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Subject: Example system parts lists

Application Note

1. Introduction:

Sometimes it is helpful to have an example system to show what parts must be ordered when specifying your Motion Coordinator. This document shows some of the possible combinations with complete parts lists showing Trio product numbers.

Trio products are shipped with all of the necessary connectors included, except for serial and USB. We recommend that all customers buy at least one copy of the latest Motion Coordinator Technical Reference Manual, P670.

The following are examples of common systems. Many other configurations are possible so please read the product data sheets and/or talk to your distributor in order to determine the full capabilities of these Motion Coordinators.

2. MC202 – all configurations:

The MC202 is not expandable except for the addition of a second serial port. Example a) applies to all possible MC202 configurations.

a) 2 axis stepper, 4 digital input plus 4 digital I/O

Qty	Part No.	Description
1	P165	MC202 Motion Coordinator
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

b) 1 axis servo, 4 digital input, 4 digital I/O plus RS485 serial port

Qty	Part No.	Description
1	P165	MC202 Motion Coordinator
1	P349	Serial to RS485 adapter for MC202
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

3. MC206 – all configurations:

Axes are added to the MC206 basic configuration by adding Feature Enable Codes.

a) 4 axis servo encoder.

Qty	Part No.	Description
1	P135	MC206 Motion Coordinator
3	P390	Additional MC206 Servo Axis
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

b) 2 axis differential stepper.

Qty	Part No.	Description
1	P135	MC206 Motion Coordinator
1	P395	Additional MC206 Differential Stepper Axis
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

c) 2 axis Servo, 1 axis differential stepper, plus Ethernet daughter board.

Qty	Part No.	Description
1	P135	MC206 Motion Coordinator
1	P390	Additional MC206 Servo Axis
1	P395	Additional MC206 Differential Stepper Axis
1	P296	Ethernet daughter board
1	P399	MC206 daughter board adapter
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

4. MC224 – main chassis only:

a) 2 axis Servo, 1 axis differential stepper, plus Ethernet daughter board.

Qty	Part No.	Description
1	P170	MC224 Motion Coordinator
2	P200	Servo encoder daughter board
1	P280	Differential stepper daughter board
1	P296	Ethernet daughter board
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

b) 12 axis SERCOS.

Qty	Part No.	Description
1	P170	MC224 Motion Coordinator
2	P291	Sercos daughter board (includes 2 axes enabled)
1	P708	8 additional remote axes
14	P591	1m SERCOS fibre optic cable
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

5. MC224 – with axis expander(s):

a) 6 axis servo encoder.

Qty	Part No.	Description
1	P170	MC224 Motion Coordinator
6	P200	Servo encoder daughter board
1	P300	MC216/MC224 Axis Expander
1	P355	2 Way system ribbon cable
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

b) 7 axis Servo, 1 axis reference encoder, plus Profibus daughter board.

Qty	Part No.	Description
1	P170	MC224 Motion Coordinator
7	P200	Servo encoder daughter board
1	P220	Reference encoder daughter board
1	P296	Ethernet daughter board
2	P300	MC216/MC224 Axis Expander
1	P360	3 Way system ribbon cable
1	P350	RS232 Serial Cable (2m mini-DIN to 9-D female)

6. PCI208 – all configurations:

a) 6 axis differential stepper.

Qty	Part No.	Description
1	P180	PCI208 PC card Motion Coordinator (includes 2 axes)
4	P182	Additional PCI card stepper axis
1	P181	Breakout module for PCI208
1	P187	2.5m 100way PCI 208 cable

b) 3 axis servo encoder.

Qty	Part No.	Description
1	P180	PCI208 PC card Motion Coordinator (includes 2 axes)
1	P183	Additional PCI card servo axis
1	P184	4 axis PCI208 DAC module (includes 4 analog inputs)
1	P181	Breakout module for PCI208
1	P187	2.5m 100way PCI 208 cable

c) 8 axis servo encoder.

Qty	Part No.	Description
1	P180	PCI208 PC card Motion Coordinator (includes 2 axes)
6	P183	Additional PCI card servo axis
1	P185	8 axis PCI208 DAC module
1	P181	Breakout module for PCI208
1	P187	2.5m 100way PCI 208 cable

Appendix 1; MC206 Part number reference table

Axis Type	Qty	Part Numbers – Order all from the appropriate row					
Diff. Stepper	1	P135					
Diff. Stepper	2	P135	P395				
Diff. Stepper	3	P135	P395	P395			
Diff. Stepper	4	P135	P395	P395	P395		
Diff. Stepper	5	P135	P395	P395	P395	P280*	P399
Servo Encoder	1	P135					
Servo Encoder	2	P135	P390				
Servo Encoder	3	P135	P390	P390			
Servo Encoder	4	P135	P390	P390	P390		
Servo Encoder	5	P135	P390	P390	P390	P200*	P399

* Daughter board. Other daughter boards can be fitted.

** Stepper and Servo axes can be mixed on the same MC206 in any order.