

■ CLASS DISCUSSION ITEM 2.1

Proper Car Jump Start

Draw an equivalent circuit illustrating the proper way to connect jumper cables between two car batteries when trying to jump-start a car with a run-down battery. Be sure to label both the positive and negative terminals on each battery and the red and black cables of the jumper.

It is recommended that the last connection you make should be between the black jumper cable and the run-down car; and instead of connecting it to the negative terminal of the battery, you should connect it to the frame of the car at a point away from the battery. What is the rationale for this advice? Does it matter in what order the connections are removed when you have started the car?