BOOMPILOT

INSTALLATION MANUAL

HARDI HC5500
w/ JobCom

TeeJet ®
TECHNOLOGIES

MATRIX™ WITH HARDI HC5500 CONTROLLER

This installation manual covers the installation of Matrix with Hardi HC5500 controller (HC5500 with JobCom). We have endeavoured to deliver a fault free product. To ensure optimal use of the equipment, we ask you to pay great attention when reading this manual. Regarding responsibility for use of the product, we refer to our sales and delivery terms - especially paragraph 7, which follows:

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Product usage.

7.1   Any use of the product is at the sole risk of the
buyer. The buyer is therefore not entitled to any form
for compensation caused by, for example, any of the
following:
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- Disturbance to/from any electronic services or products that do not confirm to the standards for CE marking,

- Missing or poor signal coverage or a succession hereof from external transmitters/ receivers, used by the buyer,

- Functional faults, which apply to or from a PC-program or PC-equipment, not delivered by the seller.

- Faults that may arise from the buyers negligence to react to warnings and fault messages from the product, or which can be traced to negligence and/or absent constant control of the work carried out in comparison to the planned job.

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7.2   When implementing any new equipment the buyer
must take great care and pay attention. Any doubts as
to correct operation/use should result in contacting
TeeJet Technologies.
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Kind regards,

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INTRODUCTION TO MATRIX - BOOMPILOT

Principle of Operation

The Matrix controls the sprayer according to the GPS position as well as the GPS guidance to avoid overlaps or skips.

The Matrix controls the sprayer in automatic mode and monitor the sprayer in manual mode. The operator is always able to override the control of the sprayer via the master switch on the HARDI SPRAYER II switch box..
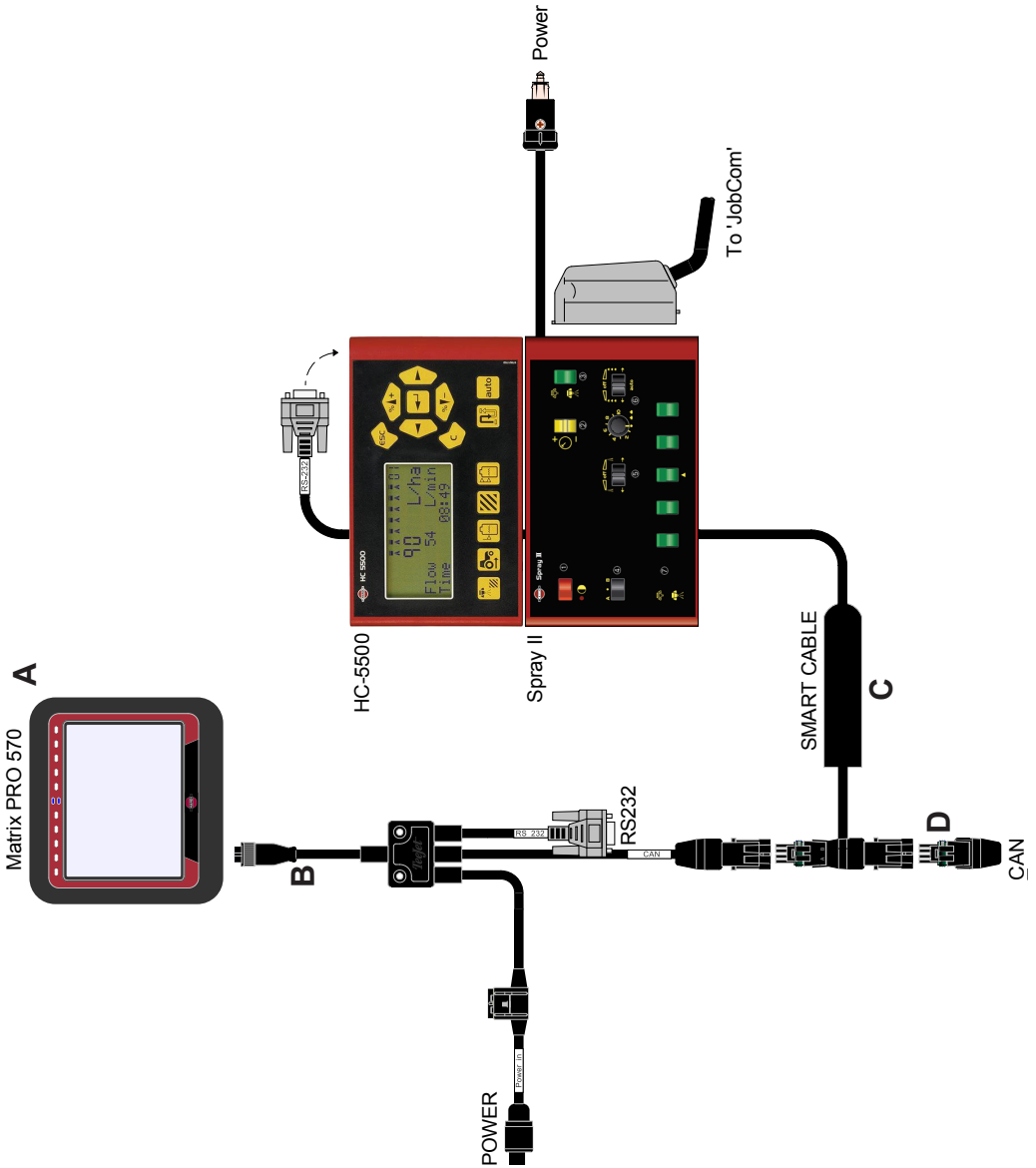
HARDI HC5500 W/ JOBCOM

