

New Holland LX and Early LS Model Skid Loader, Metal Instrument Panels, Wiring Diagrams

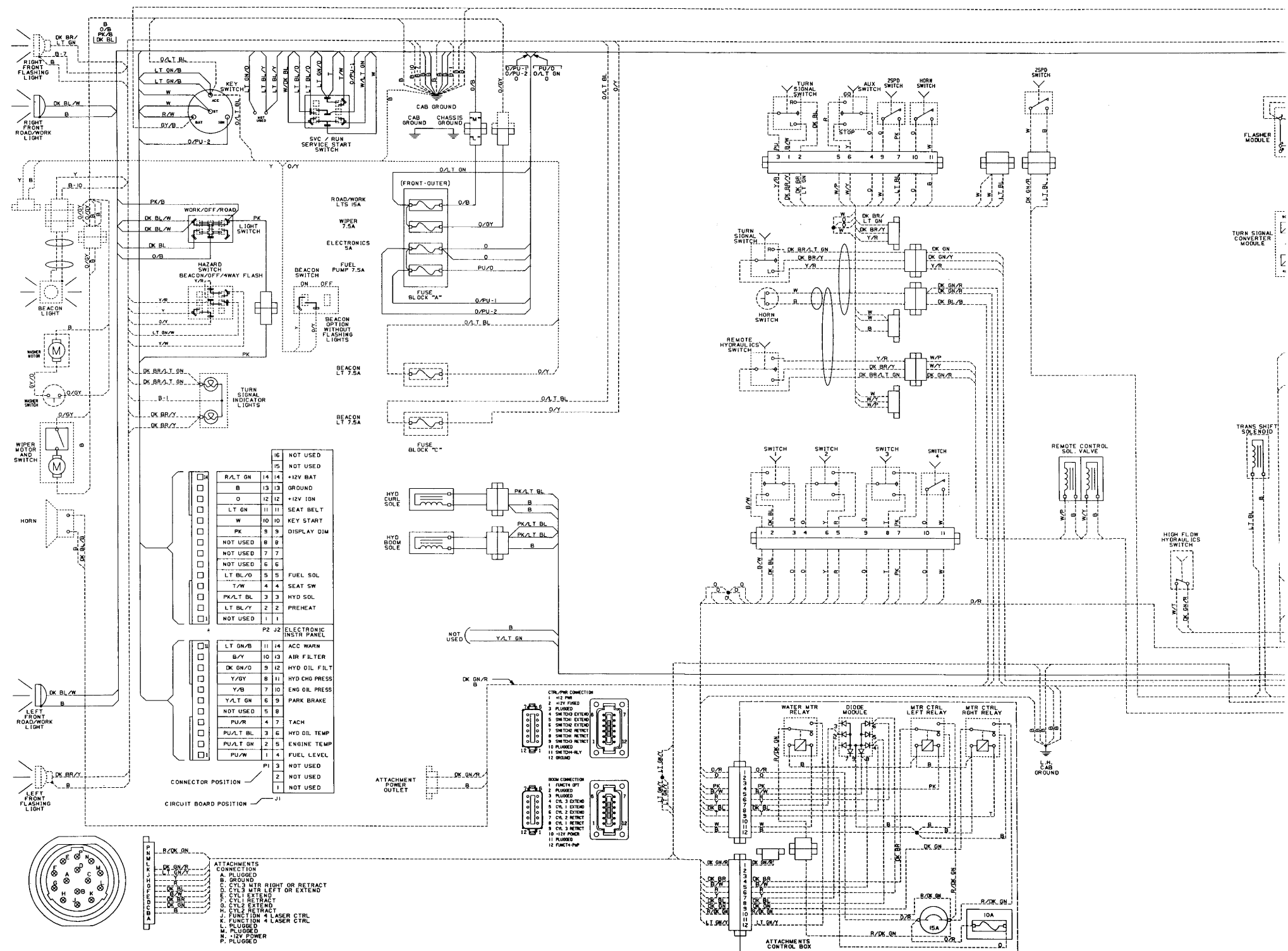
When diagnosing an electrical issue a wiring diagram is indispensable in the troubleshooting of the problem. As the electrical systems get more complicated and more controls are being driven electrically the number of wires needing to be displayed will make following a circuit very difficult. There are many different styles of wiring diagrams, some easier to follow than others. The LS diagrams are not difficult to follow, but I like to isolate and color code different circuits which are involved in a job, like starting the engine. The type of diagram the LS uses does not lend itself to isolating circuits, in this way, since some of the circuits use a common displayed line representing multiple wires.

