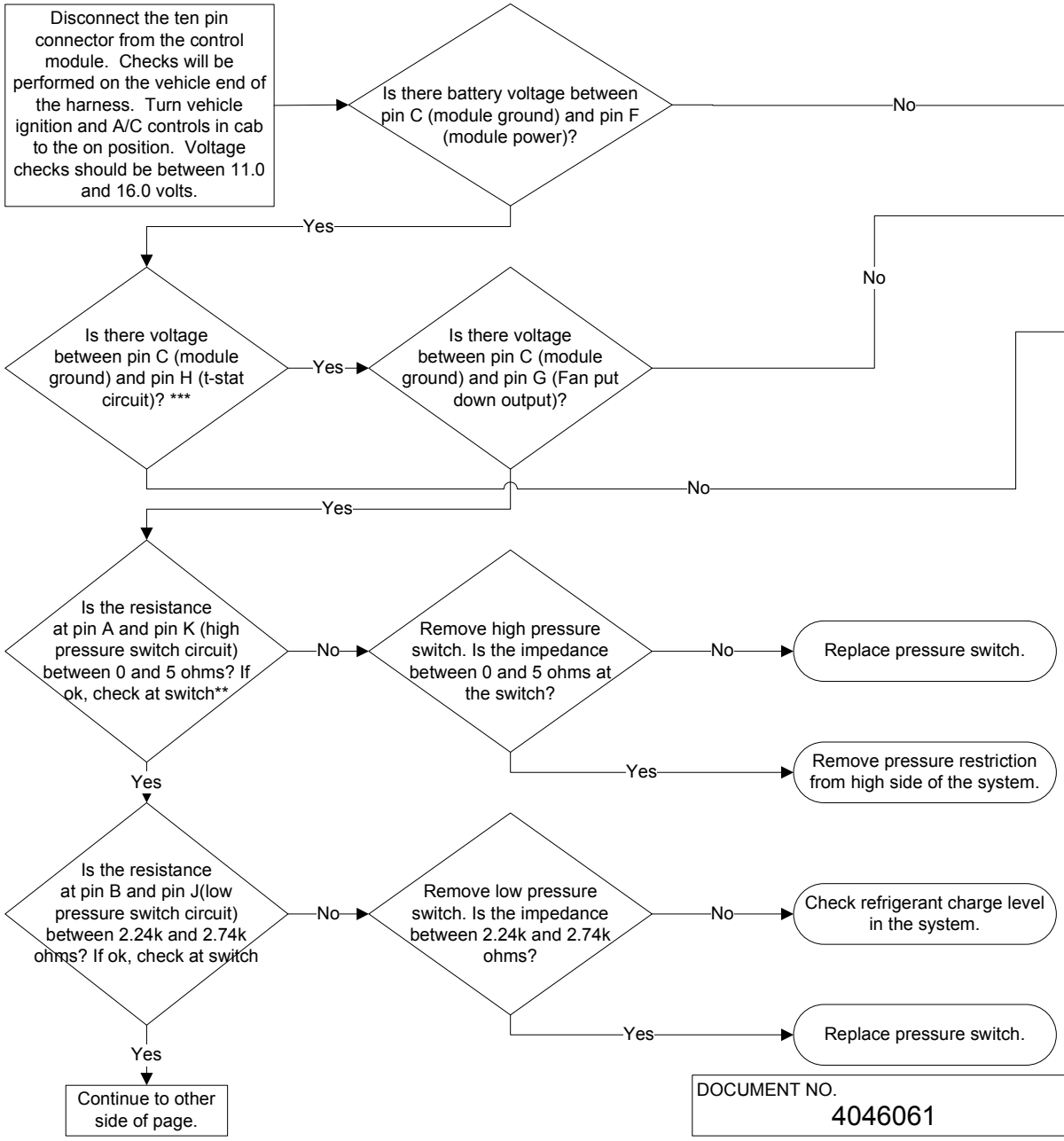
VOLVO CM-814 AIR CONDITIONING TROUBLESHOOTING FLOW CHART



*** Start delay, compressor lubrication cycle.**

- The A/C compressor is held off for the first 15 seconds after ignition switch engagement (module power up).
- After start delay the A/C compressor is turned on for 15 seconds if the high pressure state, low pressure switch state, clutch state and system voltage is correct.
- **Note:** The T-stat input is ignored during this period.

**** High pressure switch note:**

If system is exhibiting abnormal high head pressure and/or the pressure relief valve on the A/C compressor is being blown open, first verify no restriction or blockage is present on the high side of the system, if no restriction is present replace high pressure switch. This is a indication of the high pressure switch not opening when pressure rises above 300PSI.

Note: Pressure differential can be up to 5-PSI lower per foot from compressor to high pressure switch.

***** Thermostatic (t-stat) switch note:**

If a t-stat fails in the closed position the compressor clutch will run continuously and the evaporator will freeze up.

****** ECM fan output**

Pin G is the ECM fan output. Voltage should read between 5 and 12 volts. With the ignition in the off position, jumper pin C to pin G. Turn the vehicle on, if the engine fan is engaged the problem is not in the control module. If the engine fan is not engaged, inspect proper operation of solenoid valve, relay, fan blades and/or related components. If all components check good, replace the control module.

