MATRIX® 430

RELEASE NOTES

NOTE: These Release Notes are specific to the software used in standard Matrix 430 consoles. Separate Release Notes are available for the Matrix 430 VF console software.

Matrix® 430 v1.06

January 2023

Associated Documentation:
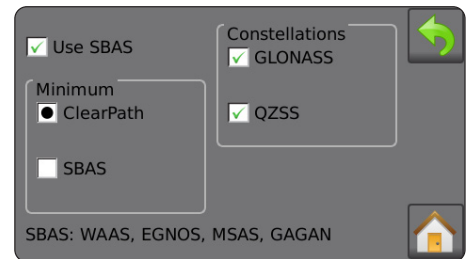- Manual 98-05332 R4
- Guide 98-01493 R9

New Feature:
- Enhancements to the GNSS settings page to make it more intuitive, align functionality with other Matrix models, and support a running change in 2023 production to add QZSS constellation capabilities.

Fix:
- Corrects problem where the Guidance mode would default back to Straight A-B mode after a power cycle. Guidance mode at power up is now the same mode as it was at power down.

MATRIX® 430 v1.06

Matrix® 430 v1.05

September 2020

Associated Documentation:
- Manual 98-05332 R3
- Guide 98-01493 R8

Fixes:
- Corrects problem where the state of an optional external Work On/OFF switch may not be determined correctly resulting in errors in the application map.
    Note: sometimes a TeeJet rate controller Master switch output is the source of this signal.
- Corrects problem where USB Drive updates to v1.05 in some situations can result in the User Interface for v1.05 displaying as a Matrix 430 VF.

Matrix® 430 v1.04

December 2019

Associated Documentation:
- Manual 98-05332 R2
- Guide 98-01493 R7

New Features:
- Application data can now be stored in 5 separate jobs
- 5 machine configurations can now be saved making it fast and convenient to use the system with different machines
- Added NextRow guidance mode
- Added Field View with Pan and Zoom functions so user can zoom out to the extents of the applied area.
- Application data saved to memory while using GNSS Demo mode is deleted at the next power cycle

MATRIX® 430 v1.04

Fixes:
- Job data storage improved to minimize the amount of job data that may be lost if console experiences sudden power loss.
    NOTE: A regular power down of the console is still required to save all job data correctly.
- Corrects problem where the console stops responding because the user completely fills the memory with job data. System now shows warnings at 80% & 90% memory levels. If user continues to add applied data, new data will not be saved once the memory is full, but sufficient memory is reserved to still allow applied data to be deleted from memory.
- Corrects problem where the console may indicate that the USB Drive is still connected to the console after the drive has been removed from the USB port.

RELEASE NOTES

Matrix® 430 v1.03

February 2016

Associated Documentation:
- Manual 98-05332 R1
- Guide 98-01493 R6

New Features:
- Antenna to Boom distance can now be set from -10.0 m (boom forward) to +20 m (boom back).
- Added Transport mode to prevent the accumulation of GNSS position bias while transporting to the field when GNSS reception will be poor due to trees, buildings, etc.

Fixes:
- Corrected problem where changing the implement configuration with a job open could cause the application to crash. User must now close the job in order to change the Implement configuration.
- Made the power-down and data save procedures more robust, to prevent isolated cases of corrupted job data or consoles not booting into the application correctly in the next power-on event.
- Demo mode can be used with any allowed GNSS configuration
- Corrected problem where dropping a 'Return-to-Point' location in Demo Mode could cause speed and drawing problems in the next power-on event
- Firmware updates now run regardless of when the USB Drive is inserted in the console.
- Console can be powered off while in Screen-Shot mode with USB Drive inserted in port

Matrix® 430 v1.02

February 2015

Associated Documentation:
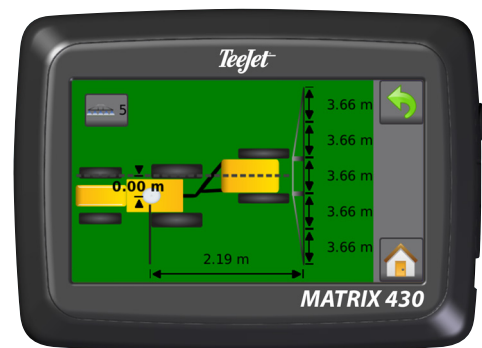- Manual 98-05332 R0
- Guide 98-01493 R1

New Features:
- Speed output, signal for rate controllers etc. (requires external power/sense/speed cable: EU – 45-05969 or US – 45-05970)
- Implement detect input (requires external power/sense/speed cable: EU – 45-05969 or US – 45-05970)
- No delay in as-applied painting when switching implement on or off via the screen
- First-time startup settings added to automatically walk user through US/Metric units, Implement settings including sections and antenna position, and GNSS settings

Fixes:
- Corrected problem of occasional lockup when using Demo mode
- Virtual lightbar changed from Vehicle mode to Swath mode
- Improved usage of A+ button

MATRIX® 430 v1.02

Matrix® 430 v1.01

November 2014

The compact Matrix 430 is an easy to use, low cost, graphical guidance system ideal for first-time users. The full-color, touchscreen display allows the operator to efficiently navigate fields with minimal skips and overlaps in coverage

Associated Documentation:

- Guide 98-01493 R0

New Features:

- Versatile GNSS guidance in a compact, portable package
- High-contrast, full-color, 4.3"/110 mm graphic touchscreen display provides superior visibility in bright light conditions
- Full time, on screen numeric display of cross-track error with user selectable display of two additional parameters including: worked area, worked time and ground speed
- High-quality, internal GPS/GLONASS engine with ClearPath™ technology that enhances GNSS performance in areas where reception is poor or in regions where SBAS differential correction is not readily available
- Optional RXA-30 antenna provides improved reception and noise rejection for situations where GNSS signals may be weak or partially obstructed
- Minimal setup needed before operating
- Guidance modes include: Straight AB, Curved AB, Circle Pivot, and Last Pass
- Return-to-point feature allows operator to easily resume jobs or mark field hazards
- Boundary function allows for easy and precise measurement of field area
- Implement ON/OFF status can be manually activated on screen for single or multiple sections or for single section only with status detect wire
- Applied alert provides operator with audible alarm when entering into previously applied areas
- Area counter measures and displays applied area throughout application
- Elapsed time counter measures amount of time spent on current job
- Simple reporting function provides coverage reports in .KML or .PDF format downloaded via USB port

MATRIX® 430 v1.01

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