



guideWELD® LIVE Quick Start Guide

Congratulations!

The guideWELD® LIVE real welding guidance system is a live welding training and education tool that gives students instant feedback on core welding techniques during live, arc-on welding.



System Includes:

1. Auto-darkening Welding Helmet with Guidance Display and an SD card with 18 default Welding Procedure Specifications (WPS's) in Helmet
2. Angle Sensor (connected to Helmet)
3. Stick Calibration Fixture
4. Speed Shield with Brackets
5. Screw knobs
6. Speed Sensor with base
7. Eight rechargeable batteries with battery charger
8. Accessories/supplies: screwdriver, arm band, extra protective speed lens, helmet protective shield, helmet manual
9. Downloadable guideWELD® LIVE Curriculum



Additional Resources:

www.realityworks.com/guideweldlive-downloads

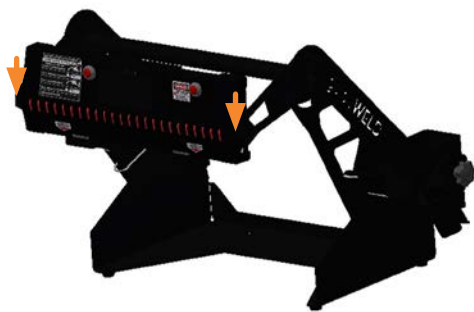
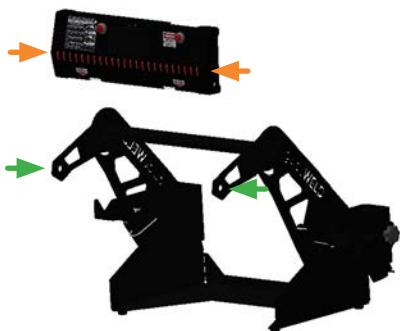
1. User Guide
2. guideWELD® LIVE Curriculum
3. Available Standard WPS Lists and WPS Editor
4. Product Support tutorials and documents

ASSEMBLY INSTRUCTIONS

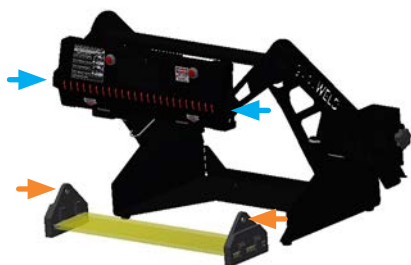
Speed Sensor and Speed Shield Assembly

Connect the Speed Sensor and Speed Shield to the base by attaching the two screw knobs. Both sides of each have pre-drilled holes.

1. Position threaded holes on the Speed Sensor (orange arrows) to the inside of the base arm (green arrows)



2. Position the threaded holes on Speed Shield Bracket (orange arrows) to the outside of the base arm (blue arrows)



3. Line up the 2 screw knobs* to the outside of the Speed Shield Bracket to the base arm (red arrows)



4. Screw until tight

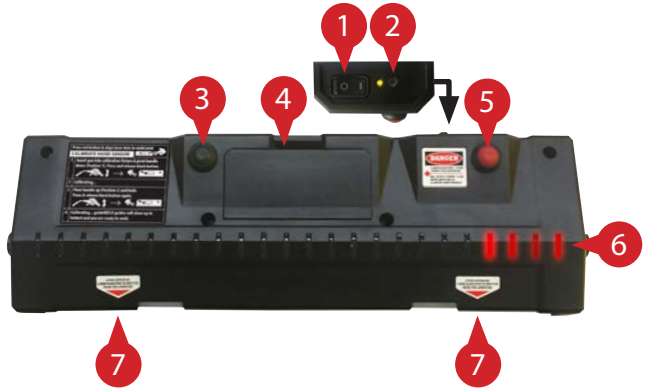
*These knobs are also used for adjusting the alignment of the Speed Sensor.

REFERENCE GUIDE TO SYSTEM PIECES

Use the images below as you walk through the set-up of your guideWELD LIVE Helmet and the calibration process.

Speed Sensor

1. On/off button
(back of Speed Sensor)
2. Binding button
(back of Speed Sensor)
3. Calibration button
4. Battery compartment
(two AA batteries)
5. Alignment button
6. Arc-off speed indicators
7. Alignment lasers
(front of Speed Sensor)



Helmet and Display

guideWELD LIVE periphery guidance is located inside the auto-darkening Helmet using the chosen WPS as the guide for each and every weld.

