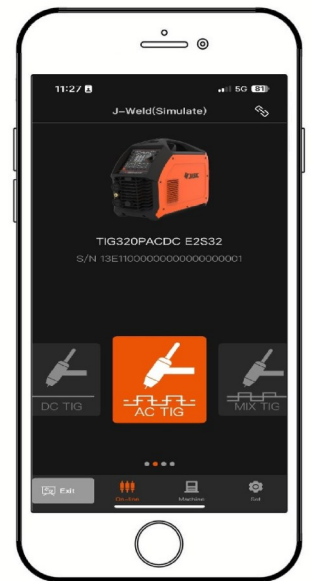




J-Weld App Instruction Manual



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Thank you for selecting this Jasic EVO 20 accessory.

This instruction manual has been designed to ensure that you get the most from your new Jasic product. Please ensure that you are fully familiar with the information provided within this instruction manual, as well as the product operating manual paying particular attention to all the safety precautions. This information will help protect you and others from potential hazards.

Please contact your Jasic distributor in the unlikely event of a problem with your Jasic product.

Please Note:

- Products are subject to continual development and may be subject to change without notice.
- Regularly check your app store provider for revision updates.
- No part of this manual may be copied or reproduced by any means without the written permission of Wilkinson Star Limited.
- This instruction manual should always be used in conjunction with the Jasic product operating manual.
- Regularly check www.Jasic.co.uk for operating manual revision updates.



Jasic.co.uk

Disclaimer

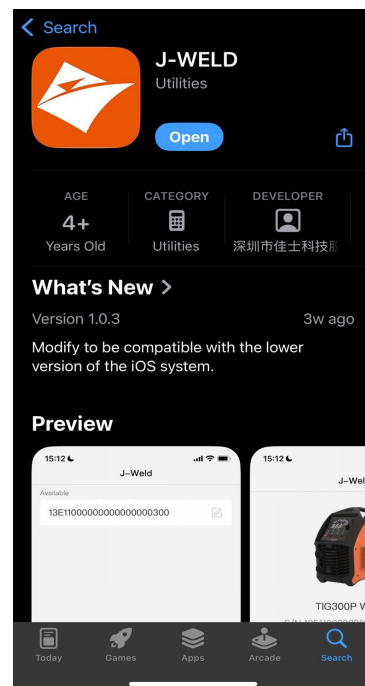
Whilst every effort has been made to ensure that the information contained within this instruction manual is complete and accurate, no liability can be accepted for any errors or omissions.

J-WELD APP INTRODUCTION

A feature of the Jasic 3-phase EVO product (as listed below) is being able to remote control your Jasic welding machine via our free Jasic weld mobile app which is downloadable from either the Apple app store or the Android app store.

Using the J-Weld mobile app to control your welding machine offers several benefits that enhance operator convenience, efficiency, and precision in welding operations. Here are some of the key purposes and advantages:

- Adjust welding parameters (current, voltage, wire speed, etc) from a distance, improving safety in hazardous environments.
- The app will display the machines real time data as well as status alarm conditions.
- Quickly change settings between jobs without physically accessing the machines user panel.
- Store and recall preset configurations for different materials or welding processes (MIG, TIG or MMA).
- Intuitive user friendly controls via smartphone/tablet simplify complex adjustments, especially for beginners.
- The J-Weld app connects to the machine wirelessly via Bluetooth enabling seamless communication with the welding machine which also reduces cable clutter.



To download our free app, search J-Weld in your device app store, then press the download icon to start the process of downloading and installing the J-Weld Mobile remote control application to your phone or tablet.

Please Note: To use the mobile App an optional transceiver is required to be fitted to the Jasic machine.

Remote Control Method	Suitable machine	Remote Control Function	Transceiver Required	Range
J-Weld Mobile App	EM-350CT	Adjustment of available MMA Features Adjustment of available DC TIG Features Adjustment of available MIG Features	Yes, Pt No: 51009435	30m (line of sight)
	EM-350S EM-350-WC EM-500S EM-500S-WC	Adjustment of available MMA Features Adjustment of available MIG Features	Yes, Pt No: 51009435	
	ET-300P ET-300P-WC	Adjustment of available MMA Features Adjustment of available DC TIG Features	Yes, Pt No: 51009434	
	ET-320PACDC ET-320PACDC-WC	Adjustment of available MMA Features Adjustment of available DC TIG Features Adjustment of available AC TIG Features	Yes, Pt No: 51009434	

Please Note:

- For further information regarding the operation/setup of remote control, please consult your EVO machine operating manual.
- Depending on whether you are using the Apple or Android version of the app, you may notice some differences. For the most part, this manual is based on the Apple version.
- This App instruction part of the manual is based on connecting to the ET-320PACDC Jasic machine. Navigating other Jasic machines is, in theory, very similar.

INSTALLATION OF MOBILE APP WIRELESS MODULE EM-350CT



The following operation requires sufficient professional and comprehensive knowledge of electrical circuits & electrical safety. Make sure the input cable of the machine is disconnected from the electricity supply and wait for 5 minutes before removing the machine covers.

Installation of wireless receiver module

The Wireless App remote control unit can be used with the following EVO machine models:

Jasic EVO ET-300P

Jasic EVO ET-320PACDC

Jasic EVO EM-350CT

Jasic EVO EM-350S & EM-500S

Wireless App receiver connection

An option with the EVO range of machines is for the operator to be able to control the welding controls via The J-Weld mobile app on a mobile device such as a mobile phone or iPad etc.

To enable this feature, you must install the optional mobile app interface module.

The mobile app module is supplied as shown below :



Mobile APP module part number 51009435 is compatible for the following Jasic EVO models:

- EM-350CT
- EM-350S
- EM-500S



Mobile APP module part number 51009435 is compatible for the following Jasic EVO models:

- ET-300P
- ET-320PACDC

The contents of each package are as follows:

1. Mobile APP Module
2. Sticky pad
3. Mounting bracket & screw.

Please Note: The mounting bracket and screw are optional, as the sticky pad is sufficient for installation.

