



WEED-IT QUADRO, Quick Start Guide

The Croplands WEED-IT Quadro 4000, 6000, 7000 litre and Toolbar Sprayers are the latest in the Croplands Optical Spot Spraying range, featuring a total update of the WEED-IT technology and updated sprayers to suit.

The most obvious change is to the sensors which now emits a blue light beam with a 4 channel lens (as opposed to the original red beam / 5 channel), plus the use of conventional nozzle bodies and boom tubes.

This Quick Start Guide highlights the operational variations from older "Red Sensor" Croplands WEEDit Sprayers, and will be supplied in conjunction with the manual for the "Red" Sensor sprayers, BT-OMWEED-A (for series 3, 4000 & 6000) or BT-OMWEEDD-A (for 7000) as pictured below left.

Also supplied with this guide will be (but not limited to) the WEED-IT Quadro User Manual (BT-UMWEEDQ-A), WEED-IT Quadro Parts List (BT-PMWEEDQ-A), WEED-IT Transport Unloading & Setup Guide (BT-OMWEED-TRANS) and WEED-IT Transport Kit (MP-375) (not pictured).

Please read all manuals, especially the thoroughly before commencing the unloading or operating of the sprayer.



Safety.

Please read and understand all supplied manuals, guides and safety decals before operating this sprayer.

This includes the **Croplands Safety Manual** – as pictured here.



Quadro Hardware

Almost every component of the Quadro system is different to the original WEEDit system, including

- **New Optical Sensor** using a blue beam and 4 channel lens.
- **New Power Converter Box** (no longer called a Wald Box). Note the connectors are different to earlier versions.



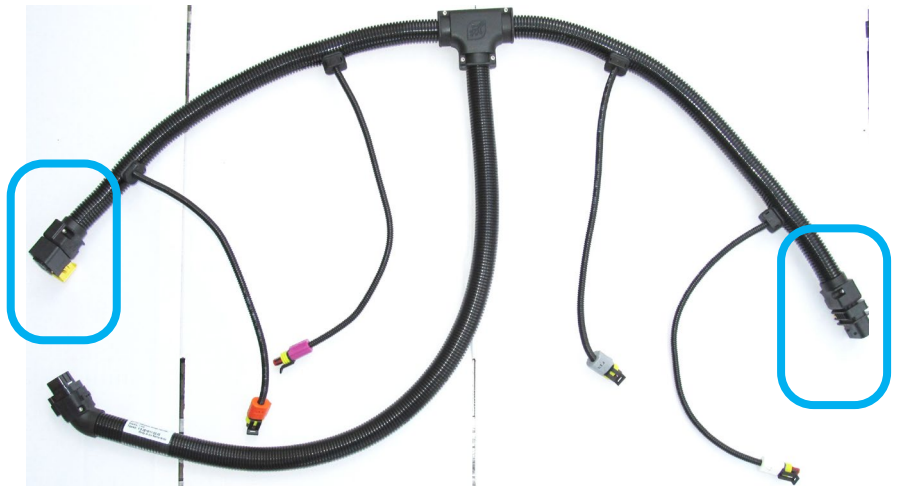
- **New User Console.**



- **New Detections Sensor Harnesses** for coupling Sensor to spray Solenoids, which come in 1, 2 or 3 sensors per harness, left and right hand versions and with different 2 lengths of sensor connection to Tee of 800mm and 1300mm.

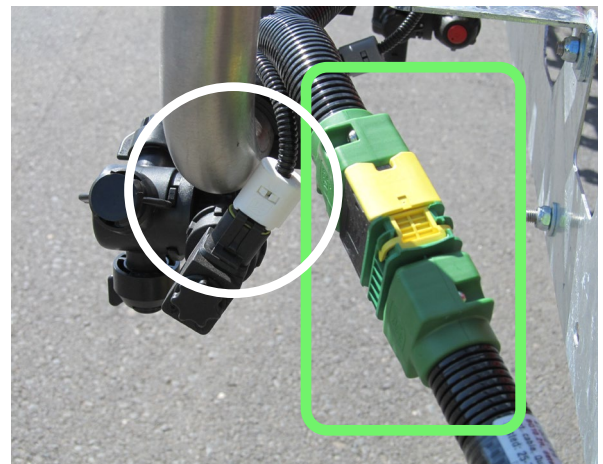
In all 12 different harnesses.

Shown is a single sensor harness for the LH side and with 800mm length from the Tee to the sensor.



Note the solenoid connections are colour coded **orange, magenta, grey and white**. The order of these is important, working from left to right across the boom **this order must be maintained** – with orange being the first nozzle and white the last.