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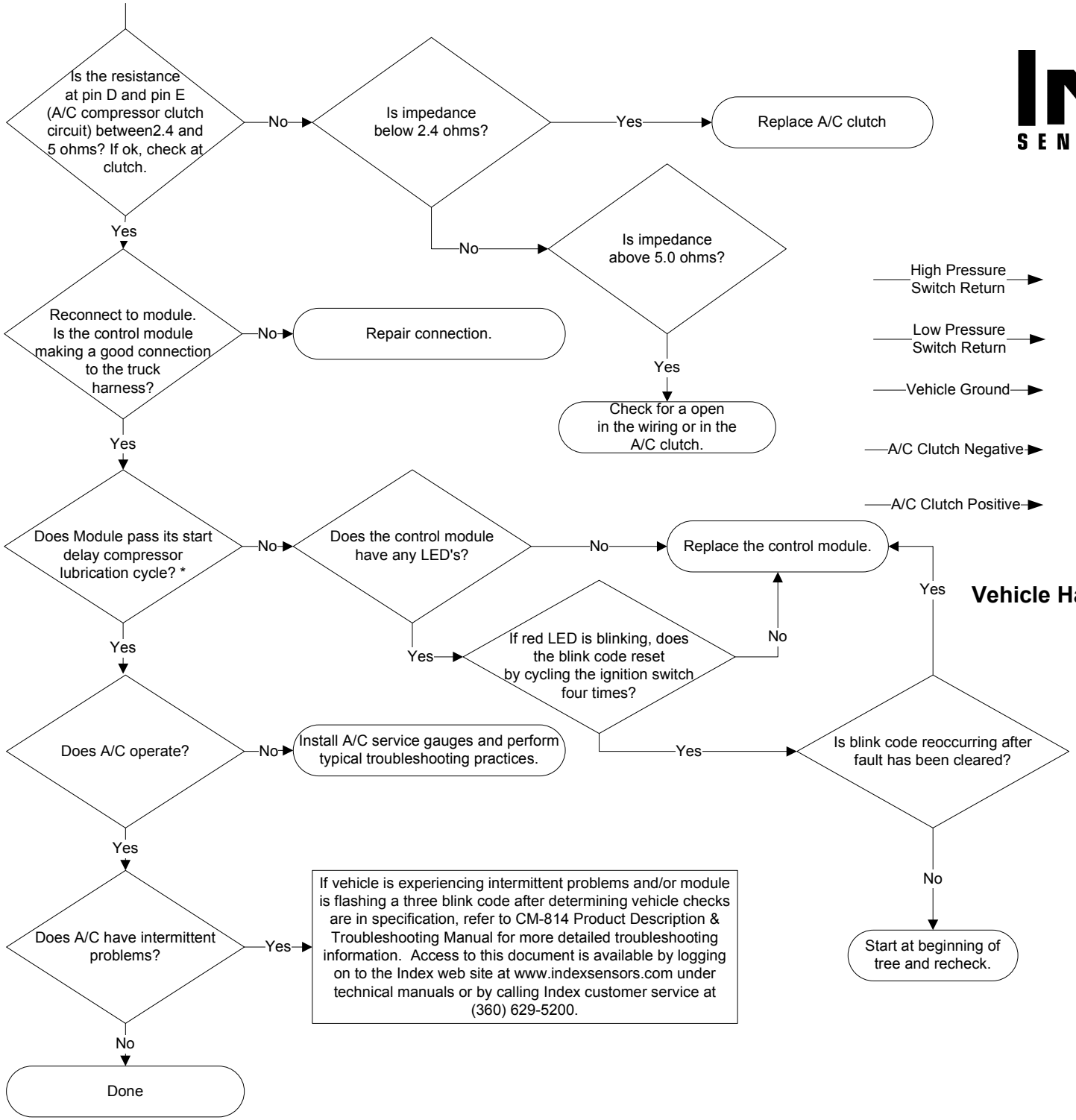
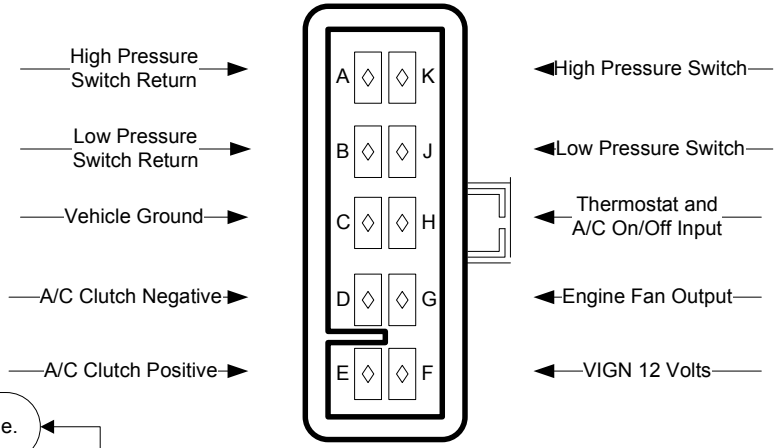


INDEX SENSORS & CONTROLS



Vehicle Harness Connector Pin Out