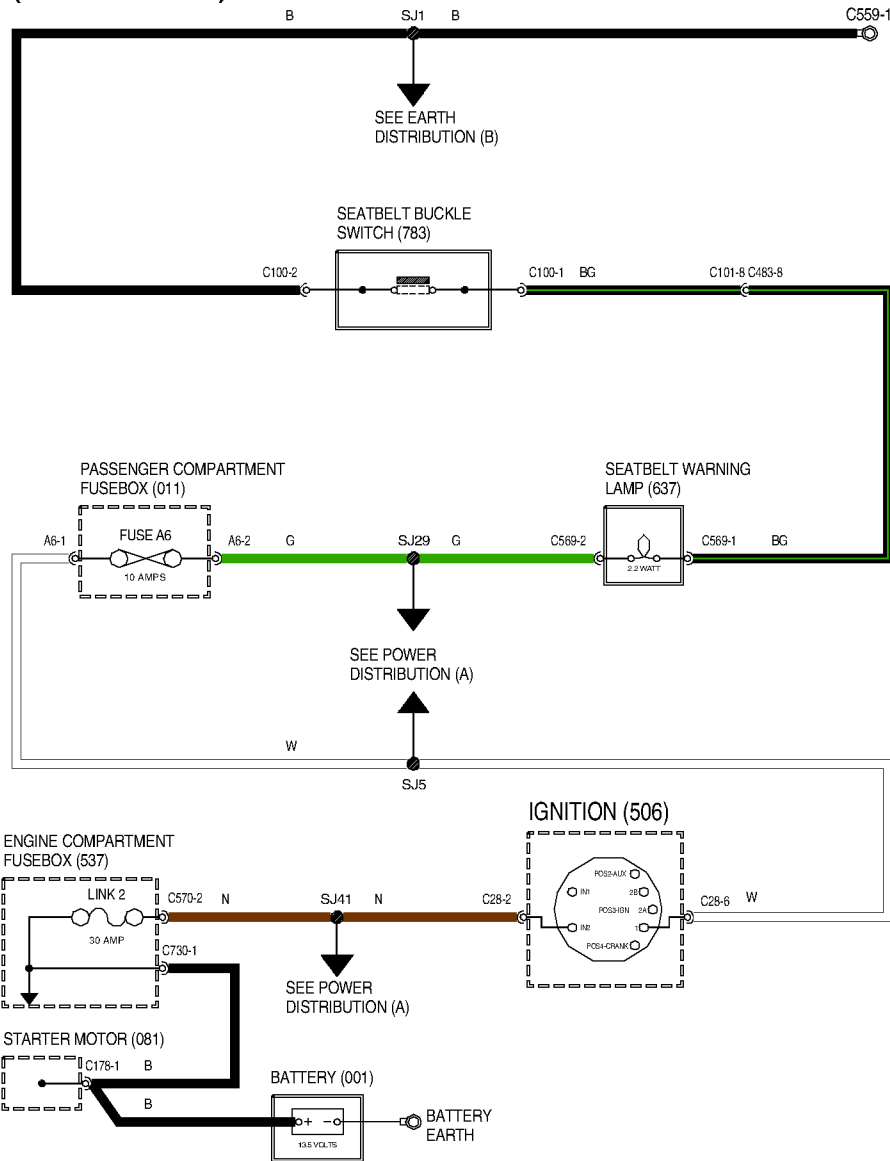
VWR104370-A-01



VWR103100-A-01

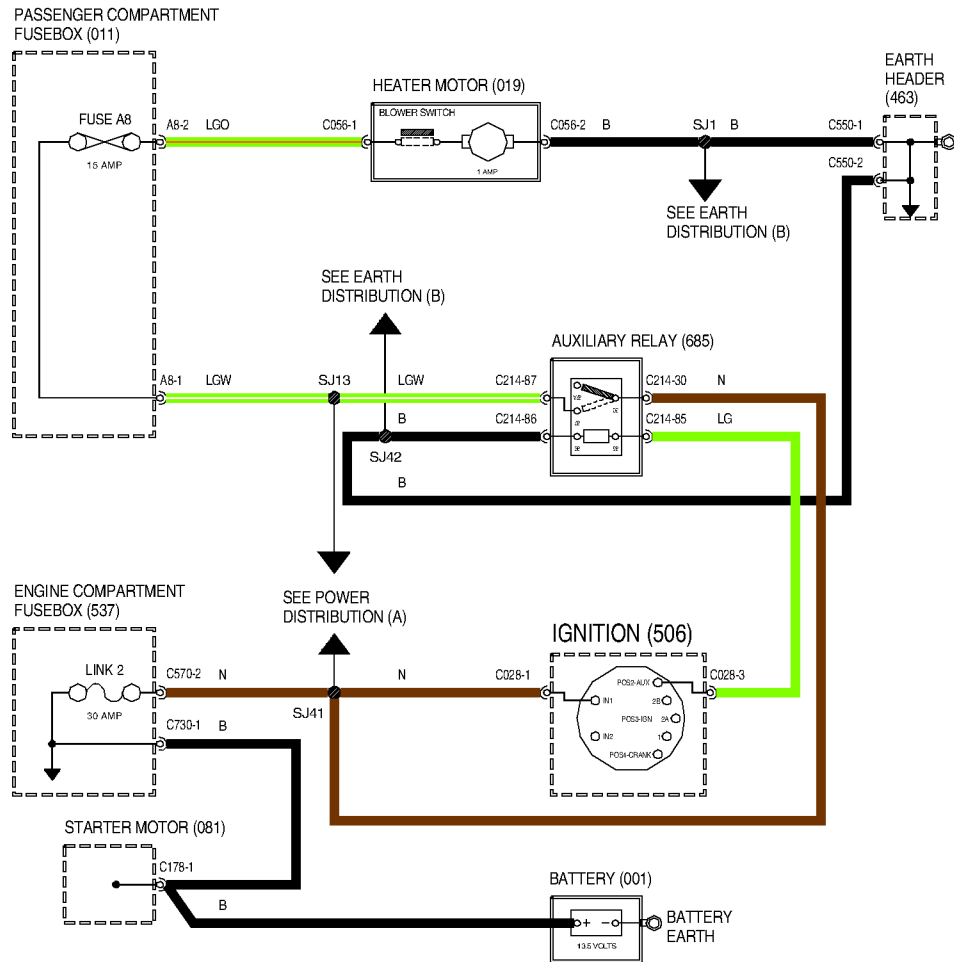
68 SEAT BELT WARNING (JAPAN ONLY) TBI

(TBI ONLY)