The following pages will describe the installation instructions.

Please observe the detail below prior to installation. If in doubt please contact your product supplier.

- 1) Ensure the Jasic machine is unplugged from the power supply prior to starting this task.
- 2) Leave the machine for at least 5 minutes before removing any covers.
- 3) Remove the screws securing the right hand panel of the machine.
- 4) Carefully place the panel to one side.
- 5) You now have access to the inside front area of the machine.

INSTALLATION OF MOBILE APP MODULE EM-350CT



The following operation requires sufficient professional and comprehensive knowledge of electrical circuits & electrical safety. Make sure the input cable of the machine is disconnected from the electricity supply and wait for 5 minutes before removing the machine covers.

Installation of wireless receiver module

The Wireless Mobile App remote control unit can be used with the following EVO machine models:

EM-350CT APP Module Part No 51009435

Remove side panel:

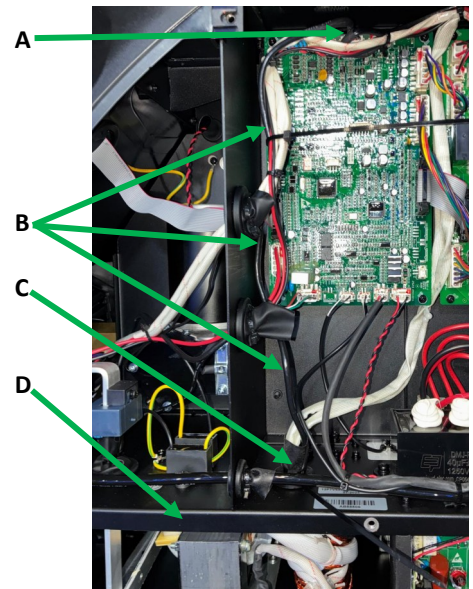
1. Remove the 8 screws of the right side panel of the EM-350CT MIG machine as shown right.

Qty 8 panel screws



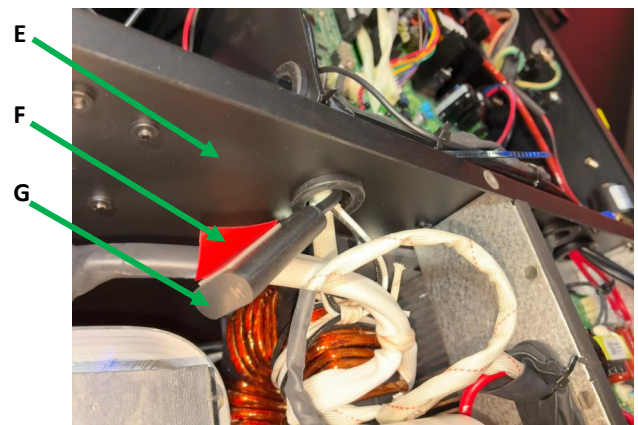
Routing and connecting the module cable:

2. Underneath the panel 'D' is the location where the module will be placed.
3. Cut the cable tie where the rubber seal is 'C'.
4. Then carefully push the module cable plug up through the rubber seal 'C' then route towards the top right side of the machine front.
5. Run the cable up along the other cables towards the top of the control PCB 'B'.
6. Connect the 6 pin connector into CN12 (APP module connector) 'A'.
7. Secure the module cable in place with a couple of cable ties 'B'.
8. Reseal the rubber seal with a cable tie 'C'.



Fixing the module:

- 9) The image right show the location 'E' where the module 'G' will be attached, ensure the area is clean.
- 10) Remove one side of the supplied sticky pad and stick it to the module (as shown right) 'F'
- 11) Remove the other side of the sticky pad and then fix the pad (and module) to the underside of the panel in the location area as shown right 'E' and press to ensure the sticky pad has bonded the module to the panel.



Replace side panel:

12. Locate the side panel back in place and then resecure using the 8 screws previously removed.

Mobile APP control.

You can now plug the machine back into your mains supply, turn the machine ON and then follow the

INSTALLATION OF MOBILE APP MODULE EM-350S & EM-500S



The following operation requires sufficient professional and comprehensive knowledge of electrical circuits & electrical safety. Make sure the input cable of the machine is disconnected from the electricity supply and wait for 5 minutes before removing the machine covers.

Installation of wireless receiver module

The Wireless Mobile App remote control unit can be used with the following EVO machine models:

EM-350S APP Module **Part No 51009435**

EM-500S APP Module **Part No 51009435**

Remove side panel:

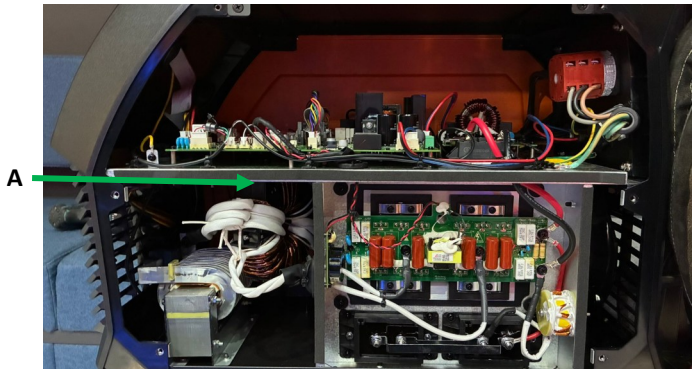
1. Remove the 8 screws of the right side panel of the EM-350S or EM-500S MIG machines (as shown right).

