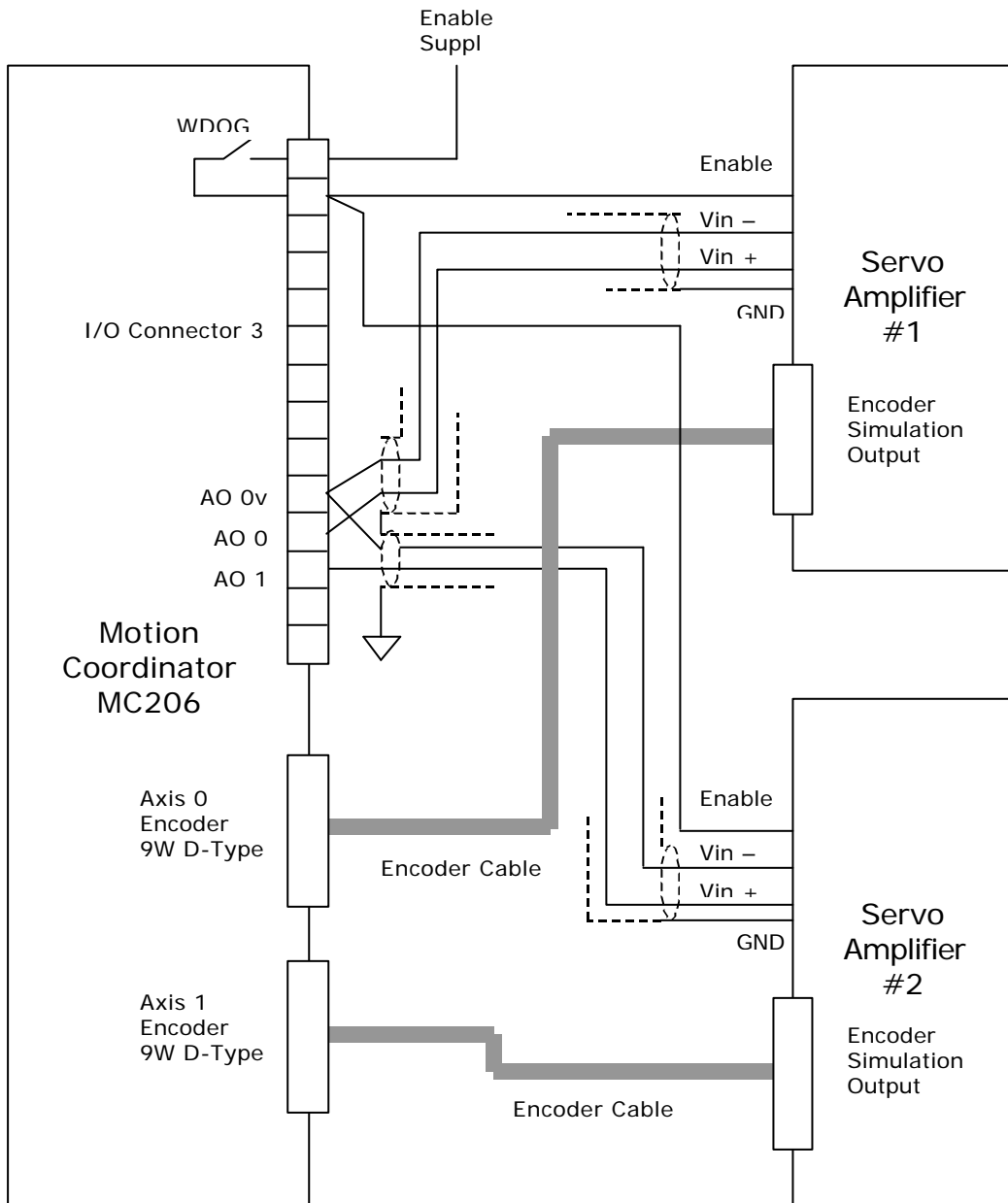


Doc No.: TN20-40  
 Version: 1.1  
 Date: 27<sup>th</sup> November 2001  
 Subject: Wiring MC206 – 2 Servo axes

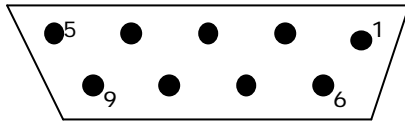
1000 Gamma Drive  
 Suite 206  
 Pittsburgh, PA 15238  
 Ph: +1 412.968.9744  
 Fx: +1 412.968.9746

## Application Note

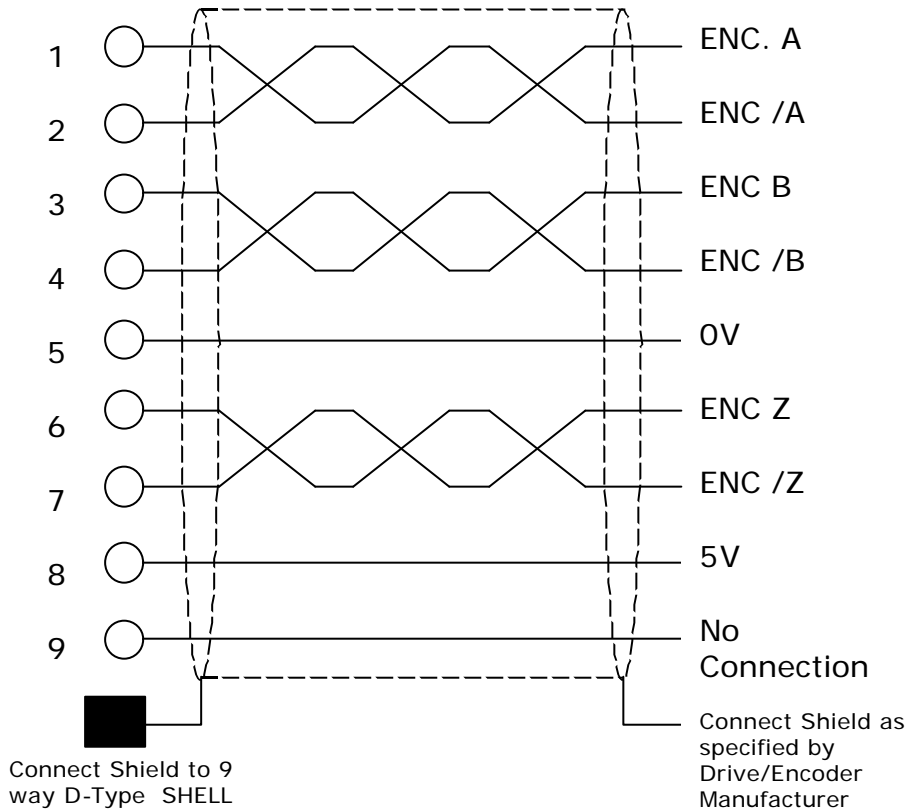
### 1. Wiring Overview



## 2. Encoder Input Wiring



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



### 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.