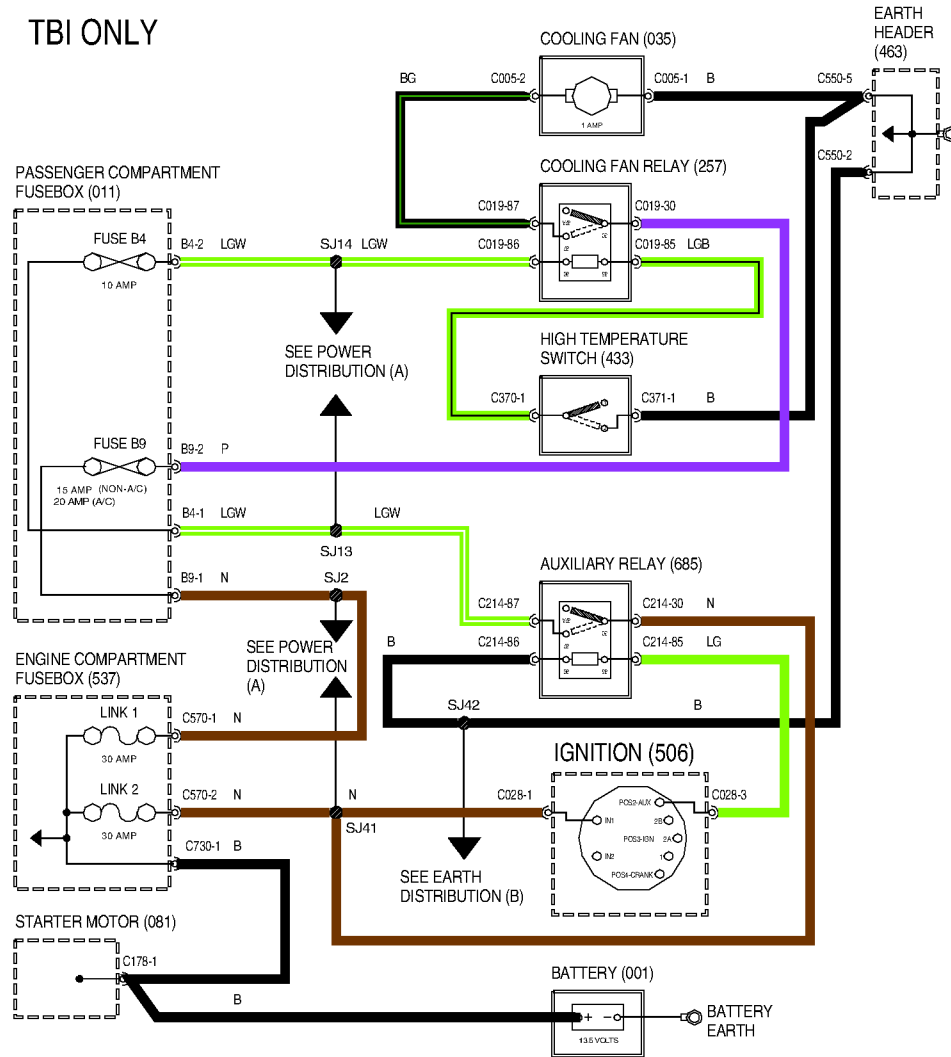


VWR104210-A-01

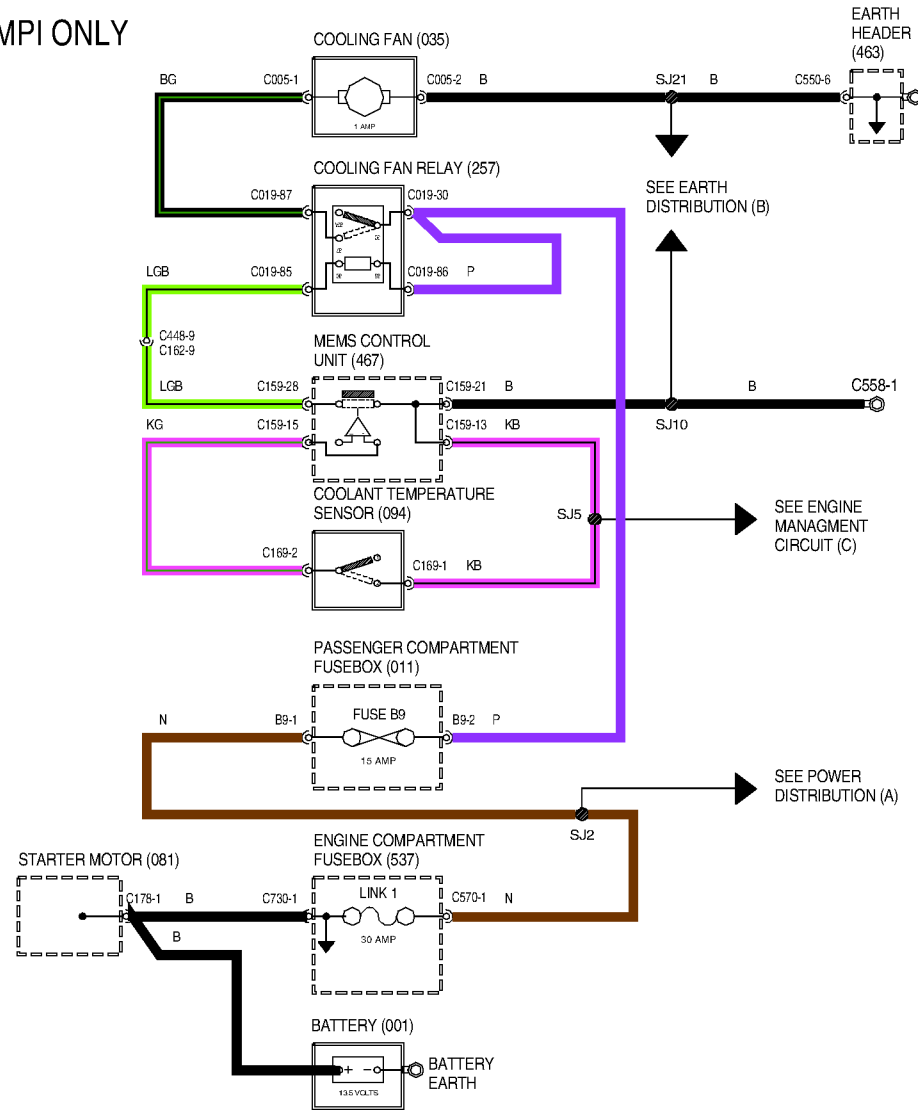
76 HEATER



TBI ONLY

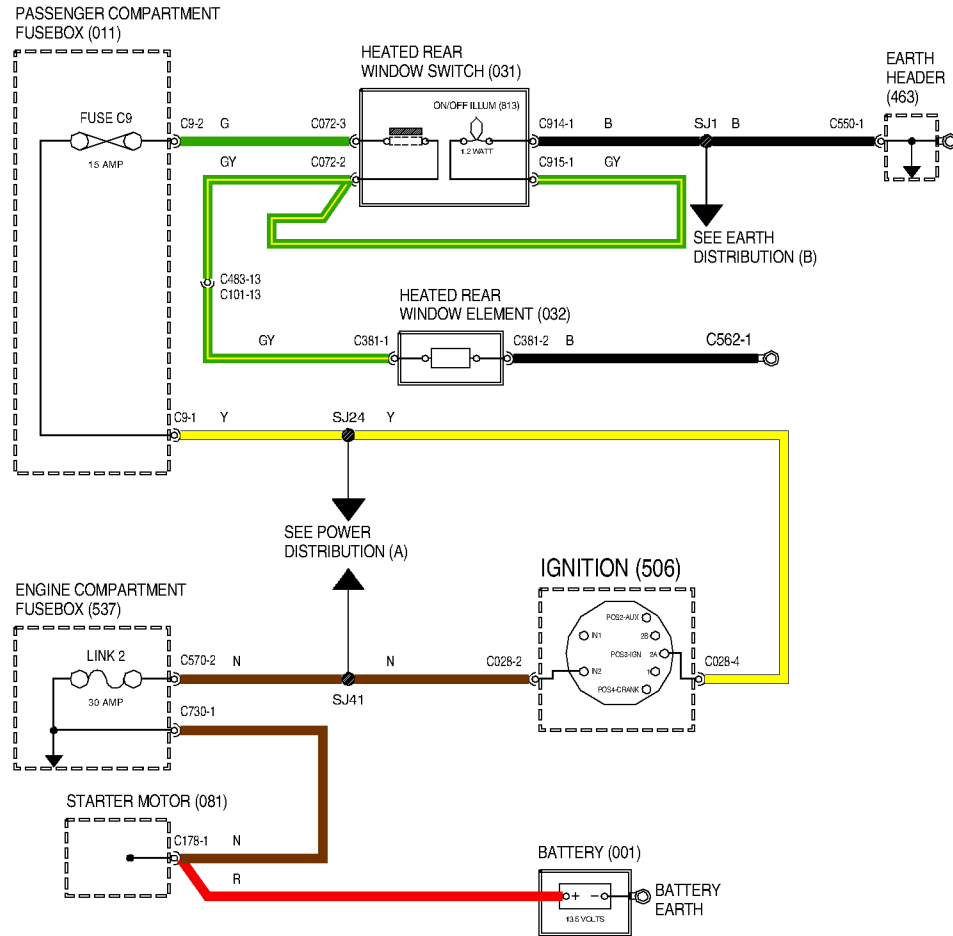