Qty 8 panel screws



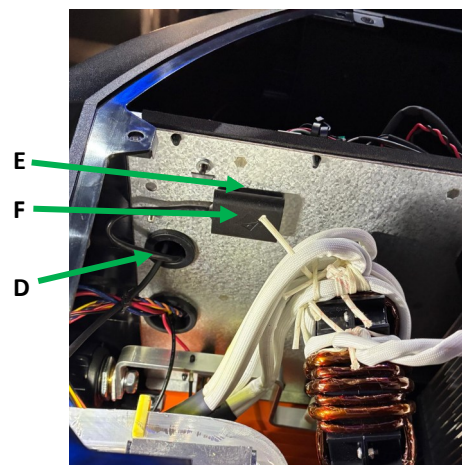
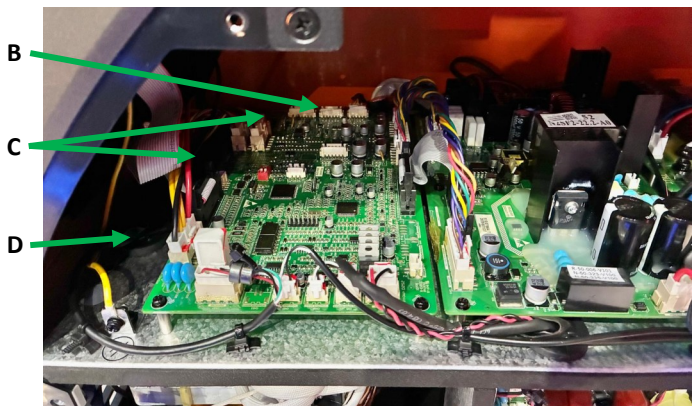
Routing and connecting the module cable:

2. Underneath the panel 'A' is the location where the module will be placed.
3. Cut the cable tie where the rubber seal is 'D'.
4. Then carefully push the module cable plug up through the rubber seal 'D' then route the cable 'C' along the front of the machine.
5. Run the cable 'C' up along the other cables towards the top of the control PCB 'B'.
6. Connect the 6 pin connector into CN20 (APP module connector) 'B'.
7. Secure the module cable in place with a couple of cable ties 'C'.
8. Reseal the rubber seal with a cable tie 'D'.



Fixing the module:

- 9) The image below right show the location 'E' where the module 'F' will be attached, ensure the area is clean.
- 10) Remove one side of the supplied sticky pad and stick it to the module 'E'.
- 11) Remove the other side of the sticky pad and then fix the pad (and module) to the underside of the panel in the location area as shown right 'F' and press to ensure the sticky pad has bonded the module to the panel.



Replace side panel:

12. Locate the side panel back in place and then re-secure using the 8 screws previously removed.

Mobile APP control.

You can now plug the machine back into your mains supply, turn the machine ON and then follow the details on APP installation and usage on page 3 and then from page 9 of this manual.

INSTALLATION OF MOBILE APP MODULE ET-300P



The following operation requires sufficient professional and comprehensive knowledge of electrical circuits & electrical safety. Make sure the input cable of the machine is disconnected from the electricity supply and wait for 5 minutes before removing the machine covers.

Installation of wireless receiver module

The Wireless Mobile App remote control unit can be used with the following EVO machine models:

ET-300P APP Module

Part No 51009434

Remove side panel:

1. Remove the 7 screws of the right side panel of the ET-300P TIG machine (as shown right).

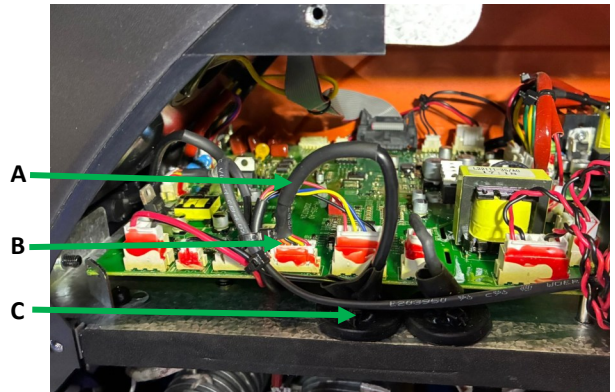
Please Note: If the product is the water-cooled model, the power source is required to be removed from the trolley first. This will give you access to remove the side panel.

Qty 7 panel screws



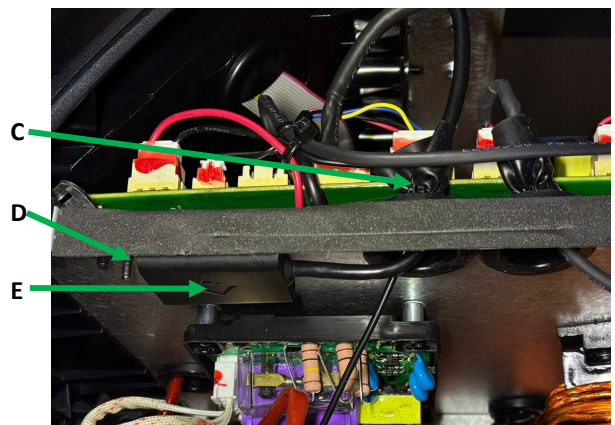
Routing and connecting the module cable:

2. Underneath the panel 'E' is the location where the module will be placed.
3. Cut the cable tie where the rubber seal is 'C'.
4. Then carefully push the module cable plug up through the rubber seal 'C' then route the cable 'A' towards the connectors of the control PCB.
5. Loop the cable towards the control PCB 'B'.
6. Connect the 6 pin connector into CN12 (APP module connector) 'B'.
7. Secure the module cable in place with a cable tie that will also re-seal the rubber seal 'C'.



Fixing the module:

- 8) The image right show the location 'E' where the app module will be attached, ensure the area is clean.
- 9) Remove one side of the supplied sticky pad and stick it to the module 'E'
- 10) Remove the other side of the sticky pad and then fix the pad (and module) to the underside of the panel in the location area as shown right and press to ensure the sticky pad has bonded the module to the panel.



Replace side panel:

11. Locate the side panel back in place and then resecure using the 7 screws previously removed.

Mobile APP control.

You can now plug the machine back into your mains supply, turn the machine ON and then follow the details on APP installation and usage on page 3 and then from page 9 of this manual.

