# **Application Note**



# YJKP - Homing system

Description how to home the drive via WebVisu and Host control

YJKP

Title	YJKP Homing system
Version	
Document no	
Original	en
Author	
Last saved	05.09.2019

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### Components/Software used

Type/Name	Version Software/Firmware	Date of manufacture
Servo press kit YJKP	general	
Application software YJKP (GSAY-A4-F0-Z4-1.3.5)	V1.3.5	
Firmware controller (CECC-X)	V3.4.6	
Firmware motor controller (CMMP-AS)	V4.0.1501.2.4	

Table 1.1: 1 Components/Software used

**1.1 Application description**This application note describes how to home the system by using the WebVisu and host control.

#### 2 Prerequisites

Open a browser and start the WebVisu of the YJKP.

The visualization of the servo-press kit is opened with 4 tabs:

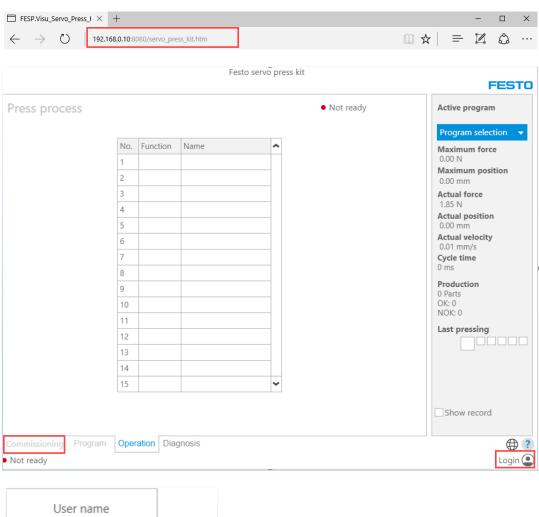
• Commissioning, Program: Not active

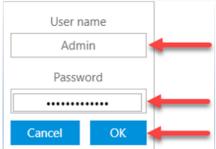
• Operation, Diagnosis: Active

Click on **Login** to active the commissioning and program tabs. A new pop-up window appears and a password must be entered to login.

Default password: User name: Admin

Password: ServoPressKit

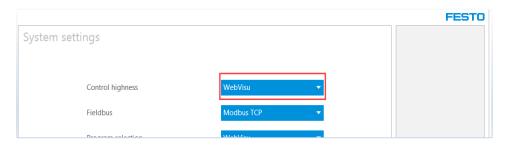




### 3 Homing

#### 3.1 Via WebVisu

1. go to the commissioning tab -> system settings and set the control to WebVisu.

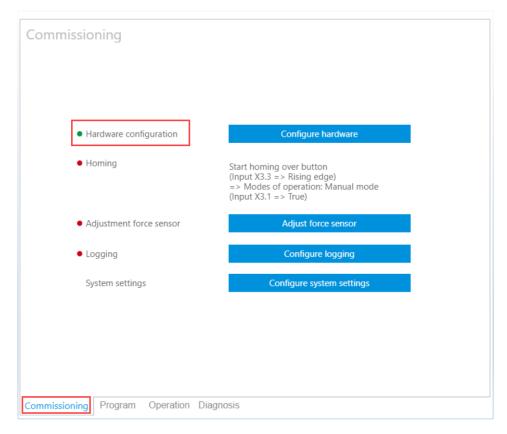


2. In commissioning tab check, if the hardware is configured successfully (= Green).



#### Note:

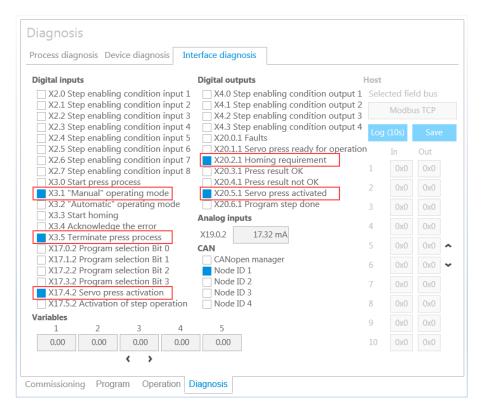
 For further information about hardware configuration, please read AppNote Servo Press Kit YJKP -Hardware Configuration.