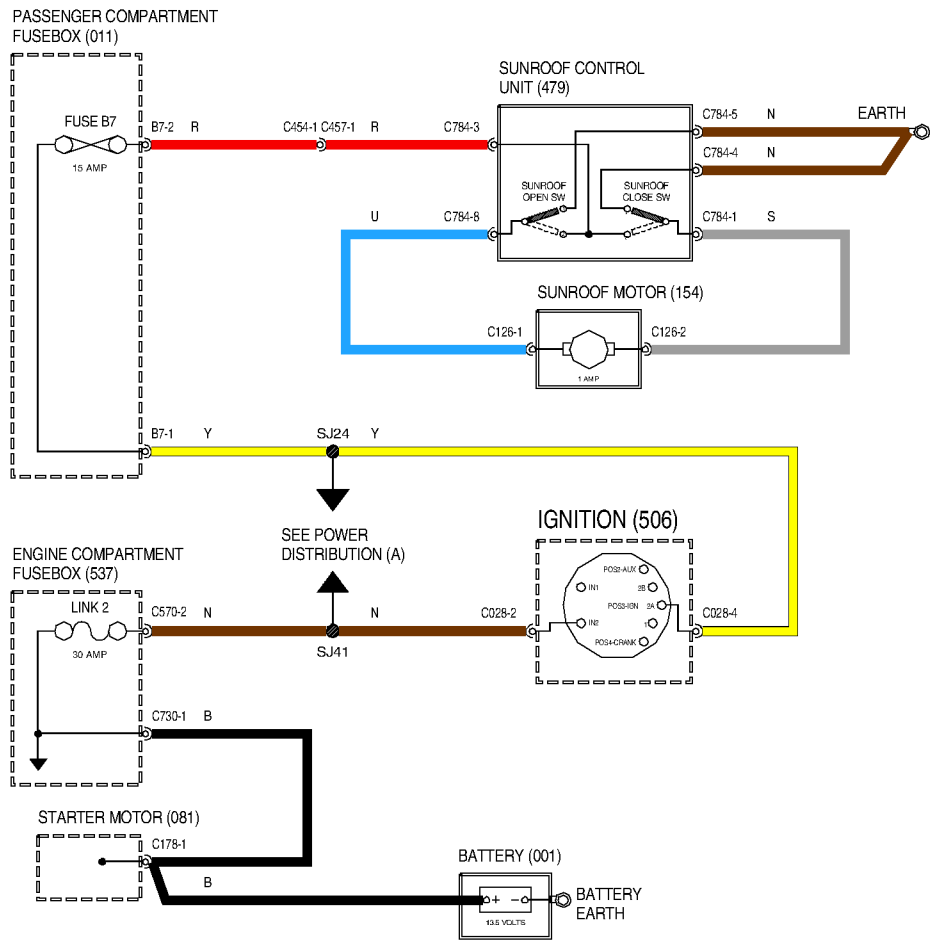
MPI ONLY



VWR104360-A-01

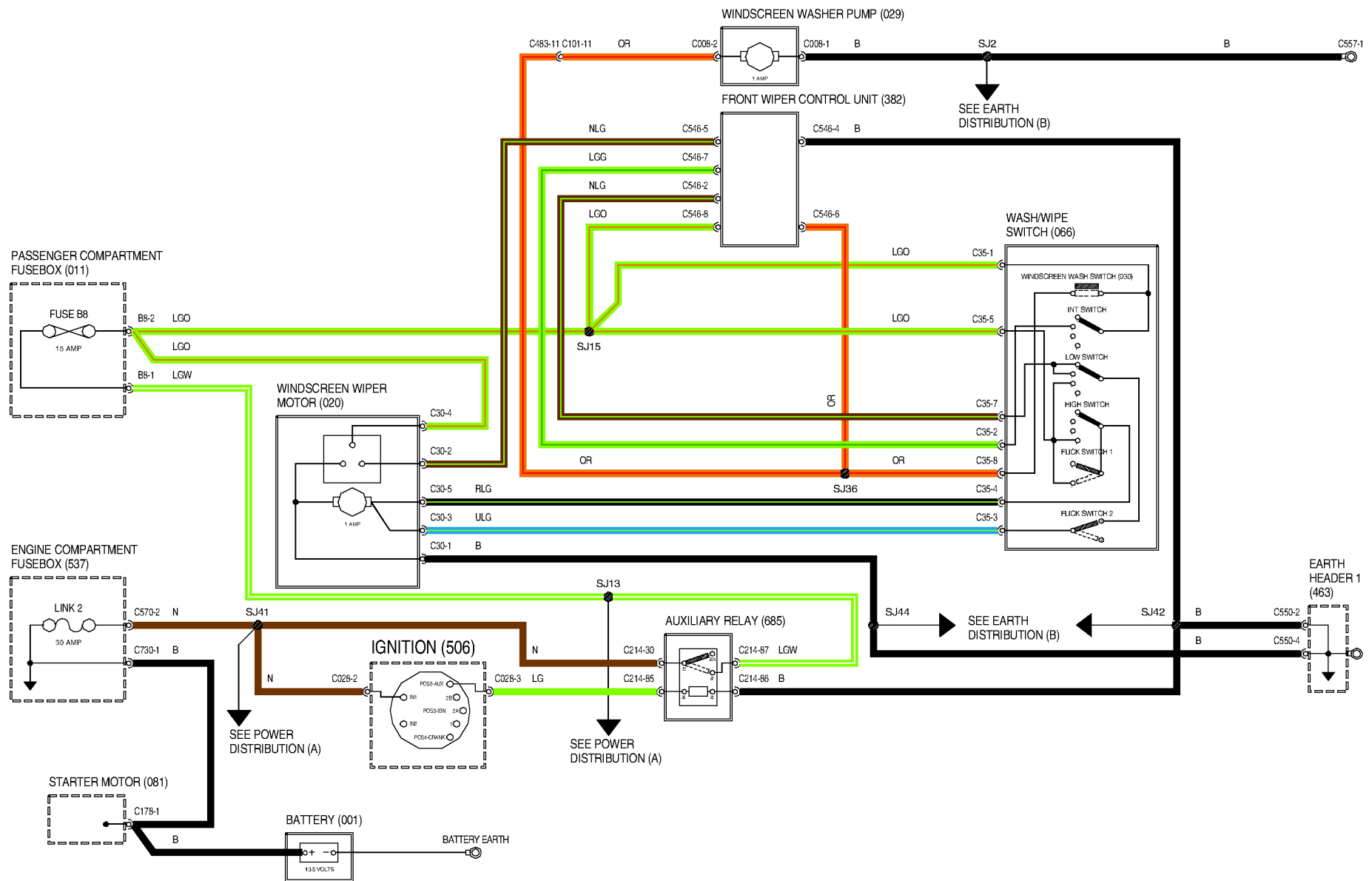
92 HEATED WINDOW