INSTALLATION OF MOBILE APP MODULE ET-320PACDC



The following operation requires sufficient professional and comprehensive knowledge of electrical circuits & electrical safety. Make sure the input cable of the machine is disconnected from the electricity supply and wait for 5 minutes before removing the machine covers.

Installation of wireless receiver module

The Wireless Mobile App remote control unit can be used with the following EVO machine models:

ET-320PACDC APP Module Part No 51009434

Remove side panels:

1. Remove the 7 screws from each of the side panels of the ET-320PACDC TIG machine (as shown right).

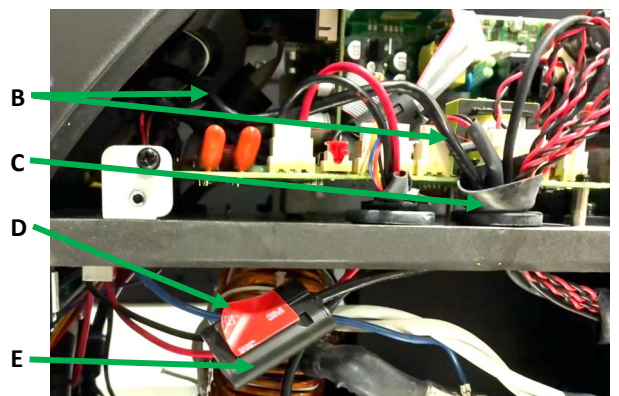
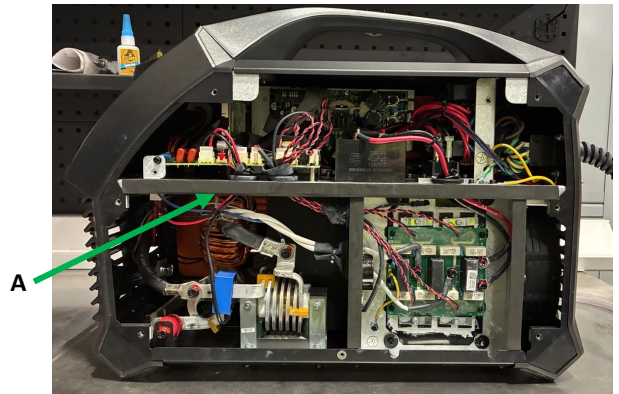
Please Note: If the product is the water-cooled model, the power source is required to be removed from the trolley first. This will give you access to remove the side panels.

Qty 7 panel screws



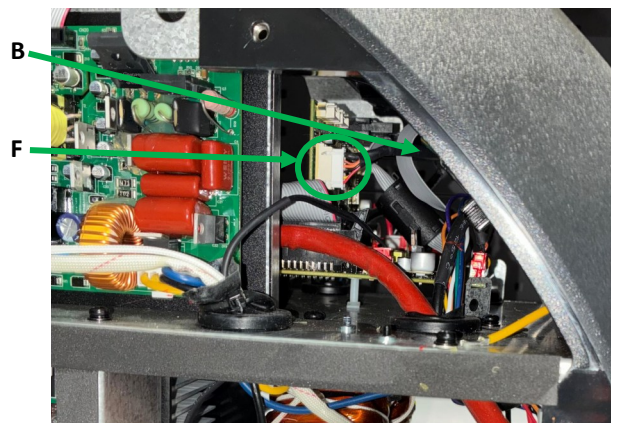
Routing and connecting the module cable:

2. Underneath the panel 'A' is the location where the module will be placed.
3. Cut the cable tie where the rubber seal is 'C'.
4. Then carefully push the module cable plug up through the rubber seal 'C' then route the cable 'B' towards the left side of the machine front.
5. Loop the cable towards the front of the control PCB 'B'.
6. Connect the 6 pin connector into CN3 (APP module connector) 'F'. This is achieved by accessing the control PCB connector from the left hand side of the machine.
7. Secure the module cable in place with a cable tie where required and then also re-seal the rubber seal 'C' with another cable tie.



Fixing the module:

- 8) 'A' is the location 'E' where the app module will be placed and attached, ensure the area is clean.
- 9) Remove one side of the supplied sticky pad and stick it to the module 'D'
- 10) Remove the other side of the sticky pad and then fix the pad (and module) to the underside of the panel in the location area as shown right and press to ensure the sticky pad has bonded the module to the panel.



Replace side panel:

11. Locate both side panels back in place and then resecure using the 7 screws previously removed.

Mobile APP control.

You can now plug the machine back into your mains supply, turn the machine ON and then follow the details on the APP installation and usage on page 3 and then from page 9 of this manual.

J-WELD APP CONNECTIVITY

Once the J-Weld app has downloaded and installed into your device. Press the app icon  on your device to open the app and once initialization is complete, the app will open and the following screen options will be shown below:

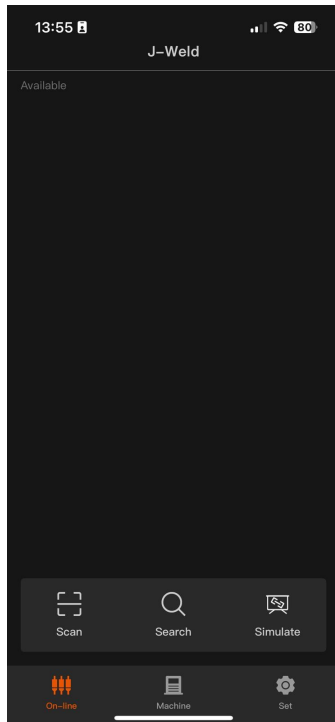


Image 1

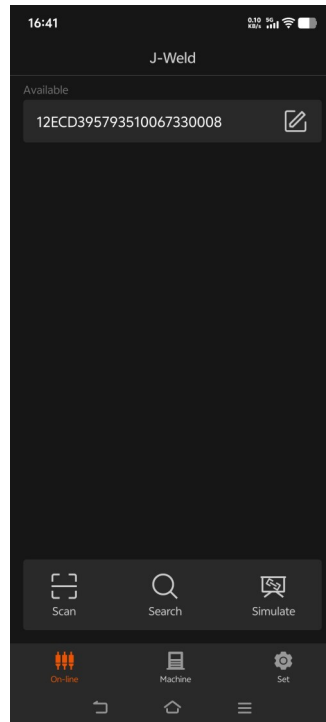


Image 2

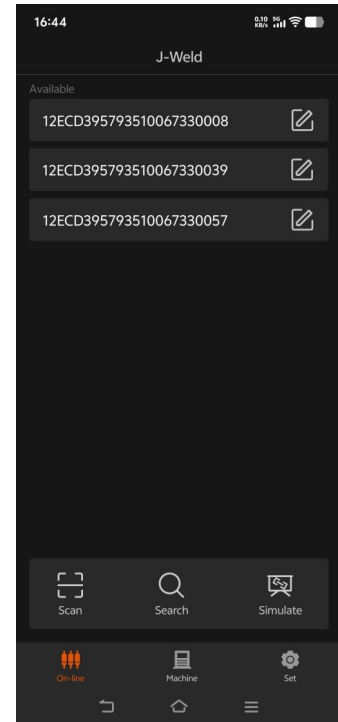


Image 3

Upon app activation, the app will scan for available Jasic machines that have the APP module installed and that are turned ON in the immediate vicinity to where you are located, if there are no machines located then image 1 above will reflect this.

Pressing the 'Search' option will scan the immediate area for Bluetooth-enabled Jasic welding machines.

When the app scans and finds a Jasic machine previously connected, the screen will display the serial number of said product, as the example screenshot shows above (image 2).

If the app scans and locates multiple machines, then the screenshot shown in image 3 will be noted.

Please Note:

- A useful feature of the J-Weld app is to try the app in simulation mode, this allows you to try the app without actually connecting to a Jasic machine.
Pressing the 'simulate' screen option will allow you to select the relevant Jasic product you wish to try i.e. ET-300P, ET-320PACDC or the EM-350C machines and navigate your way through the features and functions of the app as if you were actually controlling the Jasic machine.
- Depending if you are using the Apple or Android version of the app, you may note some layout or graphic differences, for the most, this manual is based on a combination of the Apple and the Android app versions.

J-WELD APP CONNECTIVITY

Continuing from the previous page, whether the App shows listed machines or not and you are wanting to connect to a new Jasic machine, first you need to ensure that the machine is in front of you, has the wireless mobile app transceiver installed within it and the machine is turned ON.

Pressing the 'scan' option (as shown in image 4 below) will activate your device camera.

Ensure you line up the serial number within the 'lined' section of the screen, this will ensure that the serial number is scanned quickly by your mobile device.

The serial number/barcode is generally located on the power source panel or lid as shown below in image 4.

Please Note:

During scanning mode, you do have the option to turn on the device torch to enhance the scanning of the serial number, this helps if the machine is located in a dark area.

Once your device scans and reads the serial number, your device will start the process in establishing a Bluetooth connection between your device and the Jasic machine (as shown in image 4 below).

Please Note:

If the machine is turned OFF or does not have the app transceiver fitted then your mobile device will not wirelessly connect the machine.

