

TROUBLE (cont.)	PROBABLE CAUSE	REMEDY
Ammeter reads excess current over entire cycle.	-One De-Icer Boot element (or wiring connections to De-Icer) in each cycle open.	Perform a heat test on each De-Icer. Turn De-Icer switch ON, and, after locating the De-Icer section being heated, follow the heating cycle, feeling each section for heating in turn. Replace defective components.
Ammeter reads normal current part of cycle, excess current rest of cycle.(24-0001 thru 24-2999) (12V)	<p data-bbox="602 338 1003 368">-Power lead shorted to ground.</p> <p data-bbox="602 741 1003 772">-Ammeter faulty.</p> <p data-bbox="602 788 1003 874">-Short to ground or short between adjacent circuits, timer to brush block.</p> <p data-bbox="602 963 1003 1030">-Short to ground or between adjacent timer circuits in brush block.</p> <p data-bbox="602 1064 1003 1145">-Short to propeller or short between two adjacent circuits - slip rings to De-Icers.</p>	<p data-bbox="1057 338 1544 560">Check power leads from ammeter to timer and then to De-Icers for evidence of damage or arcing. With de-icing system switch OFF and timer harness disconnected, check insulation resistance (use "Megger") to ground from timer harness Pin B, 12V, Terminal C, 24V.</p> <p data-bbox="1057 560 1544 721">Disconnect harness at brush assembly and repeat check for applicable brush assembly harness connections. (See wiring schematic Section 30-60-01). If ground is indicated, locate and correct it.</p> <p data-bbox="1057 741 1544 772">Test ammeter per Section 30-62-00.</p> <p data-bbox="1057 788 1544 943">Disconnect leads at brush assembly and timer. With "Megger", check insulation resistance from power leads to ground and between adjacent circuits. If ground or short is indicated, locate and correct.</p> <p data-bbox="1057 963 1544 1044">Electrically isolate brush assembly and test per Section 4-6, B.F. Goodrich Report No. 68-04-712B.</p>
Ammeter does not "cycle" each 90 seconds.	<p data-bbox="602 1433 1003 1463">-Timer faulty.</p> <p data-bbox="602 1479 1003 1540">-Timer ground open; timer not cycling.</p> <p data-bbox="602 1574 1003 1661">-Timer contacts welded together (caused by short in electrical system).</p>	<p data-bbox="1057 1433 1544 1463">Test timer per Section 30-63-00.</p> <p data-bbox="1057 1479 1544 1560">Disconnect harness at timer and check ground connection with ohmmeter from Pin A, 12V; Terminal G, 24V.</p> <p data-bbox="1057 1574 1544 1681">Test timer per Section 30-63-00. If timer is faulty, repair or replace it but insure that short causing original failure has been located and corrected.</p>
Ammeter flicks between 90 second phase periods.	-Loose connection between aircraft power supply and timer input.	Trace wiring from power source to timer input. Insure that good electrical contacts are made at each connection in circuit.