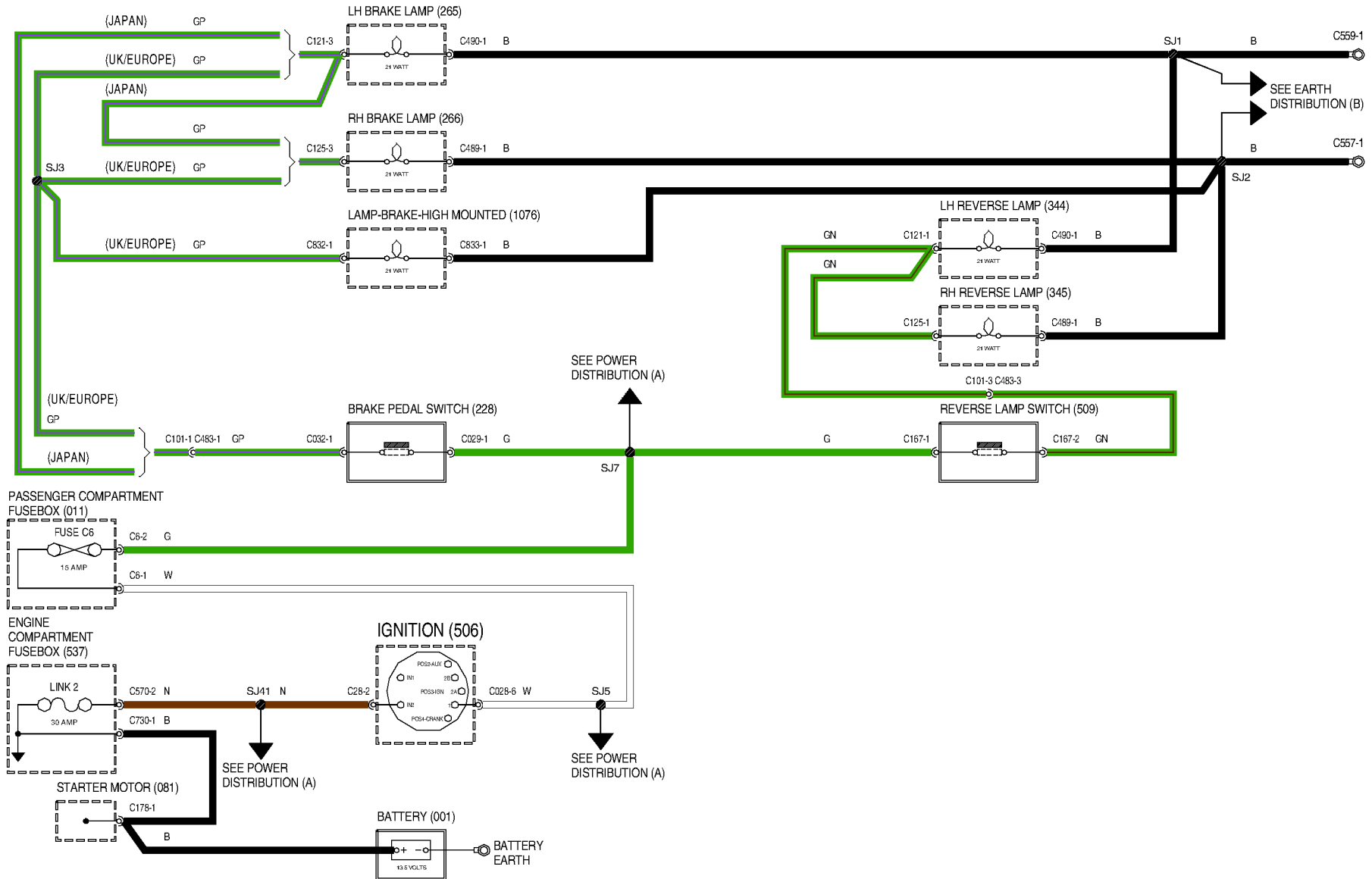


WVR101340-A-01

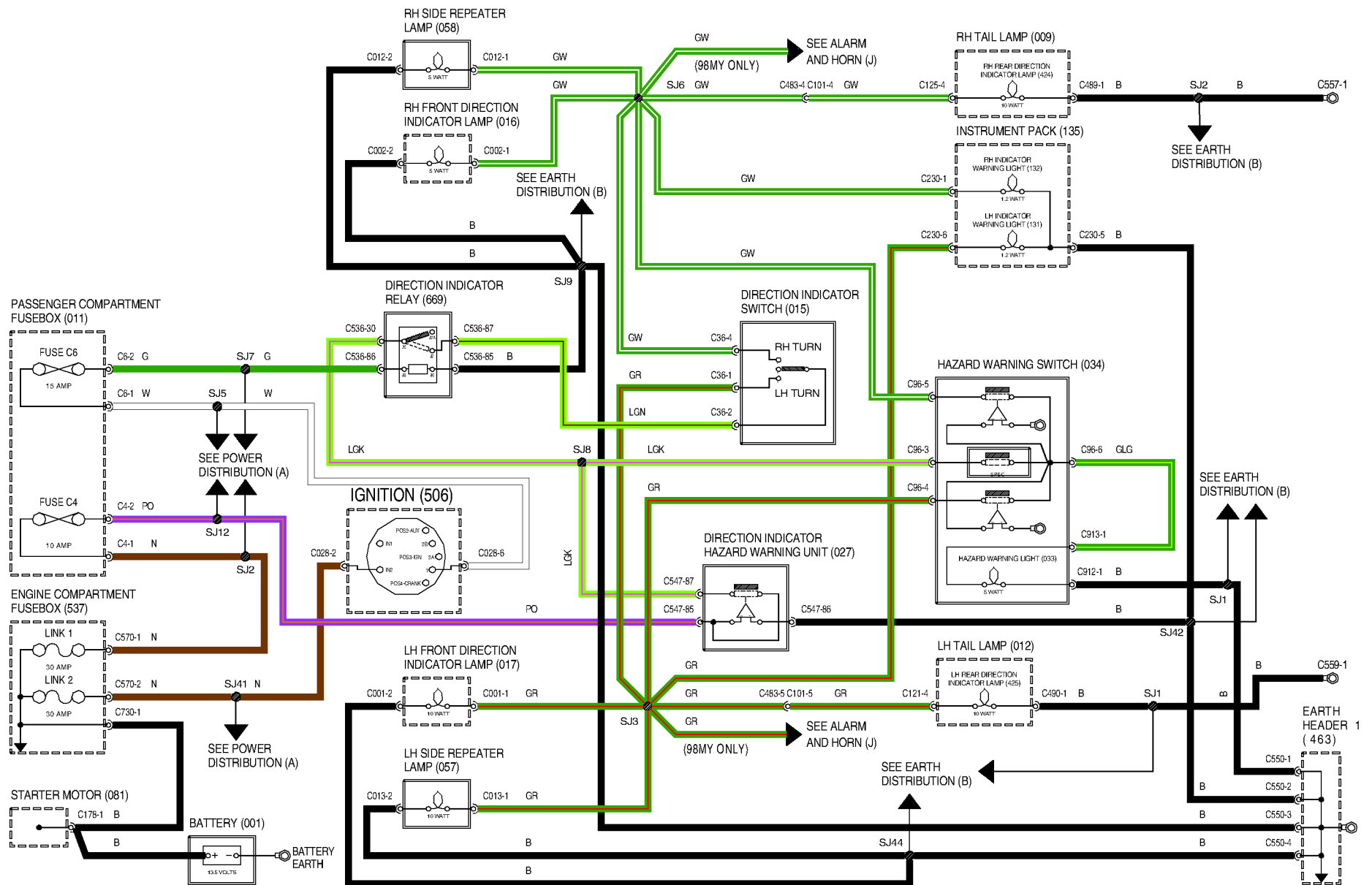
104 WIPERS AND WASHERS



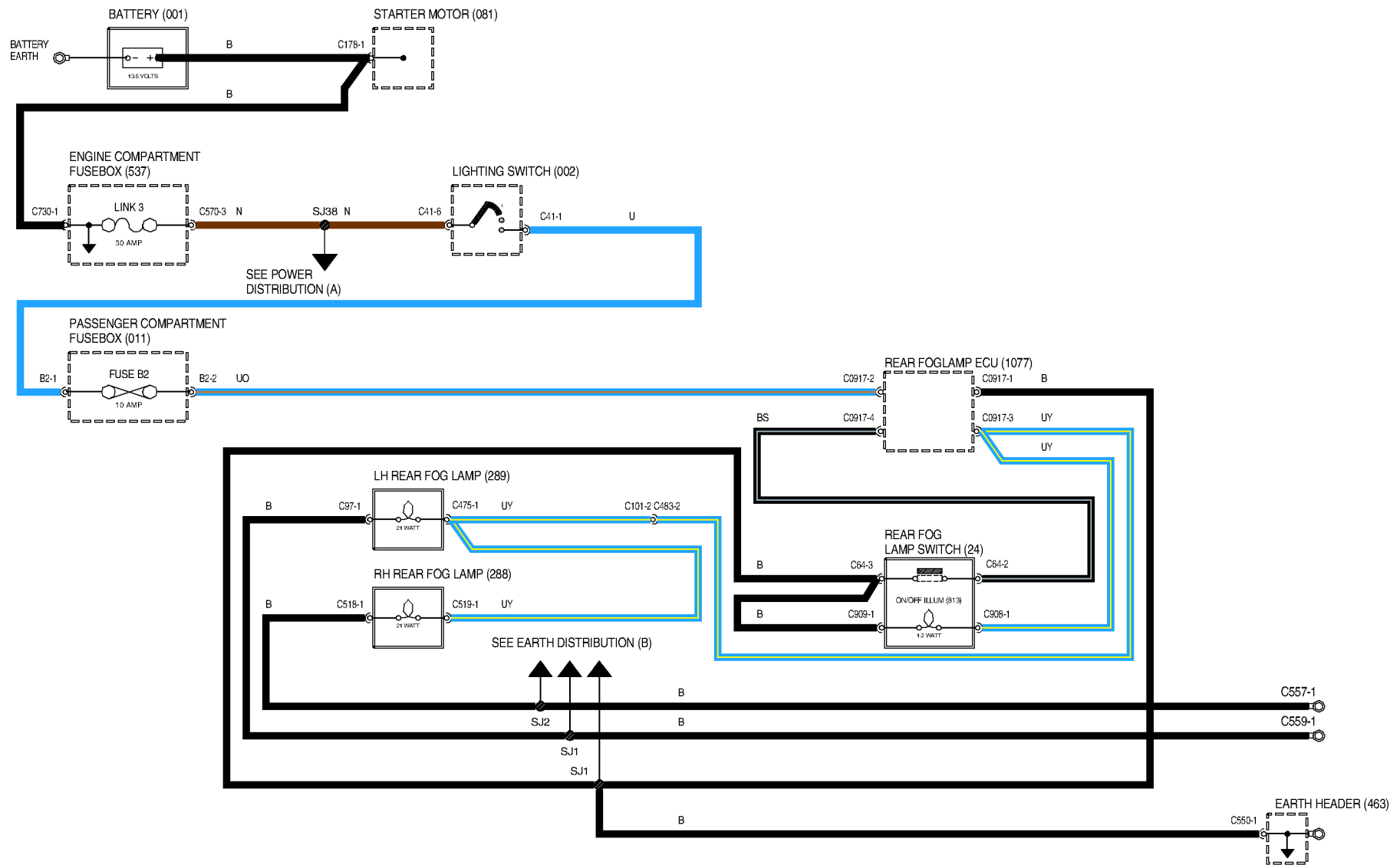
VWR101350-A-01