1. Battery compartment
(two AA batteries)
2. Work Angle guidance indicator
3. Travel Angle guidance indicator
4. Speed guidance indicator
5. Helmet display on/off button
6. Menu select button
7. Menu navigation buttons
8. Menu display
9. SD card port



HELMET SET-UP

View Reference Guide to System Pieces (page 3) for button positioning and Helmet guides.

- 1. Turn on the Helmet and Speed Sensor
- 2. Look at the menu display, use navigation buttons to determine a choice on each of the following screens

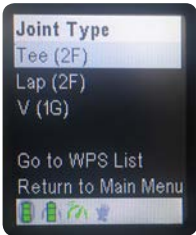
- 3. Choose WPS Selection to start a new WPS or choose Weld with WPS, which is the previous WPS used. Press the menu select button to confirm



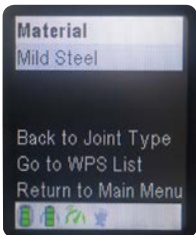
- 4. Choose Process. Press the menu select button to confirm



- 5. Choose Joint Type. Press the menu select button to confirm



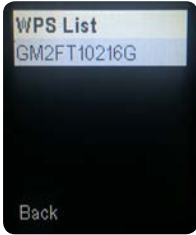
- 6. Choose Material. Press the menu select button to confirm



- 7. Choose Thickness. Press the menu select button to confirm



- 8. Choose WPS. Press the menu select button to confirm*



- 9. Choose desired Indicators to display. Press the menu select button to confirm



- 10. Choose Starting Position. Press the menu select button to confirm



* Only one option may be available based on previous selections.

CALIBRATION PROCESS

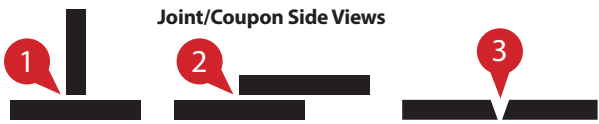
NOTICE: The calibration process will need to be completed before each weld!

The process includes Speed Sensor alignment and Angle Sensor calibration. The process is the same for Stick or MIG welding except when of using the Stick Calibration Fixture (for Stick welding only).

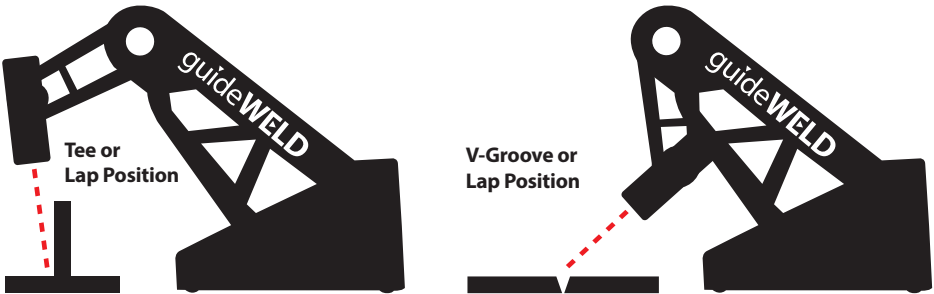
Speed Sensor Alignment

Joint/Coupon types

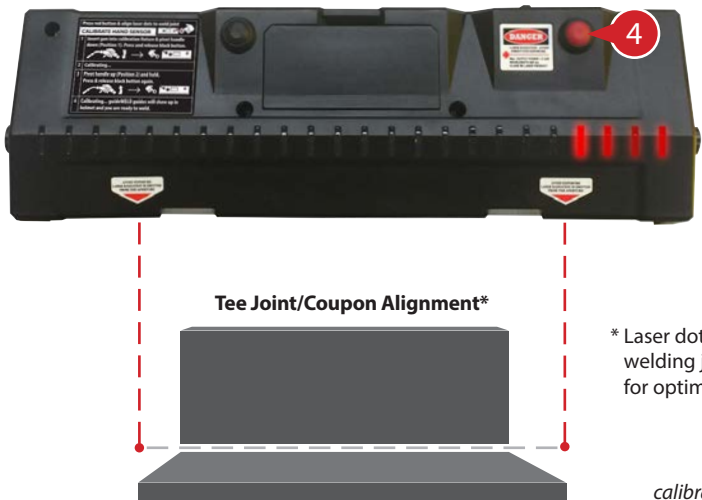
- 1. Tee (2F)
- 2. Lap (2F)
- 3. V-Groove (1G)



