MATRIX PRO QUICK START-UP GUIDE



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For a complete English User Manual, go to **www.teejet.com** or order part number 98-05239.





#1 Turn Power On

Press the POWER BUTTON to power on the console.

Upon power up, the Matrix Pro will begin its Start Up Sequence.

To turn the power off, press and briefly hold the power button until a confirmation screen acknowledges shut down mode.

WARNING! Wait 30 seconds before restarting the console after powering off.





#2 Start New Job or Continue Job

Once the power up sequence has completed, the Home screen will appear with the option to start a new job or continue an existing job.

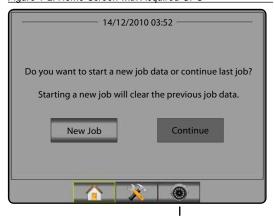
To start a new job press New Job

To continue the existing job press Continue

Figure 1-1: MUST HAVE GPS BEFORE STARTING JOB



Figure 1-2: Home Screen with Acquired GPS

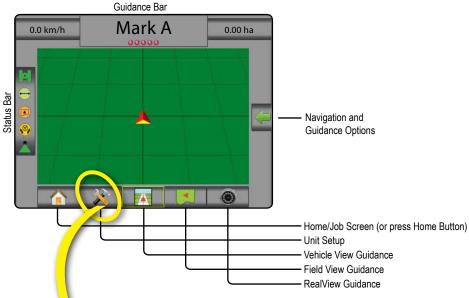


RealView Camera Full Screen Video View

RealView Camera Full Screen Video View

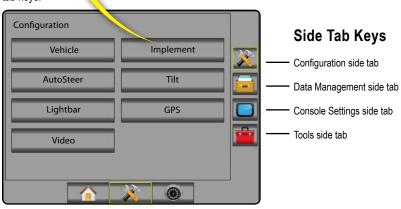
View video feed(s) and setup cameras without GPS available. Options for Realview Guidance are not available on this screen.

#3 Guidance Screen



#4 Go To Unit Setup

The Configuration options will be displayed first. Data Management, Console Setting and Tools can be accessed through the side tab keys.



Light or Dark Console Screen

The console is available in two colour schemes.

To change to "dark", press CONSOLE side tab . Press Display Press Color Scheme DOWN arrow and select between "Dark" or "Light" colour mode.

Configuration

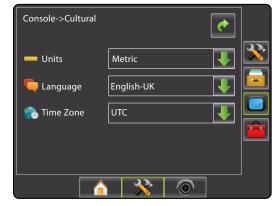
GPS A 18 0

#5 Cultural Setup

- 1. Press CONSOLE side tab
- 2. Press Cultural
- Select from:
 - ► Units —— defines the system measurements
 - ► Language defines the system language
 - ► Time Zone establishes the local time zone.
- 4. Press RETURN arrow or CONSOLE side tab to return to the main Console screen.

Figure 1-3: Cultural Options



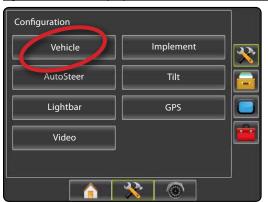


#6 Vehicle Setup

- 1. Press CONFIGURATION side tab 🤾.
- 2. Press Vehicle
- 3. Select from:
 - ► Vehicle Type 🛱 selects the type of vehicle that most closely represents your vehicle
 - ► Antenna Height

 → sets the height of the antenna from the ground
 - ▶ Direction to Boom ♣ sets whether the boom is located behind or in front of the GPS antenna
 - ▶ Distance to Boom ◄ defines the distance from the GPS antenna to the boom
- 4. Press RETURN arrow or CONFIGURATION side tab to return to the main Configuration screen.

Figure 1-4: Vehicle Setup Options





#7 Implement Setup

When a SmartCable or Section Driver Module (SDM) is not present only a single boom setup is available. Configurations for Overlap, Delay On and Delay Off will not be available, and Number of Sections will be set to one.

- 1. Press CONFIGURATION side tab 💸 .
- 2. Press Implement
- 3. Select from:
 - ► Number of Boom Sections establishes the number of boom sections
 - ► Guidance Width establishes the width between guidelines
 - ► Spray Width ← establishes the width of each boom section for a total spray width
 - ► Overlap determines the amount of overlap allowed
 - ► Delay On ♠ establishes the timing for the boom section valves to switch on
 - ► Delay Off △ establishes the timing for the boom section valves to switch off
- 4. Press RETURN arrow or CONFIGURATION side tab to return to the main Configuration screen.