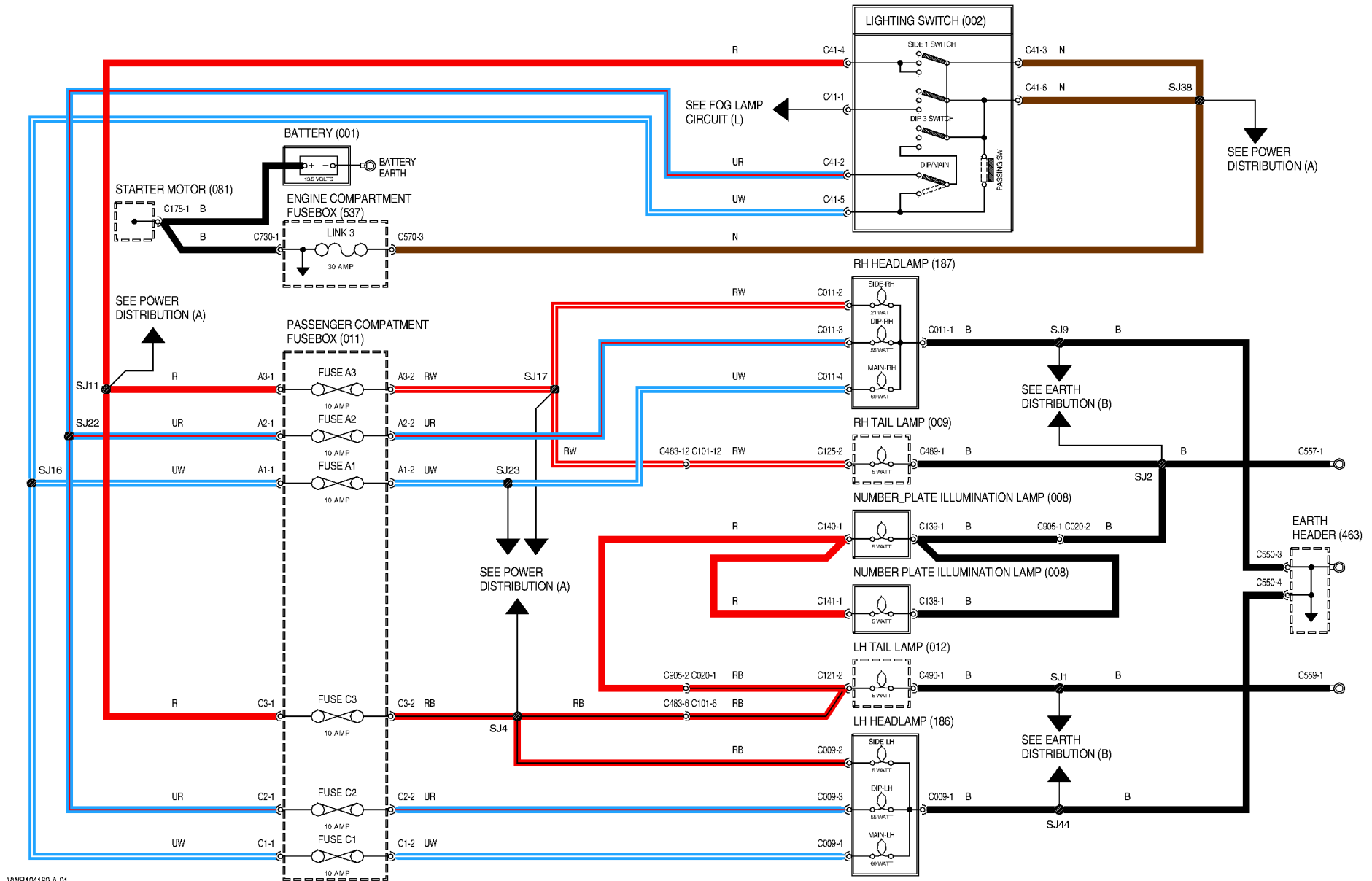
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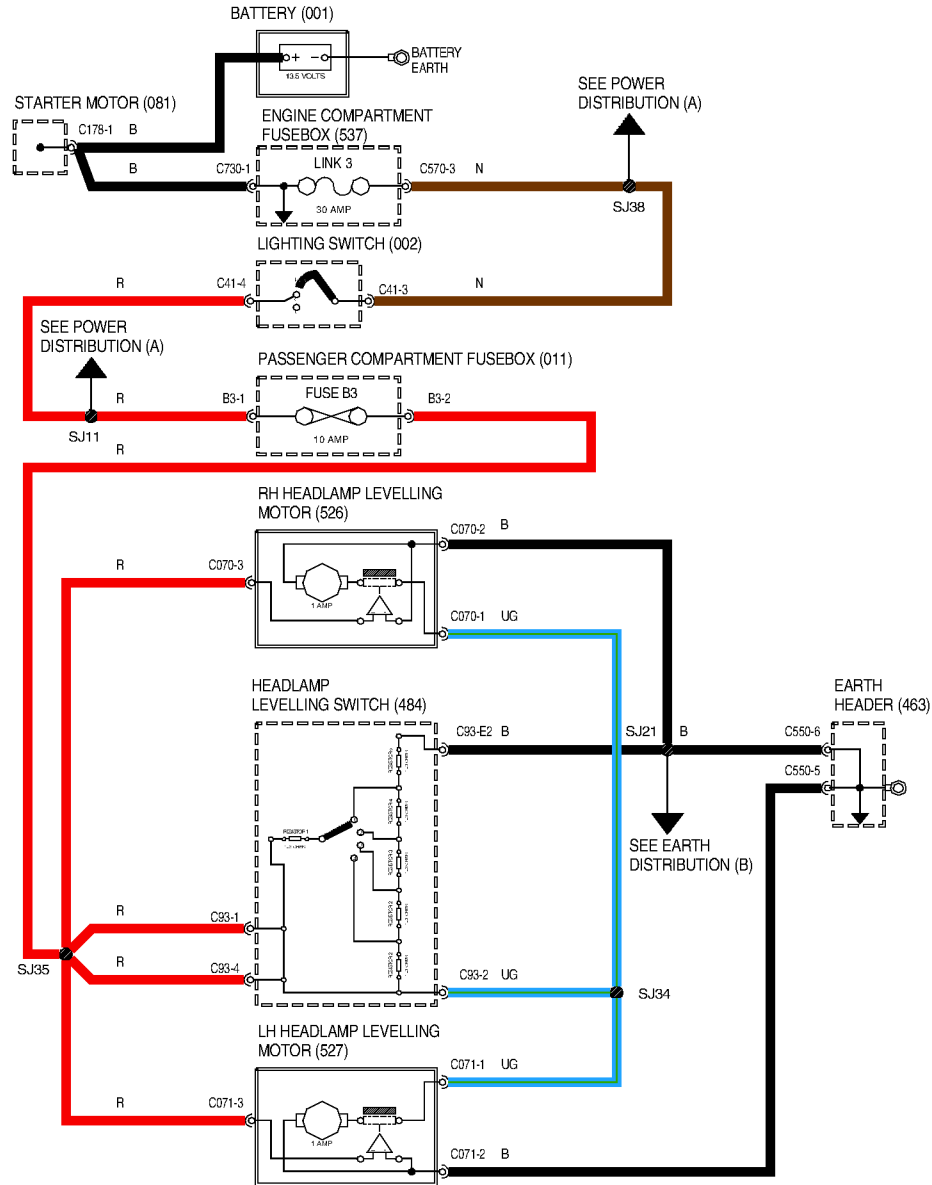
VWR101330-B-01