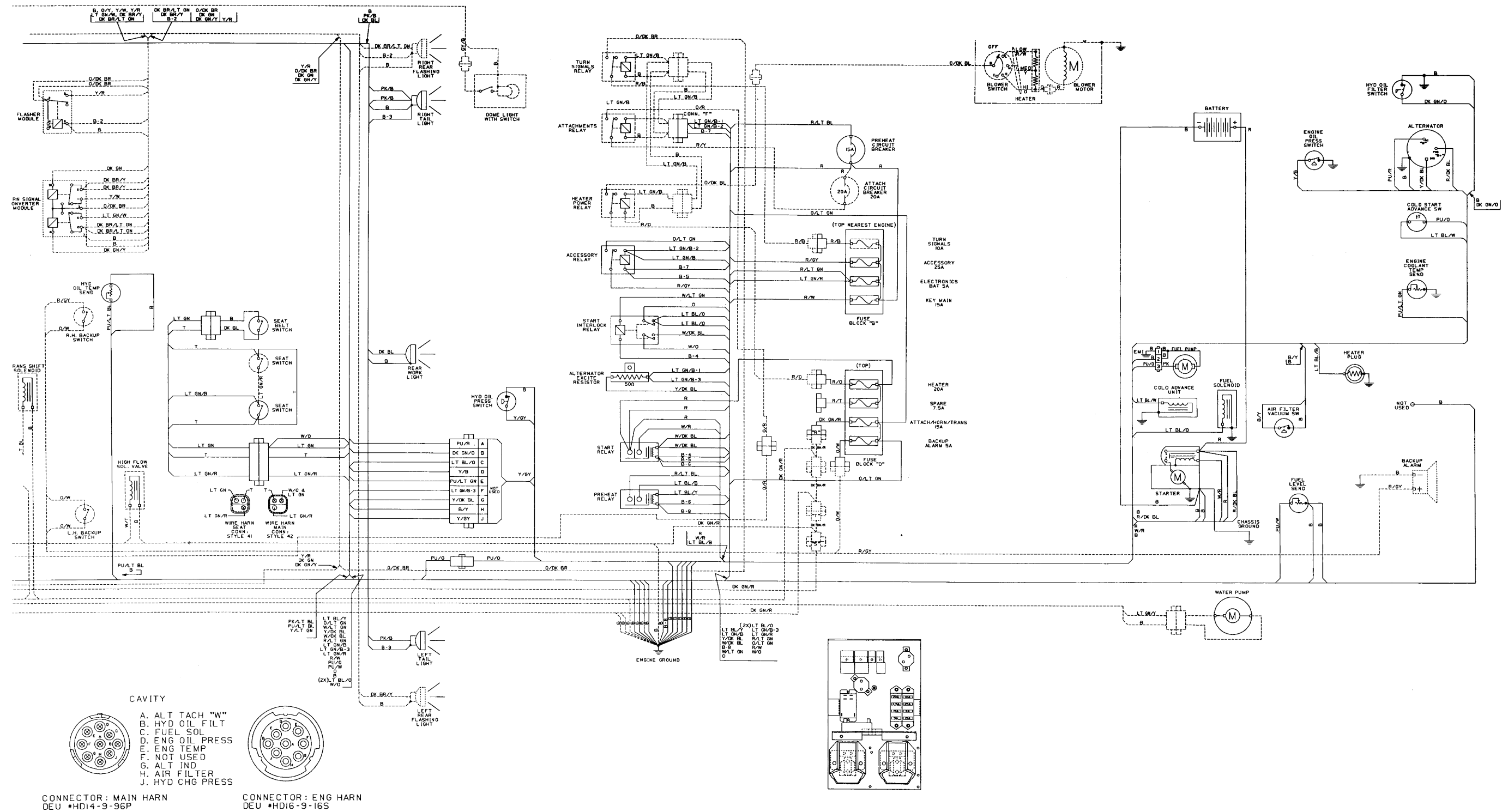
Pages 2 and 3 comprise the wiring diagram as shown in the service manual. Page 3 is a continuation to the right of page 2.

The rest of the pages are diagrams I drew for the starting circuits involved to start the engine. This is the most common issue with the electrical system on the loader. There are two sections to the drawings depending on the position of the service run switch. Both sections follow the same process. First page shows where power is available. The second page shows where power is available when a person is in the seat and the seat belt fastened. The third page of the section shows where power is available when the key is in the on position. The fourth page shows the power flow when the key is in the start position. The final page shows the power to the fuel solenoid after the engine starts and the key is in the on position.

Pages 4 to 8 are the circuits involved in starting the skid loader with the service run switch in the run position. In the run position the foot pedals or hand controls are unlocked so they can be used to operate the boom and bucket circuits.

Pages 9 to 13 are the circuits involved in starting the skid loader with the service run switch in the service position. In the service position the foot or hand controls will remain locked so the boom and bucket cannot be used. While these diagrams show the power from the seat switch and seat belt, they do not have any bearing on the starting of the engine when the service run switch is in the service position.