- 3. go to **Diagnosis** tab -> **Interface diagnosis** and check these requirements: Required inputs:
  - Manual mode (X3.1)
  - Terminate press process (X3.5)
  - Servo press activation (X17.4.2)

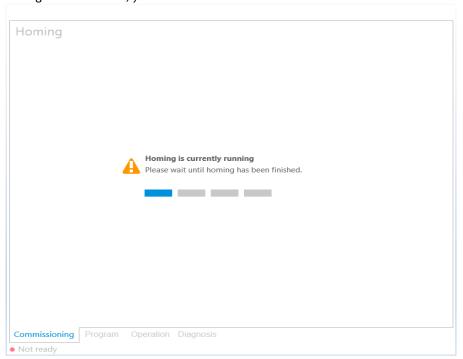
#### Required outputs:

- Servo press activated (X20.5.1)
- Homing requirement (X20.2.1)

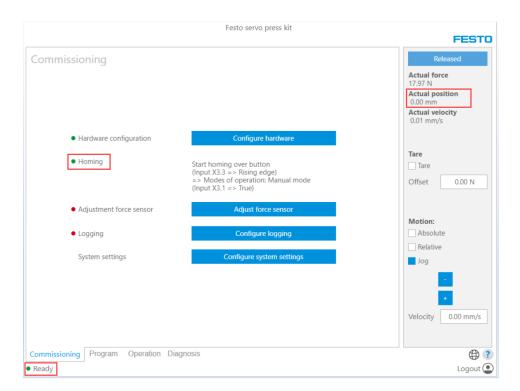


4. Start homing with **Input X3.3.** The cylinder will move in negative direction until it reaches the internal block. Then it will move 3mm in the positive direction .

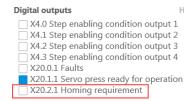
During the movement, you will see this screen:



After a successful homing, homing status will indicate a valid (=green). The actual position will be set to **0.00mm** .

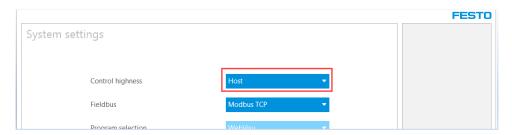


#### Digital output X20.2.1 is inactive.



#### 3.2 Via Host control

1. go to the commissioning tab -> system settings and set the control to Host.



#### 2. Two function blocks are required:

#### I. FB\_Connect

#### Required inputs:

- xEnable := true;
- enTargetComMode := 1;

#### Required outputs:

- xActive = true;
- enActualComMode = 1;
- xConnected = true;

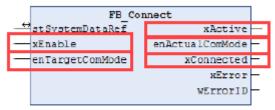


Figure 3-7: FB\_Connect

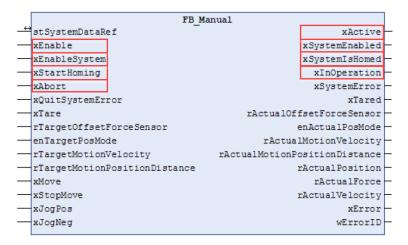
#### II. FB\_Manual

#### Required inputs:

- xEnable := true;
- xEnableSystem := true;
- xAbort := true;

#### Required outputs:

- xActive = true;
- xSystemEnabled = true;
- xSystemIsHomed = false;
- xInOperation = false;



Start homing system with **xStartHoming** := true. The cylinder will move in negative direction until it reaches the internal block. Then it will move 3mm in the positive direction .

#### After a successful homing:

- xSystemIsHomed = True;
- rActualPosition = 0;