NOTE: Press or to switch between Implement setup screens.

#8 AutoSteer Setup

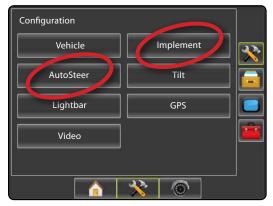
When a Steering Control Module (SCM) is present, AutoSteer options will be available. For detailed setup instructions, refer to your specific FieldPilot or auto steering installation manual or visit www.teejet.com for the full Matrix Pro User Manual, part number 98-05239.

NOTE: An update of your SCM software may also be required when updating an existing Matrix console to Matrix Pro.

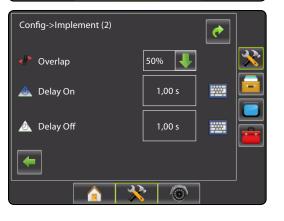
SCM Software Version Required

SCM Software Version	Matrix 1.x	Matrix Pro 2.x
1.03	•	
1.04	•	
1.05	•	
10.0		•

Figure 1-5: Implement Setup Options







#9 Go To Guidance Screen

Figure 1-15: Vehicle View Guidance



Figure 1-16: Field View Guidance



Figure 1-17: RealView Guidance



#10 Choose a Guidance Mode

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- 2. Press GUIDANCE MODE icon 🖘
- 3. Select from:
 - Straight AB
 - ► Curved AB

 - ► Last Pass 🤍
 - ► NextRow 🥌

Figure 1-18: Choose a Guidance Mode





#11 Mark A and B Points

To establish a AB quideline:

- 1. Drive to the desired location of Point A ...
- 2. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- 3. While the vehicle is in motion, press MARK A icon (4).
- 4. Drive to the desired location of Point B
- Press MARK B icon to establish the AB line.
- 6. "Would you like to name this guideline?" Press
 - ► Yes to enter a name and save the guideline in the
 - ► No to automatically generate a name and save the guideline in the console.

The console will begin providing navigation information.

NOTE: The MARK B icon B is not available for selection (greyed out) until the minimum distance is travelled.

Use CANCEL MARK icon oto cancel the Mark A command and revert to the previous AB guideline (when established).

To establish additional guidelines, follow the same steps as the initial guideline.

Figure 1-19: Mark A Point



Figure 1-20: Mark B Point



Figure 1-21: Save Guideline

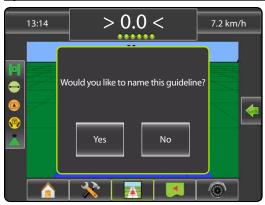
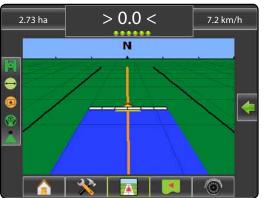


Figure 1-22: Follow Guidance



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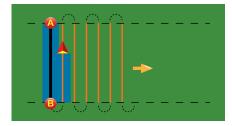
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Straight AB Guidance

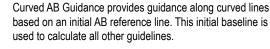


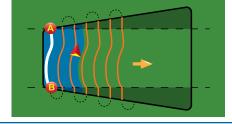
Straight AB guidance provides straight line guidance based on A and B reference points. The original A and B point are used to calculate all other parallel guidelines.





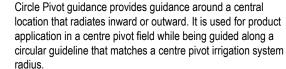
Curved AB Guidance

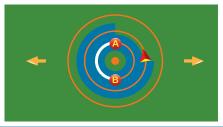






Circle Pivot Guidance

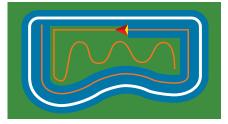






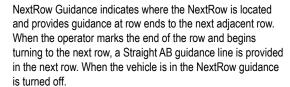
Last Pass Guidance

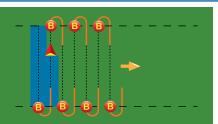
Last Pass Guidance offers true last pass navigation. The console will automatically detect the nearest "applied" guideline and establish adjacent pass based on that guideline.