SERVICE RUN SWITCH IN RUN POSITION

CIRCUIT COLOR CODE

CONSTANT POWER

SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

RUN

KEY POSITION

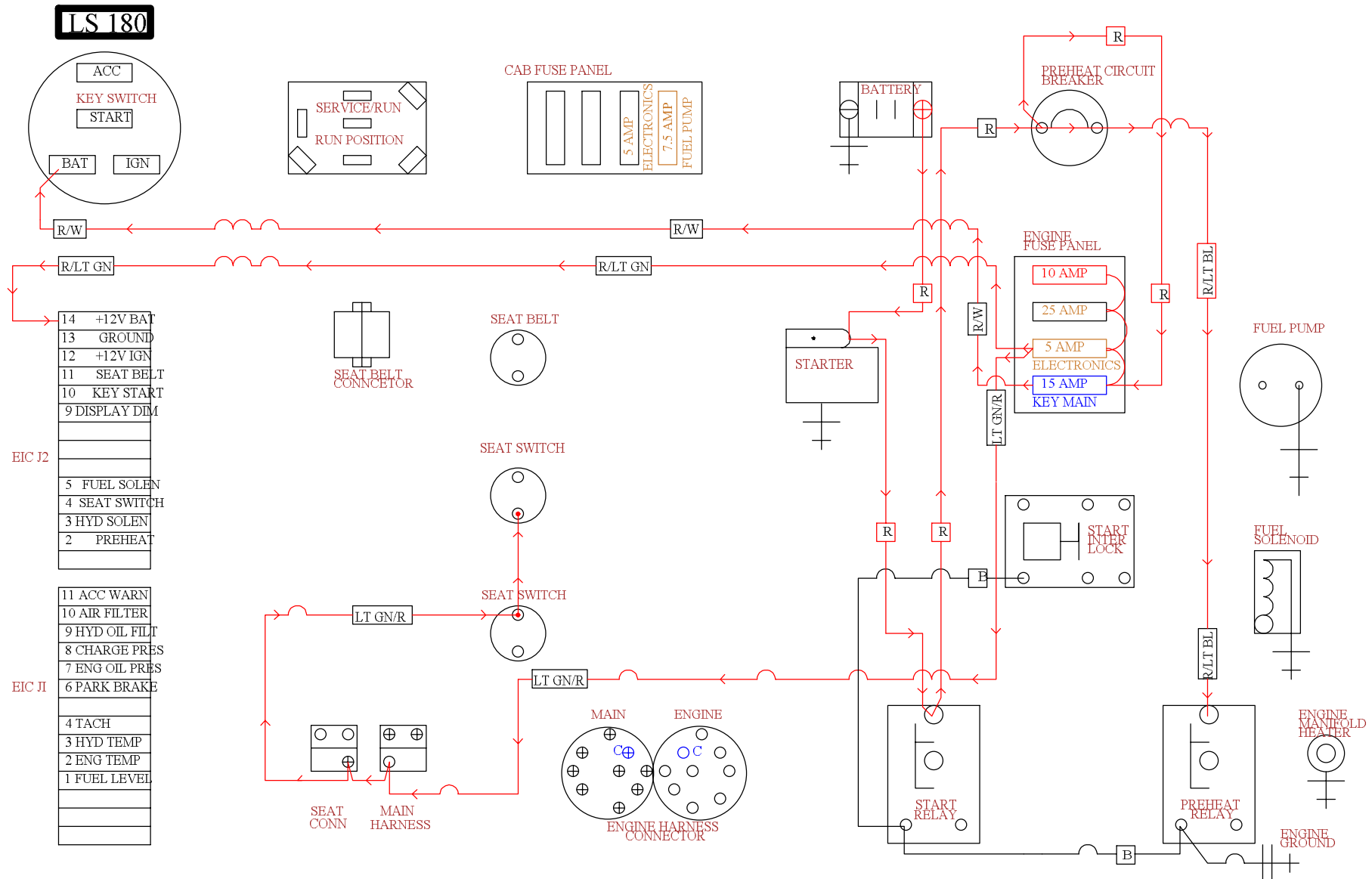
ALL KEY POSITIONS

ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START

ON AFTER START



SERVICE RUN SWITCH IN RUN POSITION

CIRCUIT COLOR CODE

CONSTANT POWER

SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

RUN

KEY POSITION