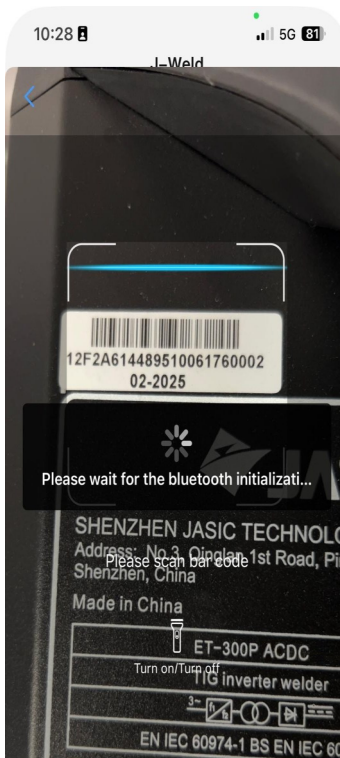


Image 4

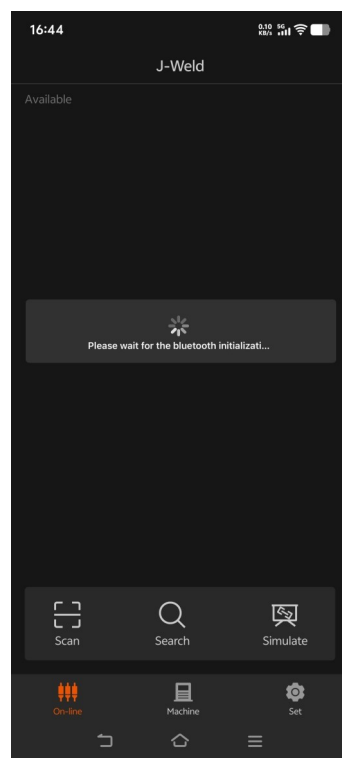


Image 5

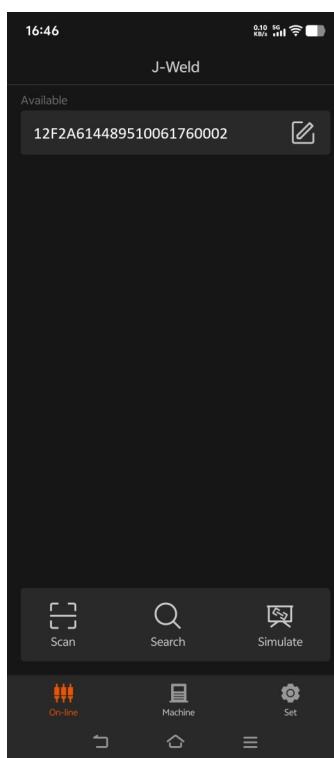


Image 6

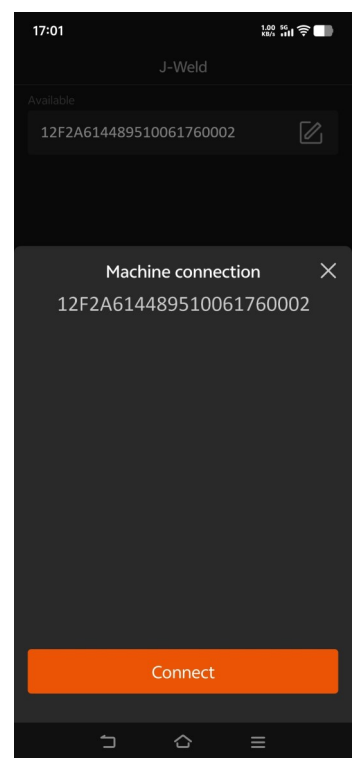


Image 7

Once your device has established the wireless connection to the Jasic machine, image 6 above shows the screen that you will see.

Pressing the matching serial number link on the screen will start the process of opening the connection to the machine you are trying to remote control connect with.

You will then have to confirm connection as shown in image 7 by pressing the 'Connect' on the device screen.

You will then enter and have full access to the J-Weld App.

J-WELD APP FUNCTIONALITY

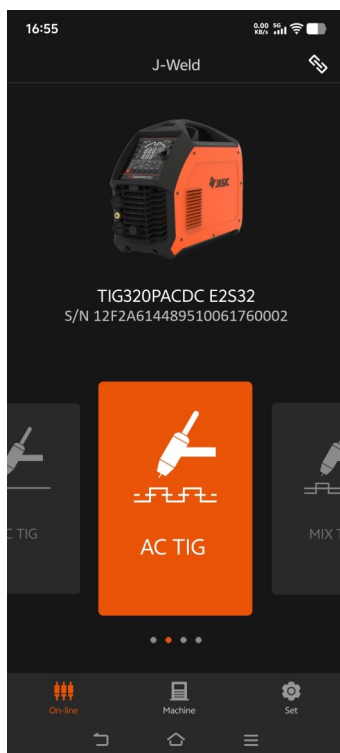


Image 8

Image 8 (left) shows the opening screen once a successful connection between mobile device app and Jasic machine has occurred.

Following successful connection between the APP and the connected welding machine, the icon  will be displayed in the upper right section of the screen as shown left.

From here you will be able to navigate your way around the remote app interface and the following pages will guide you through this process.

In this screenshot shown left, you have the option to open which welding process is required, swiping either left or right will show the options available. As an example, for the ET-320PACDC, the choices are:

- DC TIG
- AC TIG
- MIX TIG
- MMM

As shown left, AC TIG is front and centre, pressing this welding process icon will open the AC TIG welding process setup and all the welding options of the machine you are connected to.

Upon pressing the required welding process, as our example shows 'AC TIG' you will be presented with an image of the configuration setup of AC TIG to ensure you have connected the TIG torch, work return lead and gas connections correctly.

Parameter adjustment

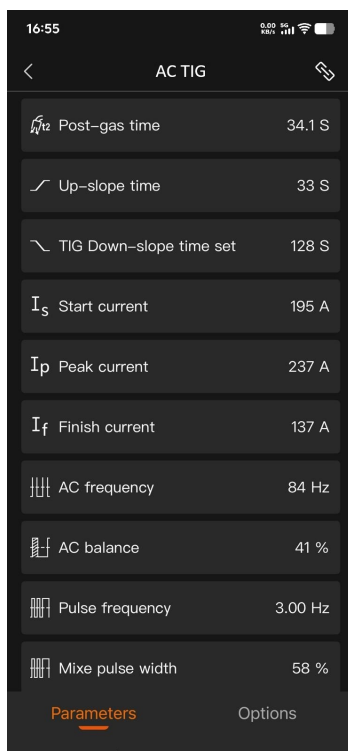


Image 9

With the App and welder connected successfully, the screenshot left (image 9) shows at this time the selectable parameters of AC TIG welding of the machine through App.

Depending on the Jasic machine connected, different adjustable parameters will be available, but navigating the app will follow the same principles.

Pressing on a selected parameter will allow you to adjust that parameter by opening up a pop-up window which offers an additional interface that contains a linear sliders arrangement as well as single-step '+' increment as well as '-' decrement and the following pages will explain this in more detail.

Please Note:

Any parameter changes made via the mobile app will be immediately reflected on the Jasic machine's control panel.

Any parameter changes that are made directly from the Jasic machine user panel will also be updated immediately within the mobile device app.

J-WELD APP FUNCTIONALITY

Adjustment of numerical parameters

Parameter selection

Press to select the target parameter, and a pop-up window will open up directly below that parameter of the interface when it is selected, which contains linear sliders, single-step increment/decrement, and parameter boundaries.

Pressing on the selected parameter again deselects it and the pop-up window will close.

In the parameter selection area you can scroll up and down to find the target parameter.