NextRow Guidance

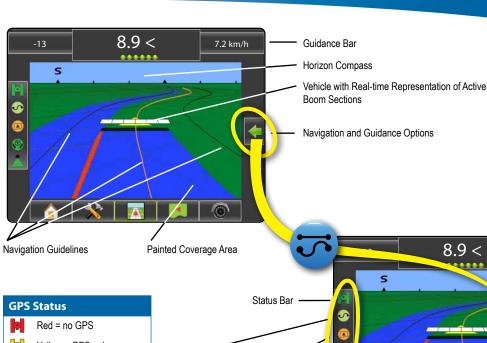






No Guidance

No Guidance turns off guidance.



Yellow = GPS only

Green = DGPS.WAAS/ RTK, GLONASS

Peach = Glide/ClearPath

Guidance Mode

Straight AB Guidance

Curved AB Guidance

Circle Pivot Guidance

Last Pass Guidance

NextRow No icon = No Guidance

Bounded Area Status

Outside Boundary = Currently travelling outside bounded area

Inside Boundary = Currently travelling inside bounded

No icon = No boundary established

AutoSteer Status

Green = Engaged

Yellow = Enabled Red = Disabled

> No icon = no auto steering system installed on system

BoomPilot Status

Red = Off/Manual

Green = Automatic

Yellow = All On

No icon = Single Boom Section (no SmartCable or SDM installed on system)

8.9 <

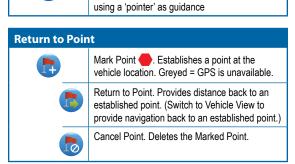
7.2 km/h

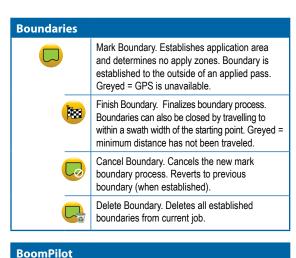
Press a Status Bar icon for more information.



Guidance Options



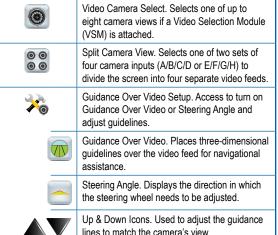


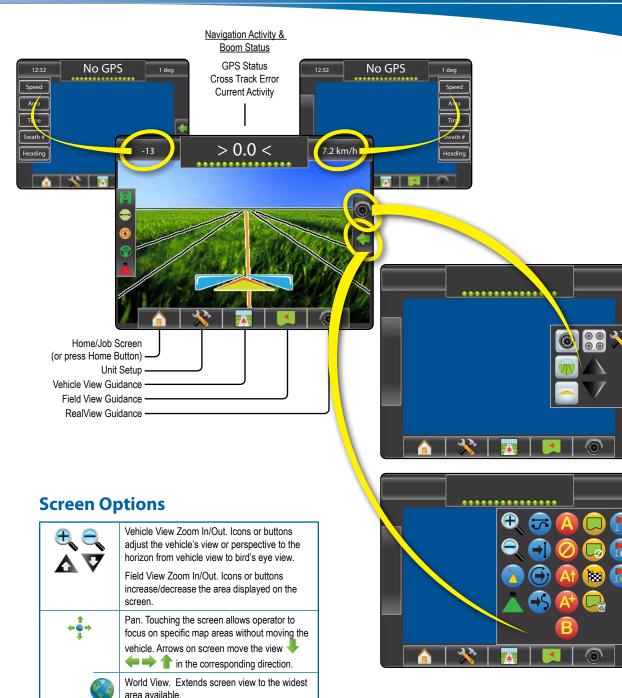




GPS is unavailable.

BoomPilot, Selects BoomPilot mode. Greved =





GUIDANCE FEATURES DETAILS

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To adjust a AB guideline to your current location:

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- 2. Press A+ NUDGE icon (2) to adjust the guideline to the current location.



To establish the azimuth guideline:

1. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.

2. Press AZIMUTH icon 4 to enter azimuth degree.

Use the entry screen to establish the Azimuth degree.

Press:

► Accept to save the settings

► Cancel to leave the keypad without saving

5. "Would you like to name this guideline?" Press

➤ Yes – to enter a name and save the guideline.

