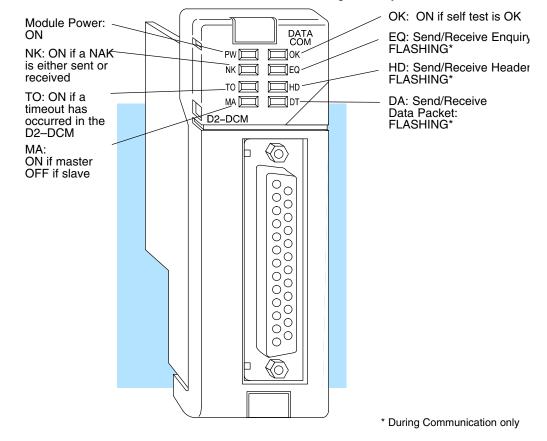
Verification and Troubleshooting

If you have used the guidelines shown previously in Step 3, Starting the Network, you are now ready to verify that the unit is operating properly. Check the D2–DCM indicators to verify the D2–DCM is operating correctly. The following diagram shows the proper indicator conditions.

Note: Online/Offline switch has been removed from the drawing for clarity.



Troubleshooting Quick Steps

If the D2–DCM does not seem to be working correctly, check the following items. These items represent the problems found most often.

- 1. Cable and connections. Incorrectly wired cables and loose connectors cause the majority of problems. Verify you've selected the proper cable configuration and check the cable making sure it is wired correctly.
- 2. Dipswitch settings. Make sure you've set the D2–DCM to match the communication parameters required by the master station (D2–DCM, operator interface or host computer).
- 3. Incorrect protocol. Make sure your operator interface or personal computer software can use the *Direct*NET, Hostlink, CCM2, or MODBUS® RTU protocol.
- 4. Communications program. Check the communications program for errors. Consult the *Direct*NET Manual or the manuals that came with your host computer software or operator interface for details.



NOTE: If you need more in depth troubleshooting, see the chart on the next page. It provides several different indicator patterns that may help identify your exact problem.

Troubleshooting Chart off on flash action for a wide variety of commonly found problems.

Maste	r Station Indicators	Slave Station Indicators	Possible Cause
PW OK NK EQ TO HD MA DT	Power or OK is off.	PW OK NK E EQ TO E HD MA D DT	1.Master PLC power is disconnected 2.D2–DCM is defective
PW OK NK EQ TO HD MA DT	Power and OK are on. Master indicator is off.	PW OK NK E EQ TO HD MA D DT	Switch setting on master station is incorrect
PW OK NK EQ TO HD MA DT	Power, OK, and MA are on. EQ does not come on when the communications program is executed.	PW OK NK E EQ TO HD MA D DT	1.The master station CPU not in RUN. 2.Online/Offline switch is set to OFF. 3.Communications program is not correct.
PW OK NK EQ TO HD MA DT	Power, OK, and MA are on. EQ stays on, but NK, TO, or HD indicators do not come on at all.	PW OK NK E EQ TO HD MA DT	1.COM Timeout is disabled. 2.RTS and CTS signals are not looped back on the D2–DCM end of the cable.
PW OK NK EQ TO HD MA DT	Power, OK, and MA are on. EQ stays on, and TO flashes.	PW OK PW OK NK EQ NK EQ TO HD TO HD MA DT MA DT Only PW and OK OR EQ flashes.	incorrect. 2.Settings are different.
PW C C C C C C C C C C C C C C C C C C C	Power, OK, and MA are on. EQ stays on, and NK flashes.	PW OK PW OK NK EQ NK EQ TO HD TO HD MA DDT EQ & NK come on OR EQ and HD	3.Cable problem. 1.Settings are different. 2.Cable problem or Slave is offline.
PW	Power, OK, and MA are on. EQ and HD come on. TO flashes.	Flash. PW OK NK DEQ TO DT EQ & HD come on	1.Settings are different.
PW OK NK DEQ TO DEQ MA DEQ DT	Power, OK, and MA are on. EQ and HD come on. EQ goes off. HD stays on, and NK flashes or stays on.	PW OK PW OK NK EQ NK EQ TO HD TO HD MA DT MA DT EQ & HD come on THEN EQ goes off, HD and NK are on	1.RLL Communications program is incorrect.2.Settings are different.
PW OK NK EQ TO HD MA DT	Power, OK, and MA are on. DT is on, but NK flashes on occasion.	PW OK NK E EQ TO HD MA DT	1.Electrical noise.