Based on chosen joint type, align Speed Sensor to welding coupon



- 4. Press the red alignment laser button and align laser dots to weld joint



* Laser dots must be within 1/2 inch of welding joint line (in front or behind) for optimal speed feedback.

calibration continued on next page >

CALIBRATION PROCESS (continued)

Angle Sensor Calibration

During calibration process and during weld, maintain a firm grasp on welding gun and Angle Sensor. For best results, keep Angle Sensor in the same location (between palm of hand/glove and welding gun) without movement.*

- 1. Tighten the Angle Sensor straps to the palm of your hand. Cover your hand and the Angle Sensor with a welding glove



OR

Cover your hand with the welding glove, then tighten the Angle Sensor straps to the palm of the glove-covered hand

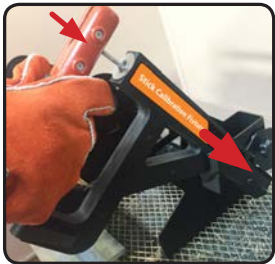


*Angle Sensor must be on palm side during welding for accurate guidance feedback.

- 2. Determine if welding left- or right-handed--use left side calibration fixture for left-handed users, or right side for right-handed users
- 3. Determine if calibrating for MIG or Stick process
 - a. For MIG, insert the welding gun into the calibration fixture
 - b. For Stick, insert the welding gun into the Stick Calibration Fixture



MIG Calibration Setup



Stick Calibration Setup

- 4. Tighten the small screw knob
 - a. For MIG, tighten so the welding gun nozzle can just slide in and out of the fixture with minimal clearance
 - b. For Stick, tighten on Stick Calibration Fixture so it cannot be easily be removed



5. Grasp the welding gun in the desired holding position, pivot handle down and hold

Insert gun into calibration fixture & pivot handle down (Position 1). Press and release black button.

1 2 3 4



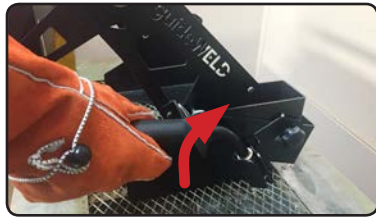
6. Press and release the calibration button on the Speed Sensor. The calibrating screen will display in the Helmet. Wait for first part of the calibration to complete before continuing



7. Pivot the welding gun handle up and hold

Pivot handle up (Position 2) and hold. Press & release black button again.

1 2 3 4



8. Press and release the calibration button on the Speed Sensor, the calibrating screen will display in the Helmet. Wait for first part of the calibration to complete before continuing



9. When calibration has completed, the in-helmet indicators will display*

10. Remove the welding gun and start the weld without adjusting the position of the Angle Sensor on the welding gun



* The Speed Guidance Display will not show until a weld has started. The Speed Sensor needs to detect an arc before turning on speed guidance.

NEED MORE HELP?

Battery Installation

The Helmet and Speed Sensor require two AA batteries. Each unit is shipped with rechargeable batteries installed. Four additional rechargeable batteries and a battery charger are included.

Helmet batteries



Speed Sensor Batteries



Additional Help and Information

Notice: From the factory, the guideWELD LIVE Helmet and Speed Board are bound together. If using multiple units and/or Helmet and Speed Sensor combinations have changed, a binding process is necessary. Find process in Complete User Guide.

Visit: www.realityworks.com/guideweldlive-downloads

1. Complete User Guide
2. guideWELD® LIVE curriculum
3. Available Standard WPS Lists and WPS Editor
4. Product Support tutorials and documents

Online Product Support

We're here to help! Our online Product Support features video tutorials, downloadable documents, frequently asked questions and product notices, all of which make it easy for you to get support for products, software and more, day or night. Find our online product support area here: www.realityworks.com/support/

Online Store

Supplies, accessories, select simulators, curriculum and more are available for purchase from our online store 24 hours a day!

Find our online store here: <http://store.realityworks.com>