Features

The Matrix in combination with the Hardi smartcable for HC5500 w/jobCom, adds '**Automatic Boom Section Control**' to the sprayer.

Software version

The HARDI HC5500 and the MATRIX communicates via a special RS232 to CAN device. Therefore the software version in the HARDI HC5500 must be v4.16 or higher.

SYSTEM DIAGRAM MATRIX 570

Power

To 'JobCom'

RS-232

HC-5500

Flow 90 L/ha
Time 54 L/min
08:49

auto

Spray II

SMART CABLE

C

Matrix PRO 570

A

B

RS 232

RS232

CAN

D

CAN

POWER

Power in

Required Parts

To add BoomPilot to a HARDI HC5500 w/JobCom, the following part numbers are required:

Item	Part Number	Description	Quantity
A	90-xxxxx*	Matrix Guidance Controller Kit	1
B	45-05826	Power/CAN/Data Cable w/COBO connector	1
C	78-05096	SmartCable HARDI HC5500	1
D	45-08101	CAN Termination male 4p WP	1

Part number is dependent on kit contents

INSTALLING THE HARDI HC5500 SMARTCABLE

Connect the Smartcable (C) and CANBUS termination (D) as shown on the system diagram.

Connecting to Power:

Pos.	Description
1	+12V (15/30)
2	Ground (31)

Connect the Smartcable to COM-2:

SYSTEM CHECK

Please refer to the MATRIX Quick Guide and the Hardi HC5500 user manual.

To check the system it's necessary to have full GPS signal so the vehicle must be placed outside.

Connect all cables before starting the MATRIX and the HARDI HC5500 controller.

MATRIX

- Encode number of sections and working width.

- Encode antenna 'Direction', 'Offset' and 'Hight'

- Encode 'Overlap'

- Encode 'Delay-start' and 'Delay-stop'

- Select AUTO in the 'Work-screen' (Press the green triangle)

HARDI HC5500

- For general setup, refer to the HARDI manual

- In the 'Data exchange' menu Set COM-2 to 'VRA/Remote Control' and baud rate = 9600.

- Turn the master switch and the section switch's ON.

- Drive forward (Min. 1.5 kmh), check that all section valves open.

- Check that all sections shows 'ON' in the Matrix display.

- Check that all sections shows 'ON' in manual mode (Red triangle).

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