

Using the Vd Chart Example

Voltage Drop Across a Mini Fuse

Measurement mV	Mini 5 Amp	Mini 7.5 Amp	Mini 10 Amp	Mini 15 Amp	Mini 20 Amp	Mini 25 Amp
0.1	6	10	14	22	29	40
0.2	12	20	28	44	57	80
0.3	18	30	43	67	86	120
0.4	24	40	57	89	114	160
0.5	30	50	71	111	143	200
0.6	36	60	85	133	171	240
0.7	42	70	99	156	200	280
0.8	48	80	111	178	229	320
0.9	54	90	128	200	257	360
1	60	100	142	222	286	400
1.1	66	110	156	244	314	440

This is only an example of using the chart and does not pertain to our test readings. The specification charts for Vd across a fuse are in the back of the student manual. The values in these charts are based on a fully charged battery (12.6 V)

In this example, we are testing a 15 amp mini fuse. The voltage drop across the fuse is 0.8 mV. This is only an example and has nothing to do with the values we measured on our test vehicle.

To use the Voltage Drop Across a Fuse chart:

1. Select the fuse rating. This is the rating stamped on the fuse being tested.
2. Perform a voltage drop test across the fuse and record the reading
3. Find the Vd value in the "Measurement mV" column.
4. Locate the intersecting cell of the column and row
5. This is the current draw through the fuse in milliamps (mA). If the value is 178, the draw is 178 mA or 0.178 amps

This chart is not all inclusive, the voltage drop measurements range from 0.1 mV to 10 mV. However, if a technician has a reading of, let's say 27.0 mV during the Vd test, he would simply take the 2.7 mV value and multiply by 10. Although not exact, the values will be very close.