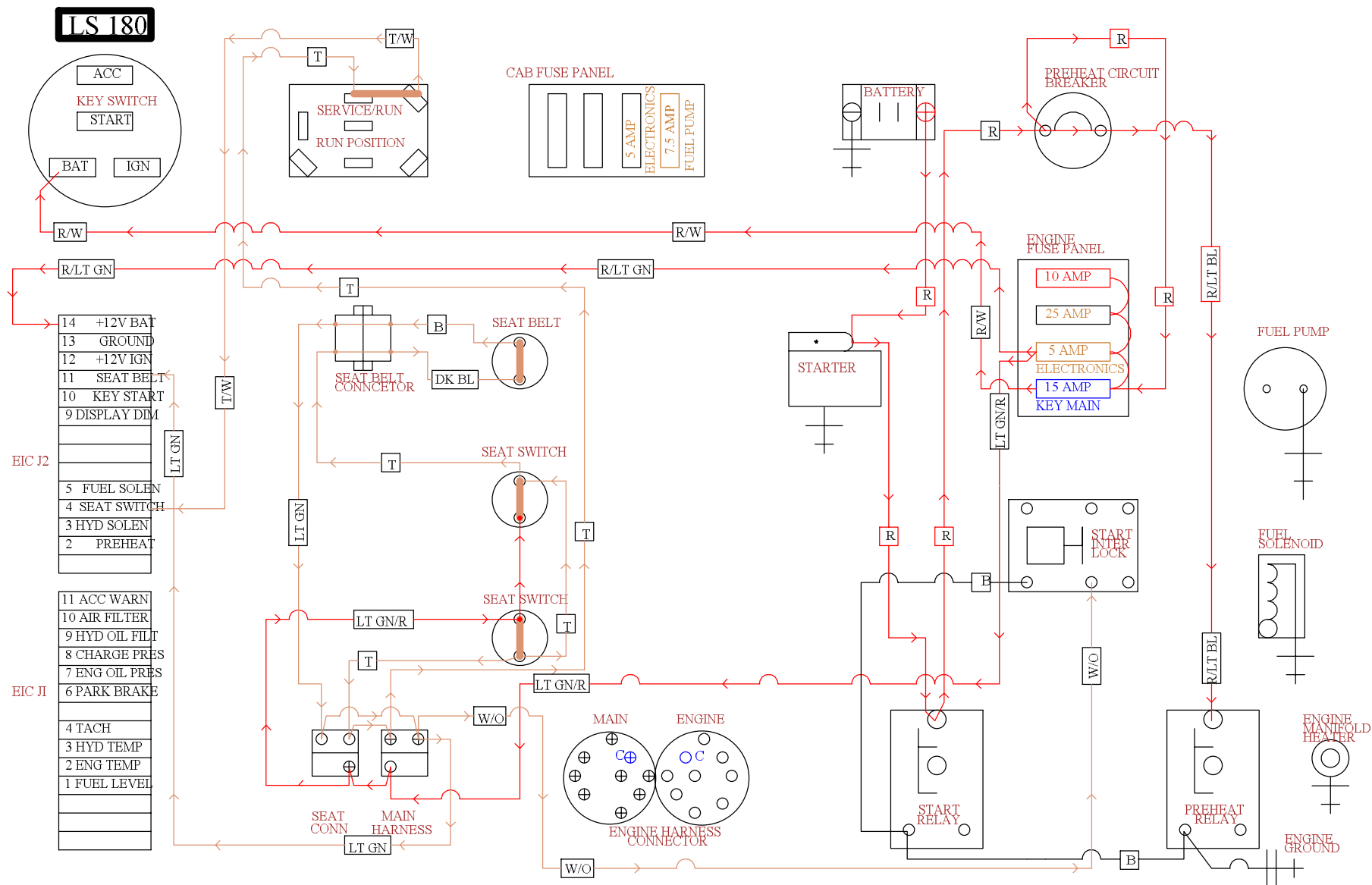
ALL KEY POSITIONS

ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START

ON AFTER START



SERVICE RUN SWITCH IN RUN POSITION

CIRCUIT COLOR CODE

CONSTANT POWER

SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

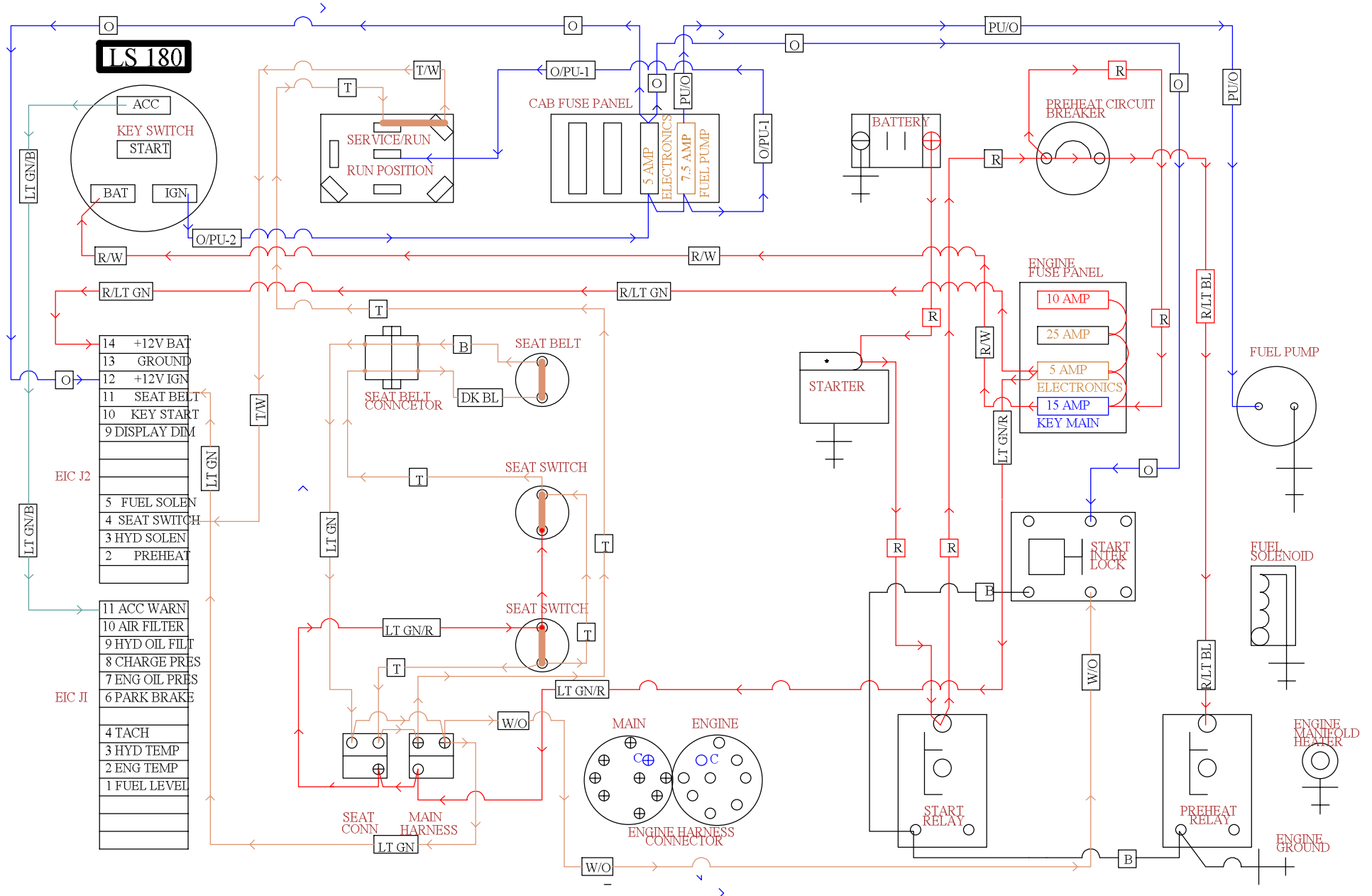
KEY POSITION

ALL KEY POSITIONS

ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START



SERVICE RUN SWITCH IN RUN POSITION

