HITACHI

WJ-C1
Quick Start Guide: *Basic Mode*

Quick Start
Essential Parameters

b037: Unlocks parameters (default 04)
A001: Frequency (Speed) Source (default 02)
A002: Run Command Source (default 02)
b012: Motor nameplate current (default varies)
b091: Stop Mode (default 00)
H004: Motor nameplate poles (default 4 poles)
F001: Keypad Speed setting (default 00.00)
F002: Acceleration time (default 10 seconds)
F003: Deceleration time (default 10 seconds)

How to Change the Operating System Parameter List to the **Basic Mode WJ200 Series Format**

1. Change the extended mode selection parameter **Ub-04** to **01**
2. Change the initialization selection parameter **Ub-01** to **04**
3. Execute initialization using parameter **Ub-05** by setting to **01**

How to Unlock
All the Parameters

1. Press ESC to enter programming mode
2. Press ESC until parameter **b001** is on the display of your drive
3. Rotate the JOG dial clockwise until **b037** is reached
4. Then press the SET (center) key to enter the **b037** parameter
5. Now you can change the **04** to **00** by rotating the Jog dial counterclockwise
6. Press the SET key to save the data

Now you have unleashed your WJ-C1 drive!

How to Set the Motor Current

1. Press ESC to enter programming mode
2. Press ESC until parameter **b001** is on the display of your drive
3. Rotate the JOG dial clockwise until **b012** is reached
4. Then press the SET key to enter the **b012** parameter
5. Now you can set your motor nameplate current by rotating the JOG dial
6. Press the SET key to save the data

How to Set the Motor Poles

1. Press ESC to enter programming mode
2. Press ESC until parameter **H001** is on the display of your drive
3. Rotate the JOG dial clockwise until **H004** is reached
4. Then press the SET key to enter the **H004** parameter
5. Now you can set the motor poles based on the speed of your motor by rotating the JOG dial
6. Press the SET key to save the data

Motor poles = 120*60 / synchronous speed (1200, 1800, 3600 RPM)

How to Set the
Speed Reference

1. Press ESC to enter programming mode
2. Press ESC until parameter **A001** is on the display of your drive
3. Press the SET key to enter the **A001** parameter
4. Use the JOG dial to select the speed reference from the options below

00: Remote Operator Potentiometer (OPE-SR/OPE-SRmini)
01: Analog input Ai1/Ai2 (0-10Vdc, or 4-20mA) from the terminals
02: When using the keypad set the speed with parameter F001
03: When setting the speed via Modbus communication network

04: Option card used for speed
06: If your application is using a pulse train input
07: When setting the speed via the Easy Sequence programming
10: When the speed is a result of an operation used in your drive programming

5. Press the SET key to save the data

How to Set the
Run Command Source

1. Press ESC to enter programming mode
2. Press ESC until parameter **A001** is on the display of your drive
3. Rotate the JOG dial clockwise until **A002** is reached
4. Press the SET key to enter the A002 parameter
5. Use the JOG dial to select the run command source from the options below

01: To use the digital input via the terminals
02: When your application calls for using the keypad for run command

03: Use this option when commanding your drive to run via your Modbus communication network
04: Option card will be used for run command

5. Press the SET key to save the data

How to Set the
Frequency or Speed

1. Press ESC to enter programming mode
2. Press ESC until parameter **F001** is on the display of your drive
3. Then press the SET key to enter the **F001** parameter
4. Now you can adjust the speed of your drive, using the JOG dial, based on your application
5. Press the SET key to save the data

F001 parameter can be adjusted with your drive stopped or running.

How to Set the
Acceleration Time

1. Press ESC to enter programming mode
2. Press ESC until parameter **F001** is on the display of your drive
3. Rotate the JOG dial clockwise until **F002** is reached
4. Then press the SET key to enter the **F002** parameter
5. Now you can adjust the acceleration time of your drive based on your application.
6. The time is adjusted by rotating the JOG dial, clockwise to increase and counterclockwise to decrease.
7. Finally, press the SET key to save the data

How to Set the
Deceleration Time

1. Press ESC to enter programming mode
2. Press ESC until parameter **F001** is on the display of your drive
3. Rotate the JOG dial clockwise until **F003** is reached
4. Then press the SET key to enter the **F003** parameter
5. Now you can adjust the deceleration time of your drive based on your application.
6. The time is adjusted by rotating the JOG dial, clockwise to increase and counterclockwise to decrease.
7. Press the SET key to save the data

How to Set the
Stop Mode

1. Press ESC until parameter **b001** is on the display of your drive
2. Rotate the JOG dial clockwise until **b091** is reached
3. Then press the SET key to enter the **b091** parameter
4. Now you can select the Stop Mode from the options below, using the JOG dial to change options
   00: decelerate to stop (controlled stop)
   01: free run stop (coast)
5. Press the SET key to save the data

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