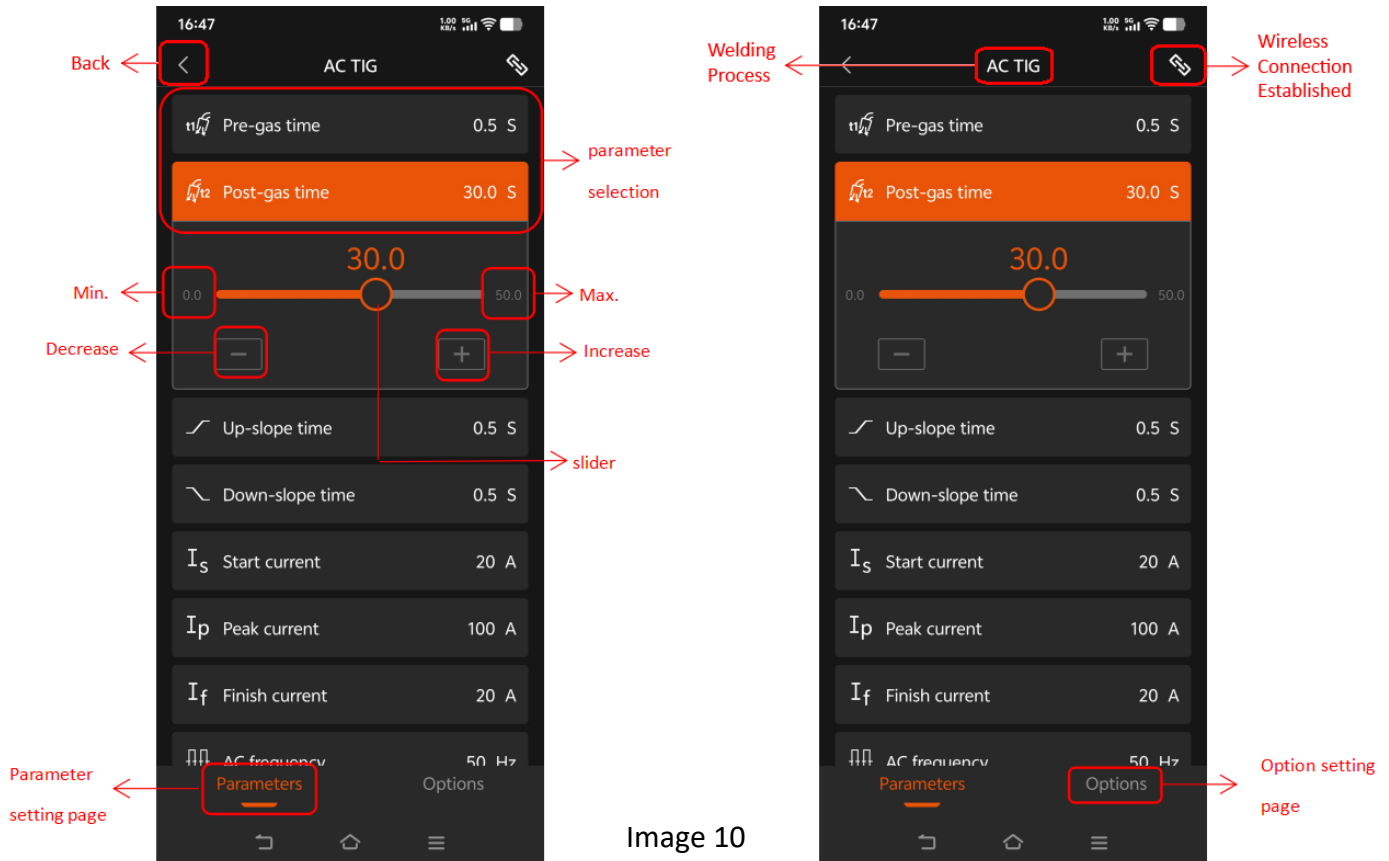


Image 10

Linear sliders

After selecting a parameter, a slider will appear directly underneath the interface, use the slider left to decrease the parameter setting and right to increase the parameter setting of the parameter selected.

The linear sliding bar is divided into indicator bar and sliding dot. Holding the finger down the dot will allow you to quickly slide left and right to adjust the parameters.

Pressing the '+' and '-' icons (single-step incremental and decremental icons) on either side of the slider allows for slow and precise parameter adjustments.

Parameter boundary

When the parameter is selected, a pop-up window will appear at the bottom of the interface, and the numbers on both sides of the pop-up window are the minimum (left) and maximum (right) values of the currently selected parameter.

Adjustable parameters during welding

When welding, only the welding current, wire feed speed, and/or welding voltage (for example) are Adjustable, other parameters in the interface area are not adjustable and will appear grayed out.

J-WELD APP FUNCTIONALITY

Status parameter adjustment

From the numerical parameter adjustment page you can switch to the status parameter adjustment page shown in image 10 (shown on the previous page).

Parameter selection

Press to select the target parameter, and the parameter options menu pops up below the parameter. Pressing the selected parameter again will hide the parameter options menu. You can slide up and down in the parameter selection area to find the target parameter.

Options menu

From here, you can scroll through all the welding process options available to you that are specific to the welding process you are currently in. Pressing the screen option will open up an expanded pop up screen with the available choice options.

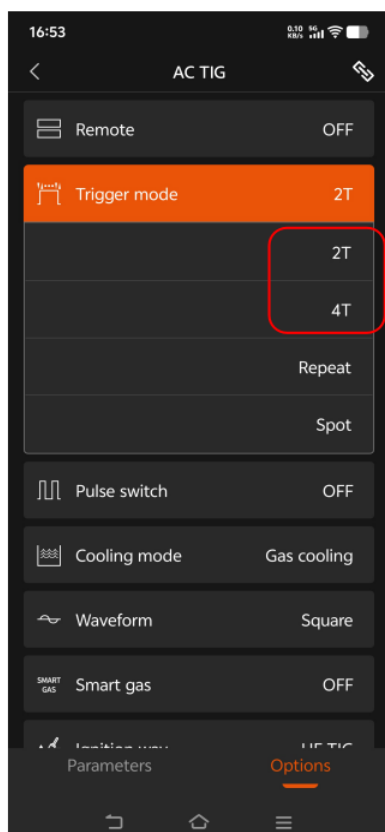


Image 11

In the example shown left, pressing the screen target parameter of 'Trigger mode' opens up the parameter expanded pop-up screen menu.

Below an expanded pop-up will appear and depending on your choice, pressing on the screen options of:

- 2T
- 4T
- Repeat
- Spot

will change the target option.

Pressing the option 'Trigger mode' again will close the expanded menu and save your choice of option setting.