CIRCUIT COLOR CODE

CONSTANT POWER

SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

RUN

KEY POSITION

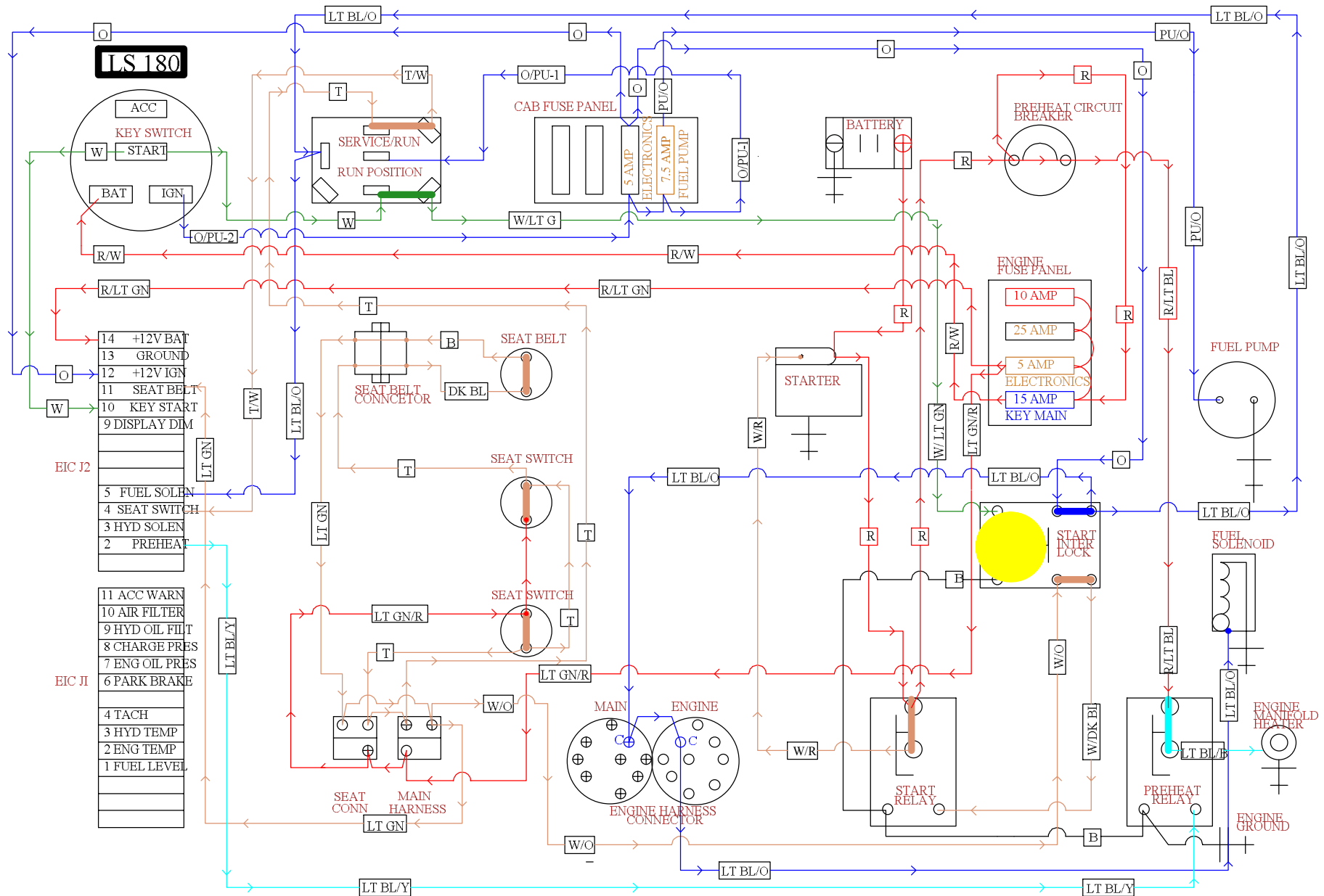
ALL KEY POSITIONS

ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START

ON AFTER START



SERVICE RUN SWITCH IN RUN POSITION

CIRCUIT COLOR CODE

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SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