VWR104150-A-01

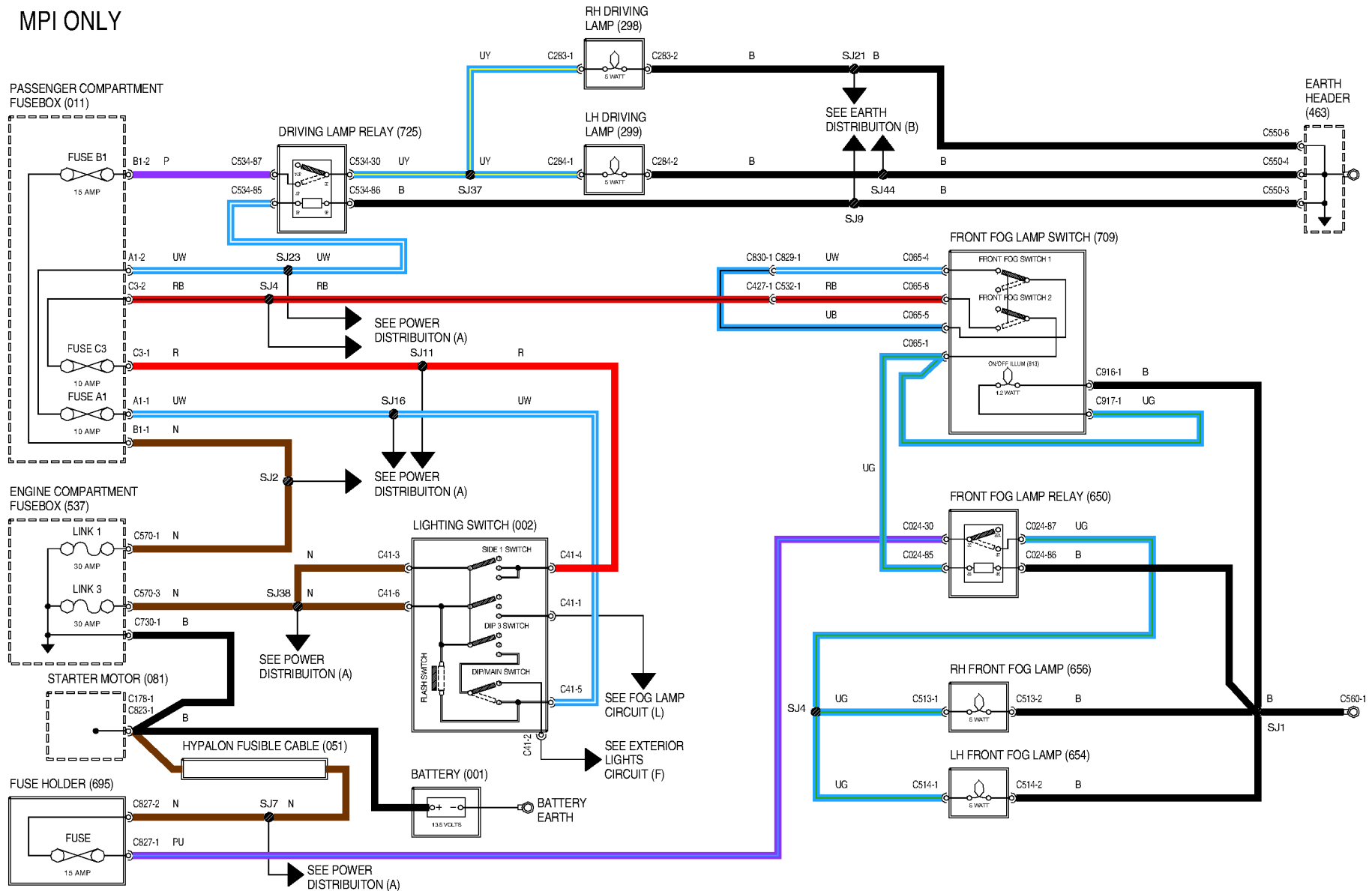


VWR104160-A-01



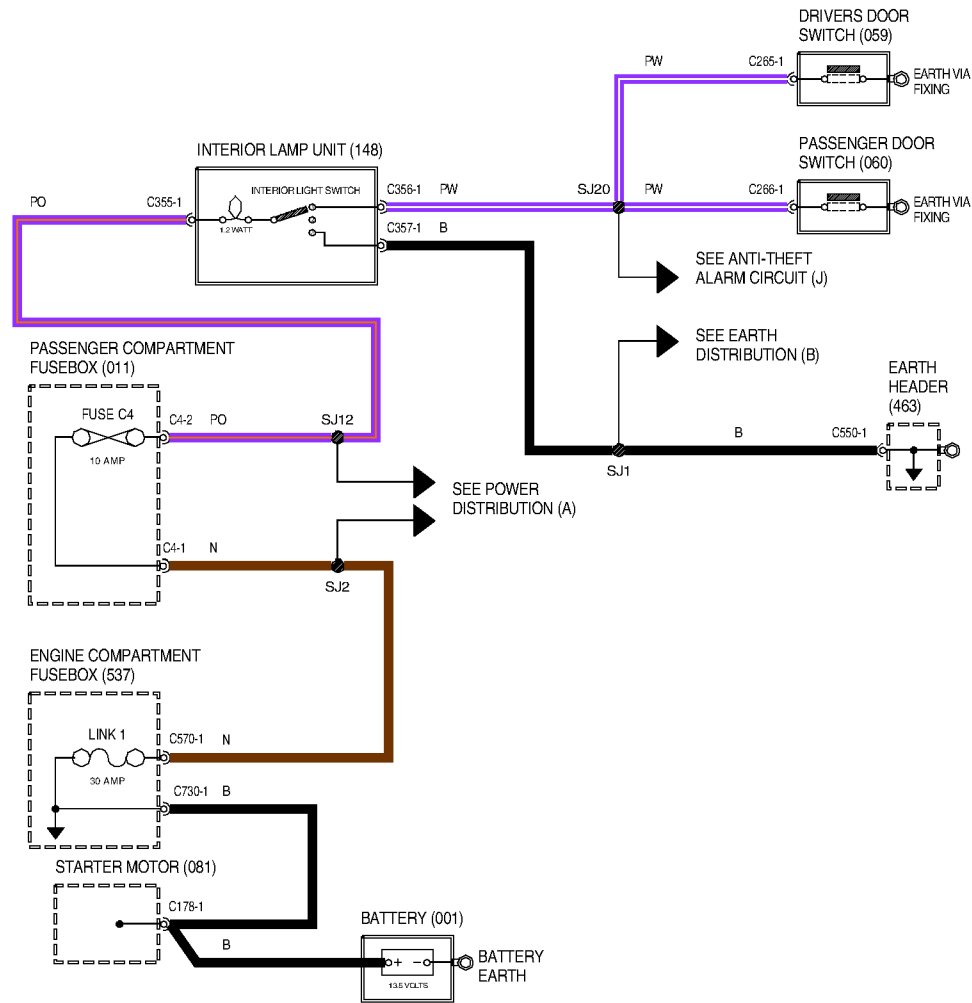
VWR104170-A-01

MPI ONLY

