



Operating Instructions
PowerSensor®105™
 Digital Battery Meter
 For 6 or 12 Volt cranking
 batteries

CONVERSION TABLE

SAE	EN	IEC	DIN	JIS	SAE	JIS	SAE
155	145	100	90	26A17	225	55D26	348
200	180	130	110	26A19	201	65D26	413
250	230	160	140	28A19	248	75D26	490
300	280	195	170	32A19	294	80D26	582
350	330	225	200	26B17	225	65D31	389
400	360	260	225	28B17	246	75D31	447
450	420	290	255	34B17	279	95D31	622
500	480	325	280	28B19	247	95E41	512
550	520	355	310	34B19	272	105E41	577
600	540	390	335	36B20	274	115E41	651
650	600	420	365	38B20	332	130E41	799
700	640	450	395	46B24	325	115F51	638
750	680	485	420	50B24	390	145F51	780
800	760	515	450	55B24	433	150F51	916
850	790	550	480	32C24	238	170F51	1045
900	860	580	505	50D20	306	145G51	754
950	900	615	535	55D23	356	165G51	933
1000	940	645	560	65D23	420	180G51	1090
1050	1000	680	590	70D23	490	195G51	1146
1100	1040	710	620	75D23	520	190H52	924
1150	1080	745	645	48D26	278	245H52	1532
1200	1150	775	675				
1250	1170	810	700				
1300	1220	840	730				
1350	1270	870	760				
1400	1320	905	790				
1450	1360	935	815				
1500	1410	975	820				
1540	1450	1000	870				



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Operating Instructions

- Clean battery terminals with a wire brush before beginning.
- Connect red clamp to positive (+) terminal.
- Connect black clamp to negative (-) terminal.
- To ensure a proper connection, rock the clamps back and forth. The meter requires both sides of the clamp to be firmly connected prior to taking measurements. A poor connection will prevent measurements and a **CHECK CONNECTION** message will appear. If this occurs, clean the terminals and reconnect.
- The meter will display the voltage and available power. If the voltage is below 12.4 volts, recharge the battery. If the cranking power is below its rating, recharge until it reaches its rating.
- If a bad cell is detected within the battery, the message **BAD CELL** will be displayed. Replace the battery.

TESTING IN THE VEHICLE

- Turn on the highbeam headlights for one minute to remove the battery's surface charge, then wait at least one minute to allow the voltage to recover before starting the procedure.
- Make sure all vehicle accessory loads are off and the ignition is in the off position.
- If the **SYSTEM NOISE** message appears, make sure all vehicle accessory loads are off and the ignition switch is in the off position. Retest.

If the **SYSTEM NOISE** message continues after several measurement attempts, disconnect the battery cables and retest.

TROUBLESHOOTING

If the display does not illuminate:

- Check connection to the battery.
- Battery may be too low to power the meter (below 5.5 volts). Fully charge the battery and retake measurements.

If the meter displays the SYSTEM NOISE message when the battery is not connected to the vehicle:

- You may be testing too close to a source of noise i.e., a charger or other high-current device. If so, move away and retake measurements.
- If no source of noise is identified, fully charge the battery and retest. If the message appears after charging, replace the battery.

Patents

This product is developed in the U.S.A. by MIDTRONICS, INC. and is protected by patents in the U.S., Canada, United Kingdom, and Germany. Additional patents may be pending. This product may utilize technology exclusively licensed to Midtronics, Inc. by Johnson Controls, Inc. and/or Motorola, Inc.

Limited Warranty

This tester is warranted to be free of defects in materials and workmanship for a period of one year from date of purchase. Midtronics will repair or replace unit with a remanufactured unit. This limited warranty applies only to the **PowerSensor105** battery tester, and does not cover any other equipment, static damage, water damage, over-voltage damage, dropping unit, or damage resulting from extraneous causes including owner misuse. Midtronics is not liable for any incidental or consequential damages for breach of this warranty. The warranty is void if owner attempts to disassemble the unit, or to modify the cable assembly. To obtain service, purchaser should return the unit, with proof of purchase showing date purchased, to place of purchase or to one of the following addresses.