Equally important to note is the variation between harnesses used on the Left or Right hand sides of the boom. The **Left hand harnesses use black** connectors, as per the harness photo above (**highlighted in blue**), and the **Right hand harnesses use green** connectors as seen in the photo opposite.



- **New solenoid**, four per Sensor, which attaches to a conventional boom tubes & triplex nozzle bodies.

The solenoid connections are colour coded. Note the examples to the right is using the white connection (**highlighted in white**), hence the 4th / right hand channel of the sensor.



- **New connectors and extension leads** to most components.

For full details on the parts, please see the Croplands WEED-IT Quadro parts manual, which will have been supplied with this manual. The parts manual, BT-PMWEEDQ-A can also be found on the Croplands web site.

Croplands Sprayer Changes

Along with the Quadro changes come a series of Sprayer improvements in order to fully utilize the WEED-IT Quadro technology.

- The most obvious change (compared to “Red” sensor models) is the **1” stainless steel tube** for both WEED-IT and Blanket line spraying. These tubes, along with flowing 90 or 180 degree bends have been optimised for good flow and minimum pressure drop. This is especially important for the WEED-IT line where spraying can go from zero to full in an instant.



- **New brackets** for the tubes and saw tooth nozzle protection rails (see above).

- **Recirculation** on the WEED-IT line. This keeps chemical flowing / prevents settling and assists with maintaining a constant boom pressure under all circumstances. The return (recirc) line from the end of the WEED-IT spray boom goes back to a new ball valve on the panel. The valve is used to select the correct return tank (for dual tank sprayers), and can be varied from full flow (default position) to off.



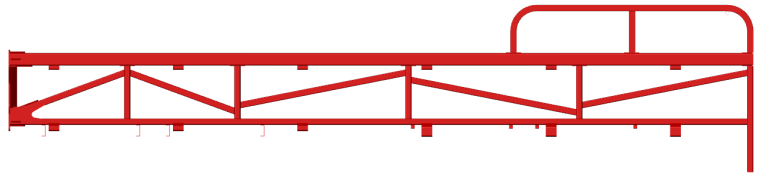
- **Aspirator** on the ends of the blanket lines to reduce air entrapment. The final nozzle body is 4 way, with the 4th outlet left open to be used as a drain tap.
- **Fence line** nozzles now via motor valve at the rear of the sprayer and with non drips fitted at the boom end.



- **New speed rings** (BP-700C-9-1C) with extra sectors (now 22 pcs) for extra precision. Trailed sprayers only.



- **Revised camera brackets.** All but 2 camera brackets have been shortened by 70mm in order to gain more clearance between the stay arm (parked) and the Sensor harnesses. Also reduces overall size & weights. This running change is due in February 2020.

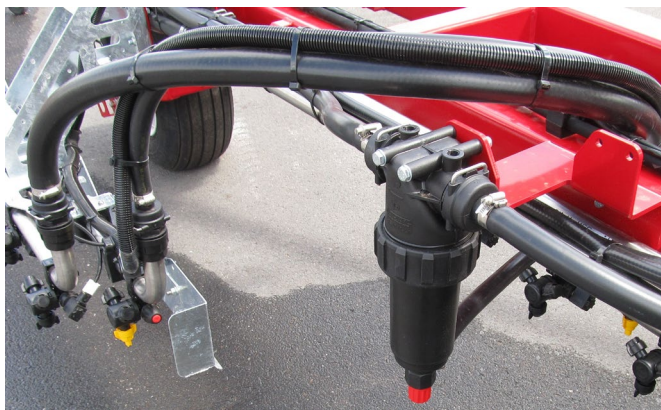
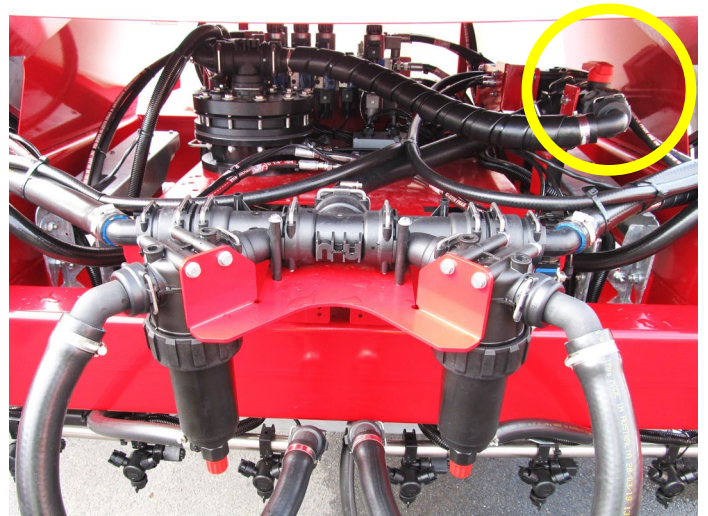


- The **boom tip** protection structure has several changes better fit the shorter camera brackets and nozzle rails etc. This running change is due Feb 2020.