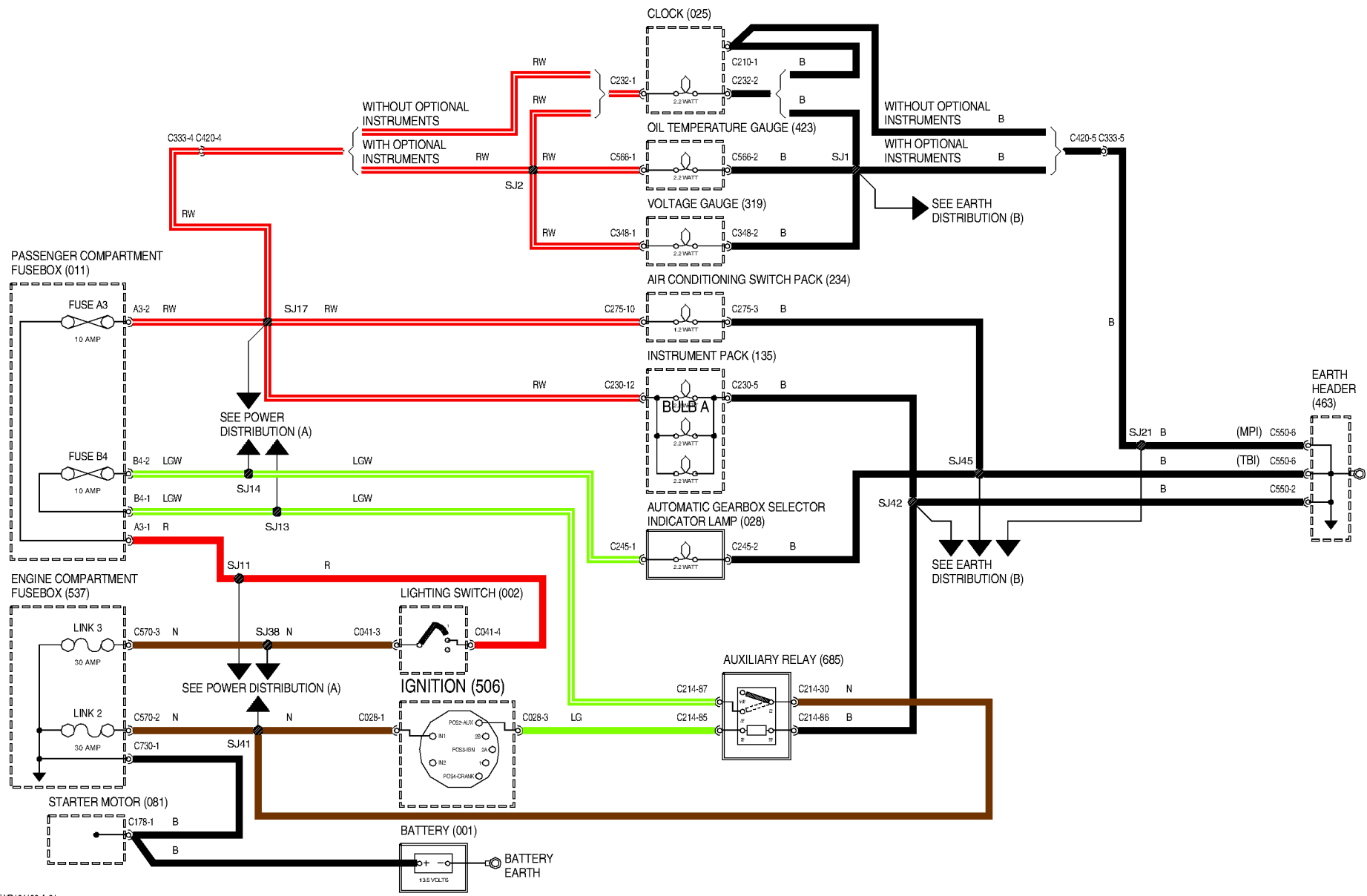


VWR104340-A-01

112 INTERIOR LAMPS

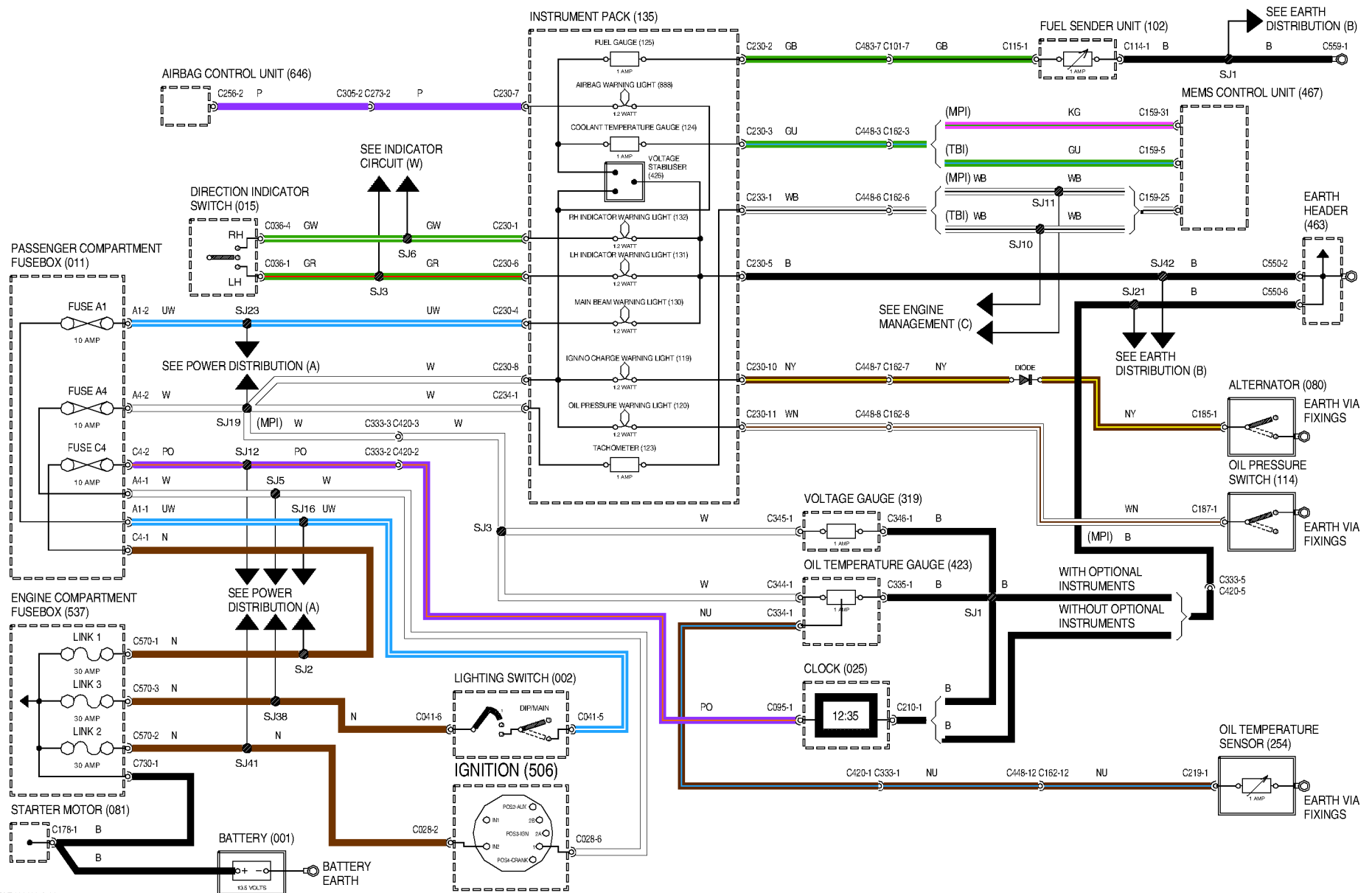


116 INTERIOR ILLUMINATION

