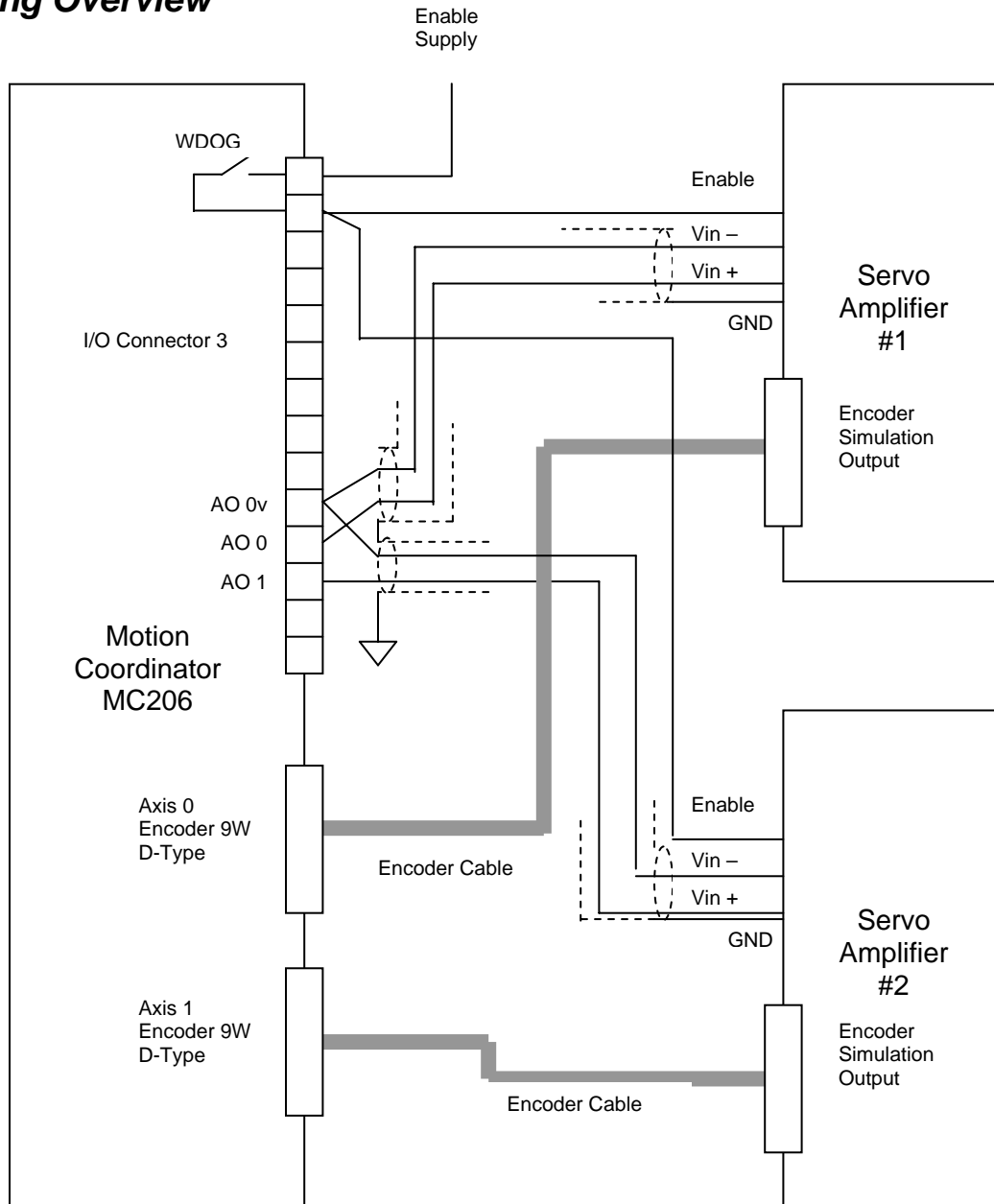


# Motion Coordinator Application Note

Number:MC-1020, Revision 1, 2/28/2007  
Subject: Wiring MC206X series controllers

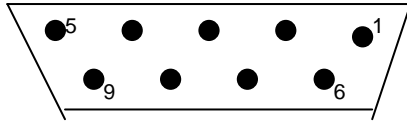
## 1. Wiring Overview



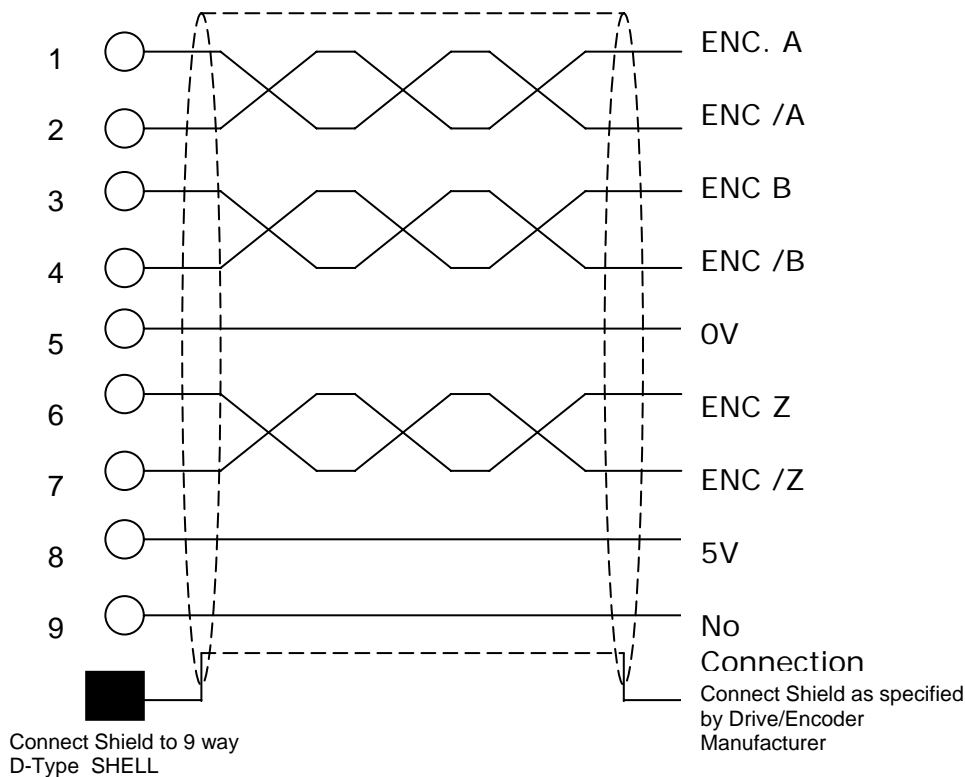
# Motion Coordinator Application Note

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## 2. Encoder Input Wiring



9 Way D-Type Socket.  
(See Manual for location)



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## Notes:

1. All Encoder signals are RS422 Differential. High impedance line receiver fitted in MC206.
2. Pin 5 0V **MUST be connected**. High levels of common mode voltage can cause damage to the encoder input circuit.
3. 0V return lines and shields must be connected separately. Shields are terminated at the D-Type connector shell or to the Earth Ground pin of the 5 way CANbus/Power connector.
4. Pin 8, 5V output is provided to power external encoders. The maximum current must not exceed 150mA total for all 4 encoder input channels.
5. Refer to the Motion Coordinator Technical Reference Manual (Version 6) for full details of the connections to your MC206. Especially pages 2-25, 2-27 and 2-28.
6. For axis 1 to operate, the Feature Enable Code must be installed via Motion Perfect.