- **Isolation tap** for the WEED-IT spray line.
The 7000 is shown to the right in white.
The 4/6000 is under the cover, below, highlighted in yellow.



- **Revised filter** locations as required by the new plumbing, as shown here and below.



WEED-IT Quadro, Operation *Note; most other functions remain as per standard manual.*

- Start tractor engine and allow the revs to settle to idling speed.
 - Turn "ON" the WEEDIT Console in the top left corner.
 - Select the appropriate tank (Main or Spot, depending on sprayer) to test sensors and nozzles.
 - Set the WEED-IT Recirculation valve to return to the source tank (as above).
 - Activate tractor hydraulics to start the sprayer pump, adjusting oil flow until 3 Bar spraying pressure is achieved.
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- Press **red square menu button** in the centre of the console for a few seconds until the 100 Menus display in the top right corner of the display.
 - Repeat pressing the menu button quickly to show Menu 102.
 - Press the Leaf button to active Test mode, this will flash repeatedly when activated.
 - With a fresh green weed on the end of a stick, wave the weed forwards and back in the driving direction confirming the sensor is activating and each nozzle is spraying. Use PPE (personal protective equipment) when performing this test.
 - When testing is completed press the escape arrow button in the bottom left corner of the display.

Selecting Sensitivity Settings

- Press Menu button and the Sensitivity will pop up briefly on the screen.
- Select the most Sensitive setting without too many random firings.
- Random firing will increase with more sun intensity during mid afternoons and short peaks at sun rise and sun set.

1	Ultra Sensitivity	Double knock targetting of all weeds for a second chemical application (possibly a different chemical group). Not commonly used however is a powerful tool in herbicide resistance management.
2	Very Sensitive	Stressed weeds , dry conditions possibly after extended periods of no rain. Hot & dry. Only used on moisture stressed plants.
3	Standard Sensitivity	Very small weeds.
	No. 3 is the common starting point for most spot spraying – will still produce some random firing.	
4	Less Sensitive	Small weeds , slightly less random firing.
5	Insensitive	Medium weeds.
6	Very Insensitive	Large weeds. Ideal for spraying on a 30 day cycle.
7	Ultra Insensitive	Very large weeds. Ideal when applying a dual line pre-emergent blanket application – used with dual tank and dual chemistry.

- ⚡ Boom recirculation valve may be adjust towards OFF to achieve more spraying pressure. Only turn valve OFF when conducting maintenance on the nozzles solenoids or filters.
- ⚡ For all other information on the Quadro system, please consult the Quadro User Manual.

Notes:

The WEED-IT Sprayer will be delivered with the following manuals ...

- This Quick Start Guide, part no. BT-WEEDQ-QSG-A
- WEEDit (sprayer) Operators manual, part no. BT-OMWEED-A (4000 / 6000 models) or BT-OMWEEDD-A (7000 models).
- WEED-IT Quadro User manual, part no. BT-UMWEEDQ-A
- WEED-IT Quadro Parts manual, part no. BT-PMWEEDQ-A
- WEED-IT Transport Unloading & Setup guide, (v3), part no. BT-OMWEED-TRANS
- WEED-IT Transport Kit info, (v3), part no. MP-375
- WEEDit Boom Parking Quick Start guide, (v2), part no. BT-OMWEED-QSG-B
- Safety Manual, part no. GP-SAFE-A
- And relevant manuals for pumps and controllers etc.
- Sprayer Specification, Warranty & Pre-Delivery booklet.

Note the above manuals will be updated from time to time. When this happens the suffix will change from A to Z.

For details not covered by this quick start guide or the operators manual(s), please contact Technical Support.

NOTE

Contact Croplands Technical Support for
further information:

1300 650 724

ALL PARTS INFORMATION is now listed on the Croplands website:

- Go to www.croplands.com.au
- Search in the Parts Information section linked to the home page.

Drawings & Schematics

The following / attached drawings and schematics are to enable customers to identify the new boom parts, new tubes and configurations of the WEED-IT sensor harnesses etc.

This is the first draft of the Quick Start Guide, without drawings and schematics. The full version with drawings etc will be published as soon as available.

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Your nearest Croplands Dealer can be found in the dealer section on the Croplands website.