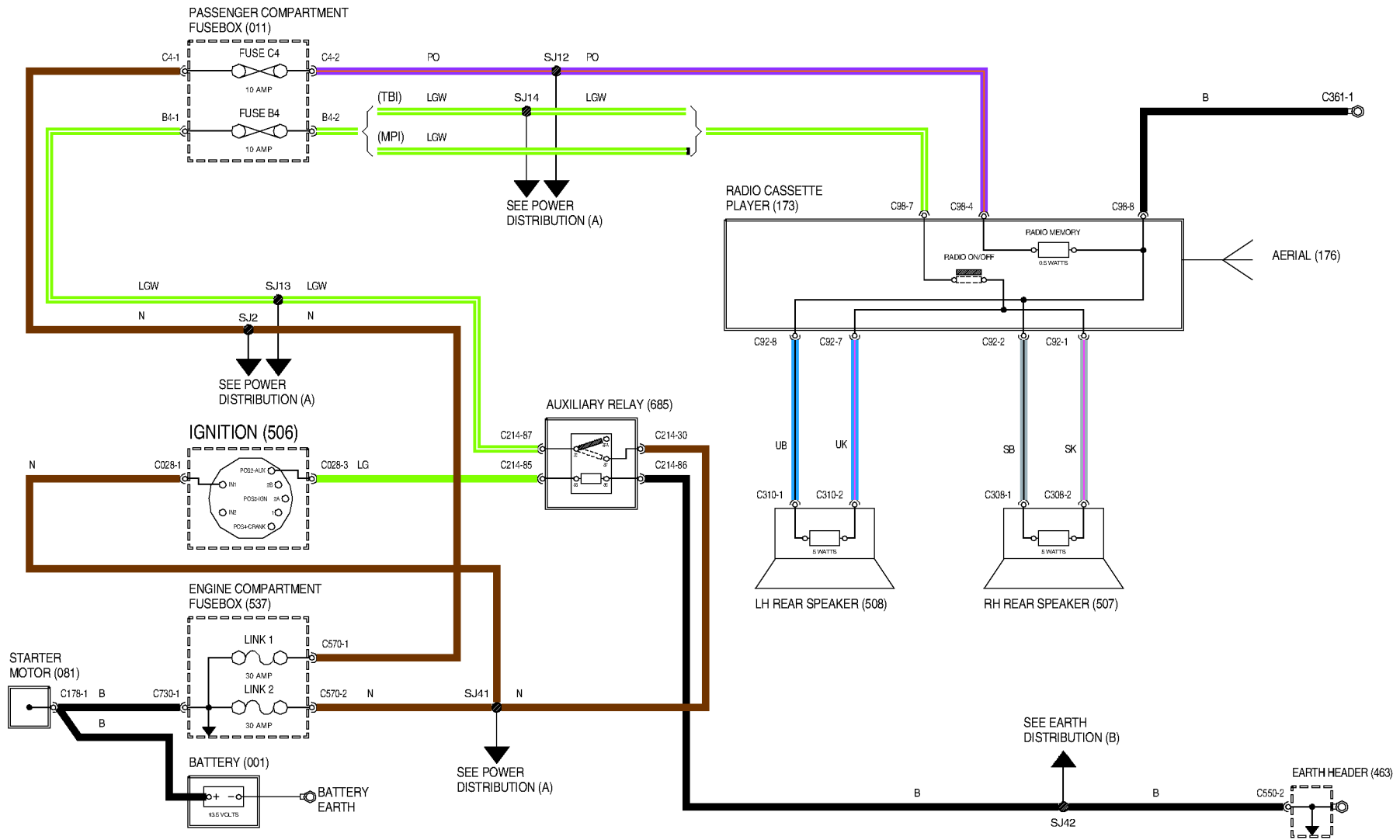


VWR104190-A-01

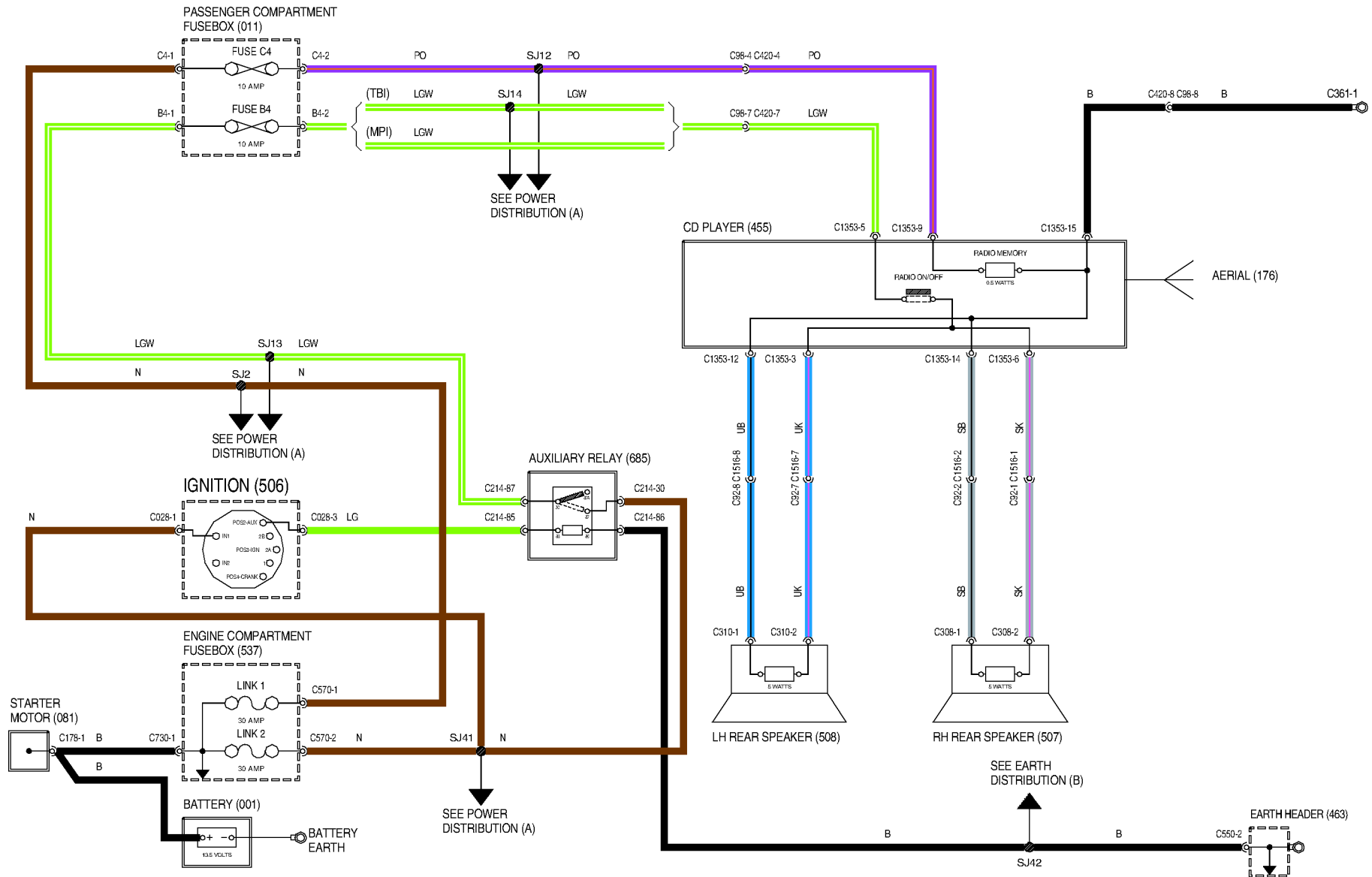
120 INSTRUMENTS



WVR101400-A-01



VWR101380-A-01



VWR116150-A-01