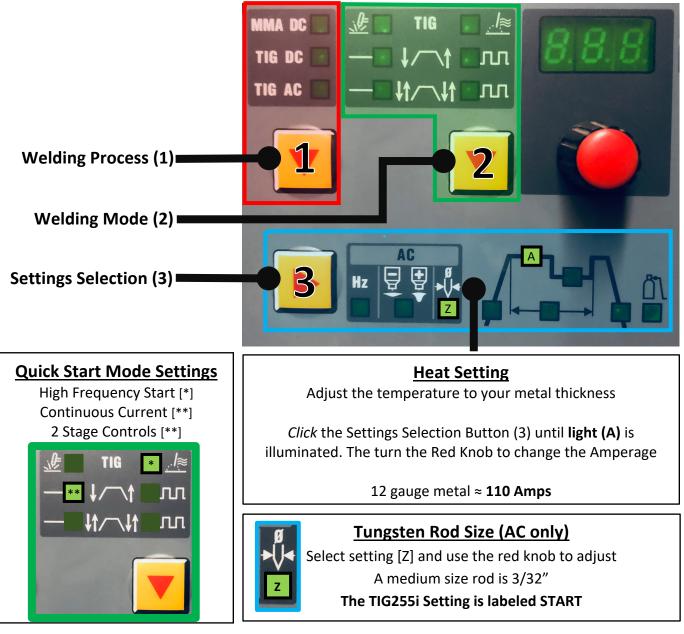
<u> Quick Start Guide – TIG150i and TIG255i</u>

The Snap on TIG series welders are extremely versatile machines with nearly endless user adjustability. The following is a quick guide to help you get started. Please note: The TIG machines advanced settings are intended for experienced welders

QUICK SET-UP

- 1. Install a 220v electrical plug
 - The Green/yellow wire is the Ground
 - The Blue wire and the Brown wire are hot wires
- 2. Install the foot switch or pedal and torch assembly
 - follow the instructions in your owner's manual.
 - If you are using the variable foot pedal, ALWAYS set the control mode to 2 stage
- 3. *Power on* using the **on/off Switch** on the back
- 4. Set up Gas Bottles with a Regulator and Adjust Gas Flow (recommended 30 CFM) (see below)
- 5. For the TIG255i The water-cooling system MUST be installed, or you will damage your welder



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Welding Process

There are 3 welding processes. Press the Process selection button (1) to cycle between options.

> TIG DC – Steel TIG Welding TIG AC – Aluminum TIG Welding MMA DC – Manual Metal Arc / Stick Welding

Mode Selection

Press the mode selection button (2) to cycles between each combination of mode variables.

There are 3 mode variables: Start Mode, Welding Mode and Control Mode. These options are not available when using MMA DC.

There will always be two lights illuminated: Start mode and a combination Welding/Control mode

Mode- Start



Scratch Start

To light the arc, press the torch trigger and touch the tungsten electrode to the work piece, then lift it. This move must be quick and decisive (0.3 sec.)



High Frequency Start

To light the arc, hold the torch tip slightly above the work piece and press the torch trigger: a pilot spark will light the arc without the need to touch the work piece.

Mode-Welding



Continuous Welding

The welding current stays constant while welding. Recommended for Steel





Pulsed Welding

The current quickly switches between high and low levels. Recommended to reduce warping on thin material



Mode Selection (Continued)

Mode-Control



Press and hold the trigger to weld, release the pedal to stop. If you are using the optional variable foot pedal always use 2 stage welding

√↓↑ 4 stage

Press and Release the trigger to begin welding. The current will continue until you press and release the trigger to stop welding

4 stage double level – TIG255i Only

The same as 4 stage with a second heat setting. Quickly press and release (< 0.7s) the trigger to toggle between heat settings. A longer press and release (>1s) will stop all current.

Adjustable Settings

Click the **Setting Selection Button (3)** to cycle between each adjustable welding parameter. Use the **Red knob** to change the value of the highlighted setting.



- [A] Main Heat Primary welding amperage (12 Ga ≈ 110 Amps)
- [B] Secondary Heat Low amperage during pulse mode (1/2 of [A])

[C] Slope Up - At start: Time from no power to Main Heat (0.0s)

- [D] Interval Time During Pulse Mode: Time between High and Low Heat (0.25s)
- [E] Slope Down At end: Time from Main Heat to no power (0.0s)
- [G] Post Gas At end: Gas flow period after welding (0.5s)

*The Tig255i also has a Pre Gas setting located on the left of the arc diagram

- [X] AC Frequency Fine Tuning: Changes the frequency of the current (90Hz)
- [Y] AC Penetration Adjusts the depth of the Weld (dependent on metal thickness)
- [Z] AC Tungsten Rod Diameter Set the Diameter of the Torch Rod (3/32" ≈ 0.093)