RUN

KEY POSITION

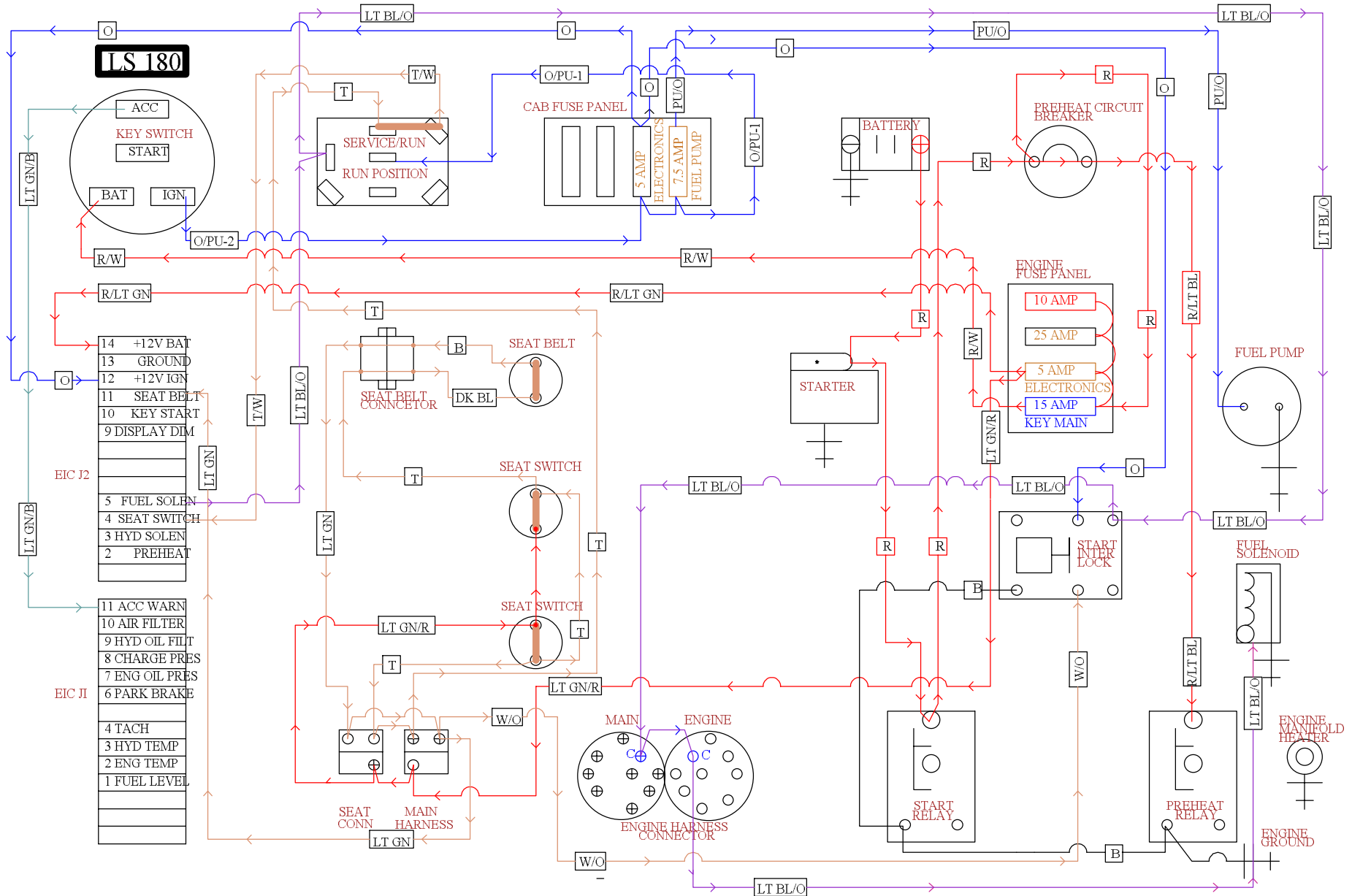
ALL KEY POSITIONS

ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START

ON AFTER START



SERVICE RUN SWITCH IN SERVICE POSITION

CIRCUIT COLOR CODE

CONSTANT POWER

SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

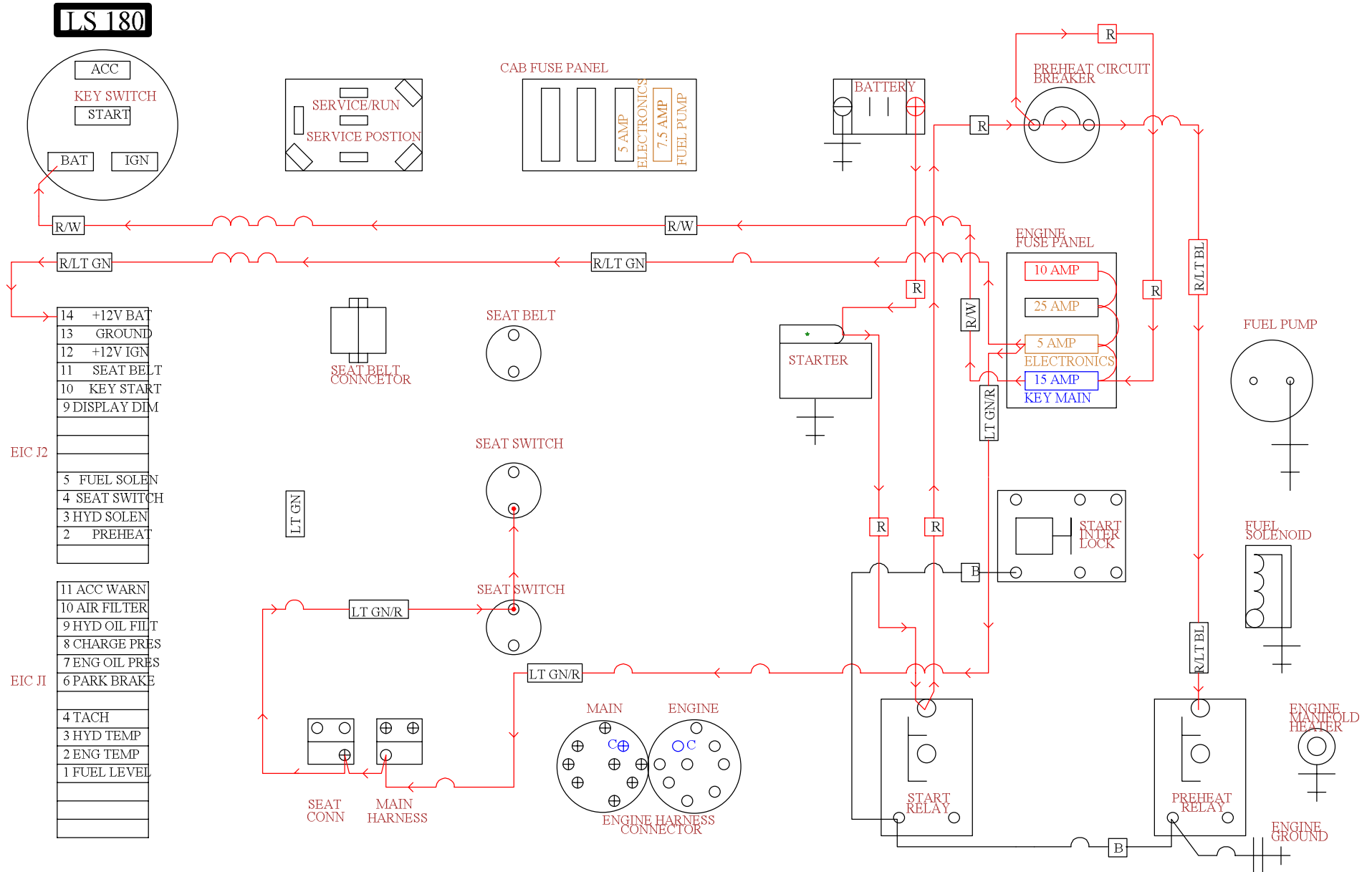
KEY POSITION

ALL KEY POSITIONS

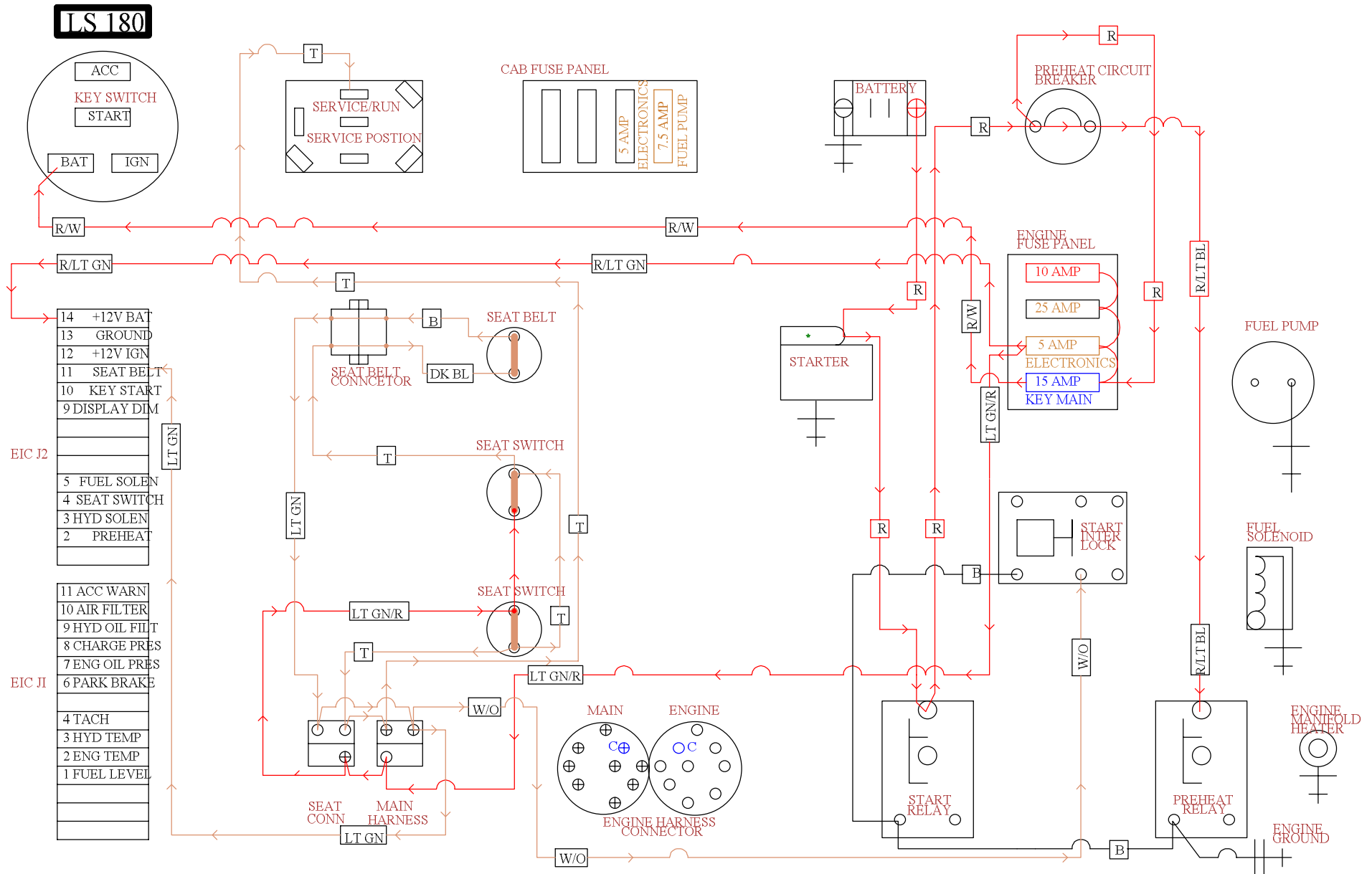
ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START