► No – to automatically generate a name.

The console will begin providing navigation information.

To establish additional azimuth guidelines, follow the same steps as the initial azimuth guideline.

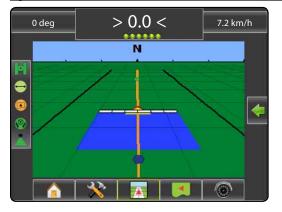
Figure 1-6: Azimuth Degree



Figure 1-7: Save Guideline



Figure 1-8: Follow Guidance





To establish a field boundary:

- 1. Drive to a desired location at the perimetre of the field/
- 2. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- 3. While the vehicle is in motion, press BOUNDARY icon 💭
- 4. Travel the perimetre of the field/area.
- 5. Finish boundary:
 - ► Travel to within one swath width of the starting point. The boundary will close automatically (the white guideline will turn black).
 - ► Press BOUNDARY FINISH icon 🚾. A straight line will complete the boundary between your current location and the starting point.
- 6. Press:
 - ► Yes to save the boundary.
 - ► No to delete the boundary.

Figure 1-9: Boundary in Progress



NOTE: On the external or initial boundary, the BOUNDARY FINISH icon is not available for selection (greved out) until the minimum distance is travelled (five-times the swath width).

To create an interior boundary, follow the same steps as the initial boundary.

Figure 1-10: Save Boundary - Field View



Figure 1-11: Boundaries Complete



If a swath was applied while creating an external or initial boundary, the boundary line will be to the exterior of the applied swath. If a swath was applied while creating an interior or additional boundary, the boundary line will be to the interior of the applied swath.

Use CANCEL BOUNDARY icon to cancel the new field boundary process and revert to the previous boundary (when established).

Use DELETE BOUNDARY icon

to delete all field boundaries for the current job.

In correspondence to your current location, the IN BOUNDARY icon or OUT BOUNDARY icon is displayed on the Status Bar once the boundary is established.

Return to Point

To mark a return point:

- Drive to the desired location of Return Point
- 2. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- Press ADD POINT icon

Figure 1-12: Return Point Established - Vehicle View



To show distance and guidance to the established point:

- Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- 2. Press the RETURN TO POINT icon ...

Use CANCEL RETURN TO POINT icon to delete the established point.



To show other saved guidelines:

- 1. Press NAVIGATION & GUIDANCE OPTIONS icon to display navigation options.
- 2. Press NEXT GUIDELINE icon 🕕 🥌 🕣.

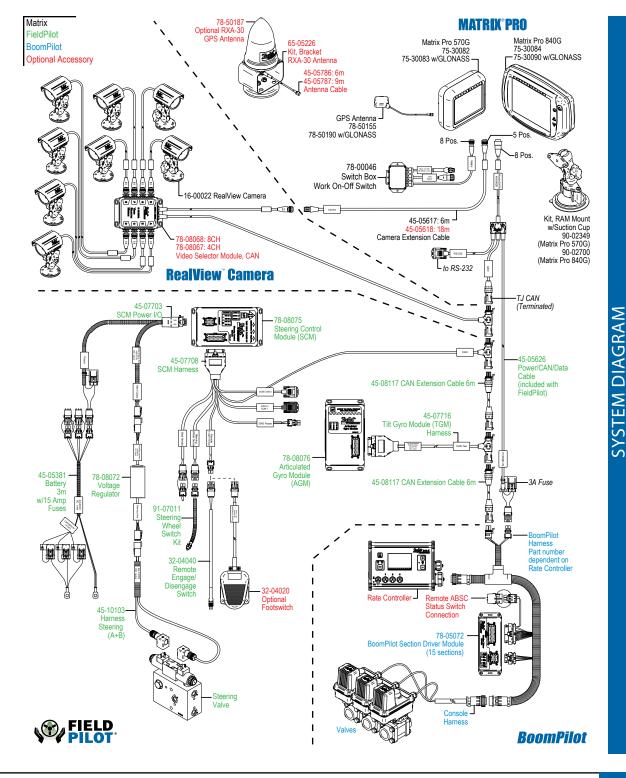
Figure 1-13: Next Guideline



To view which guideline is active, press the Guidance Mode icon on the Status Bar.

Figure 1-14: View Which Guideline is Active





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