START



SERVICE RUN SWITCH IN SERVICE POSITION

CIRCUIT COLOR CODE

CONSTANT POWER

SEAT & SEAT BELT SWITCH POWER

IGNITION POWER

START POWER

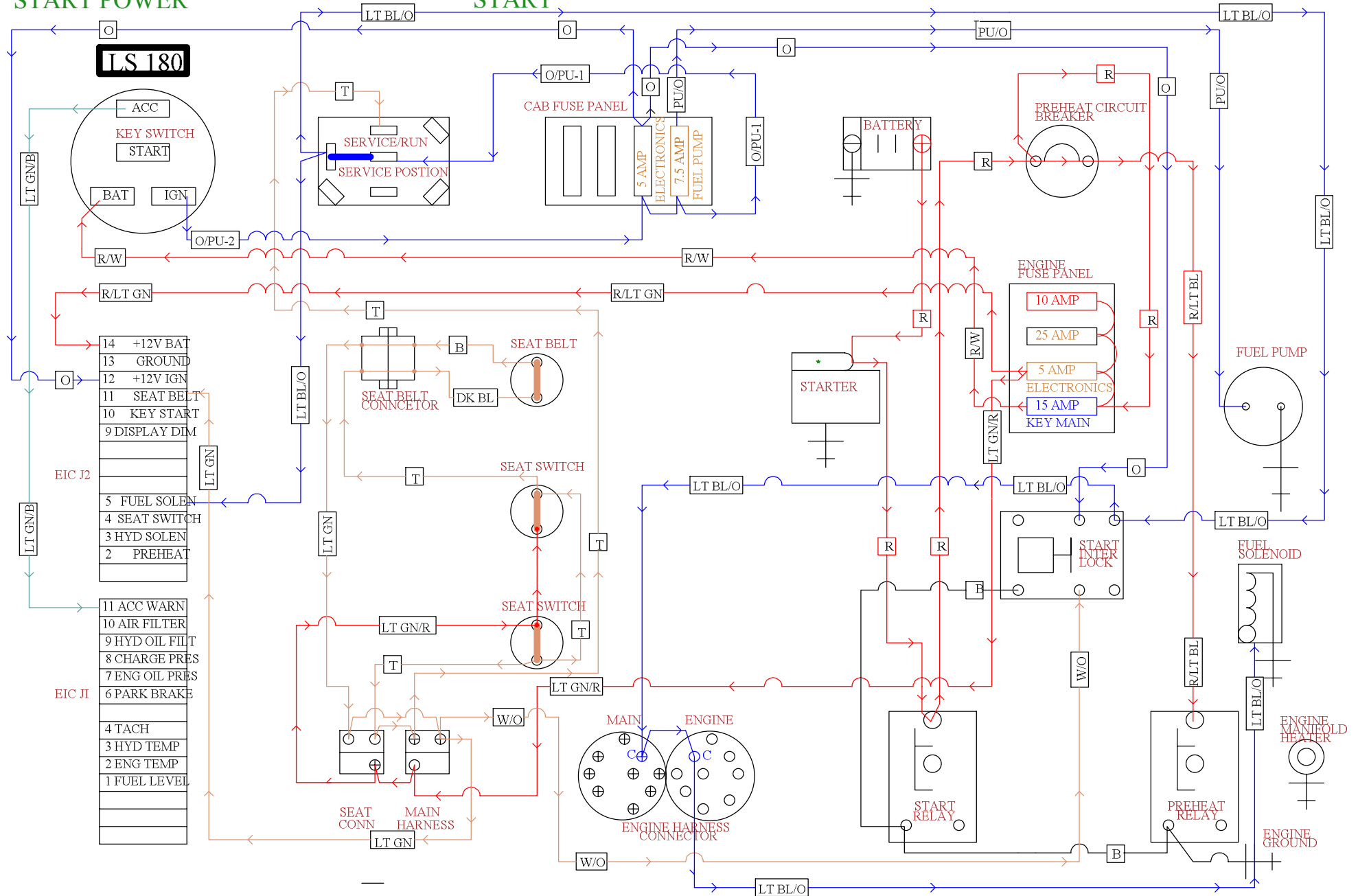
KEY POSITION

ALL KEY POSITIONS

ALL KEY POSITIONS WHEN IN SEAT AND BELT FASTENED

ON/START/RUN

START



SERVICE RUN SWITCH IN SERVICE POSITION

CIRCUIT COLOR CODE

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START POWER

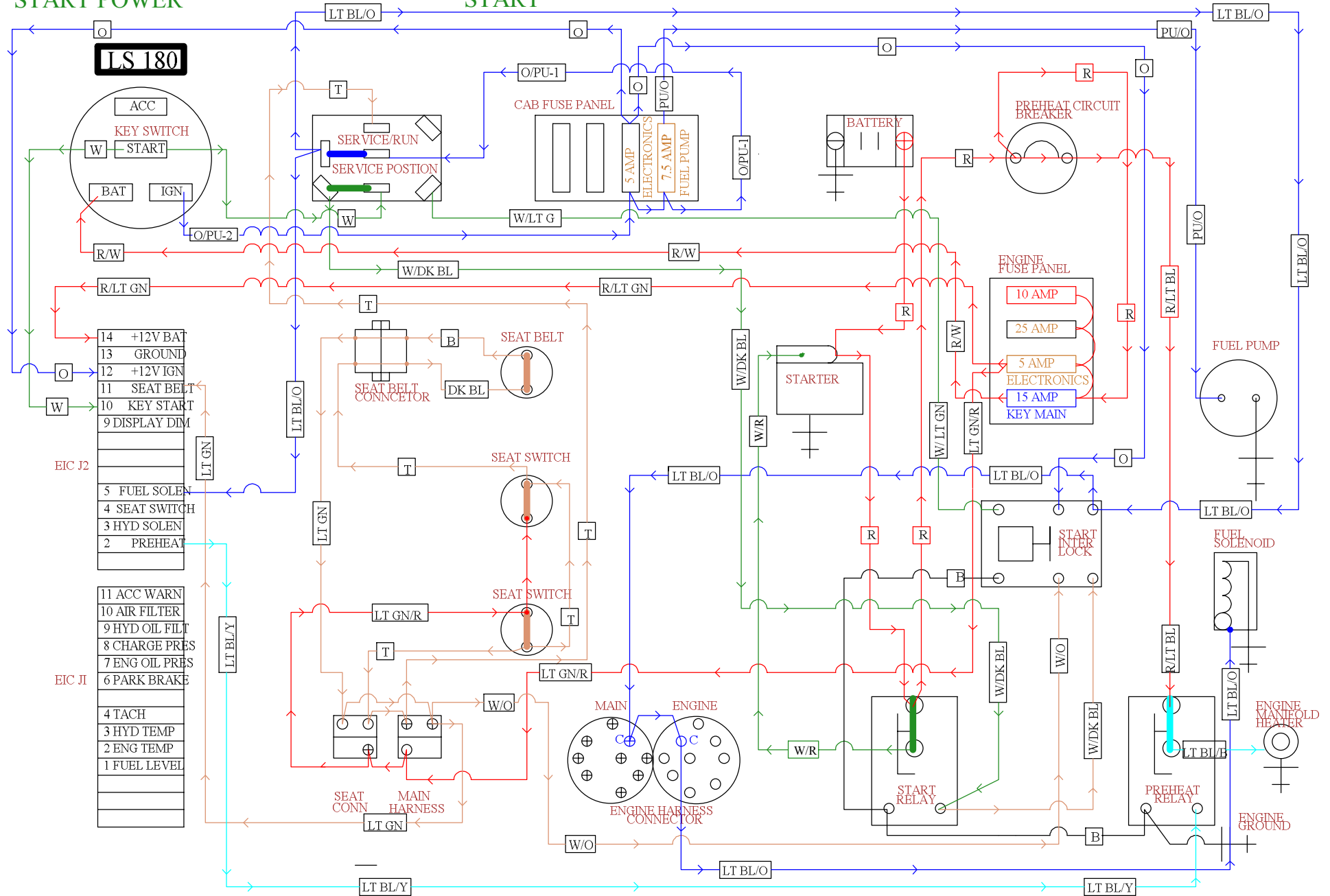
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