Numeric parameter page switching

Press the 'parameter' icon at the bottom left (see image 11 above) of the status parameter adjustment screen page to switch to the numerical parameter adjustment page.

Welding mode selection

In the numerical parameter/state parameter adjustment interface, press  in the upper left corner to take you back to the welding mode selection interface as shown in image 8.

In the welding mode selection interface, slide left and right to select 'TIG', 'MMA' or 'MIG' the three welding modes, which will take you into the numerical parameter adjustment interface.

J-WELD APP FUNCTIONALITY

User Manual

Following pressing the 'Machine' screen option, The machine options will appear in a new screen as shown below in image 12. For example pressing 'User manual' will open up a guide to the user manual, as shown in image 13.

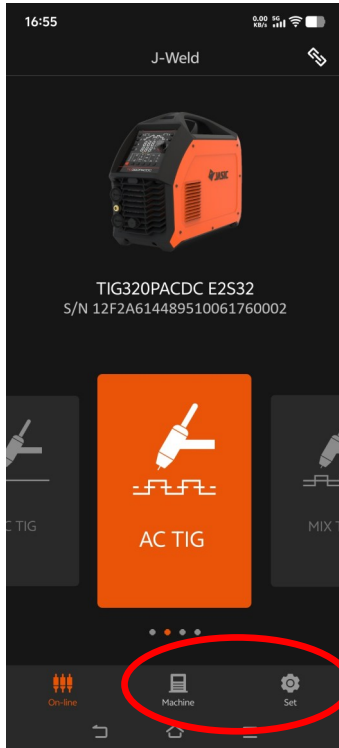


Image 12

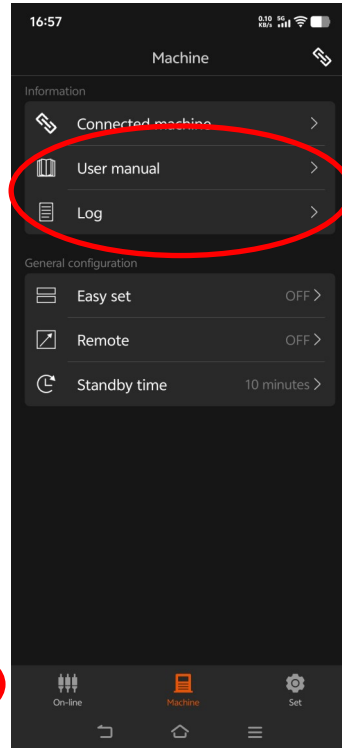


Image 13

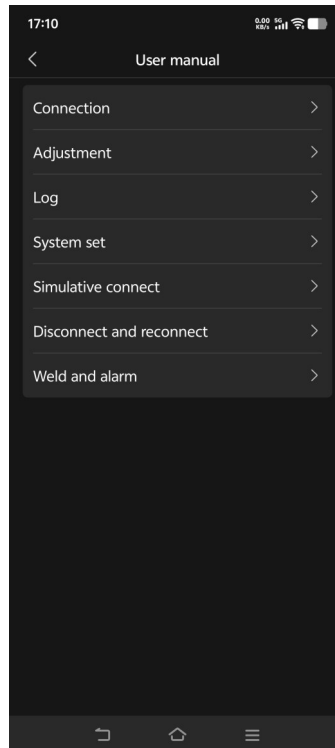


Image 14

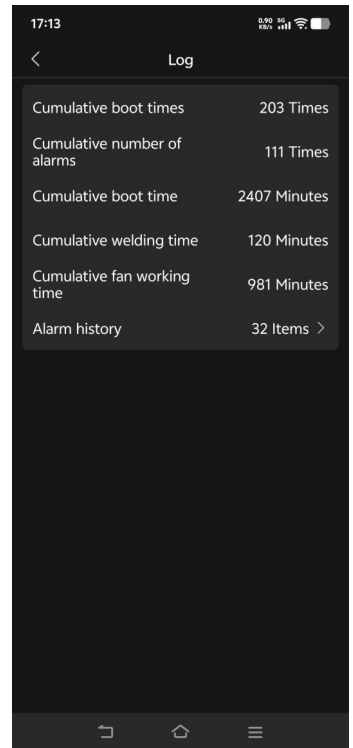


Image 15

Machines Work Log

Within the app machine screen option as shown above (image 13) you have the option to select Log, this is a detailed section showing the machines work log.

Once selected you will see various log options (see image 15) that displays the cumulative work data, including: Total boot up times, total number of alarms, ON time and welding time and even includes 'Alarm history' where you can view specifically recent alarm/error issues with the machine.

Alarm History

Within the Work log option you can view all previous alarm codes of errors that the machine has experienced. This feature can assist with fault finding.

Language Selection

Available language options are available within the 'Set' screen interface (as shown in image 12 above), Once you have pressed the screen option, you will be presented with various background settings which includes language selection, background app colour and software version.

Pressing, 'Language Selection' will allow you switch between the available system languages which currently are English and Chinese. Further languages will become available.

J-WELD APP FUNCTIONALITY

Real-Time Welding

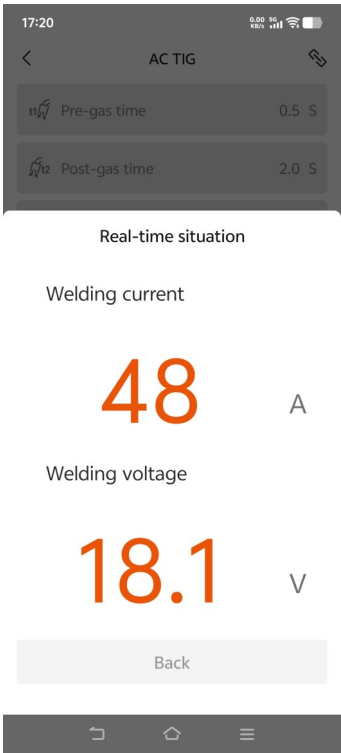


Image 16

After the App has successfully connected to a compatible Jasic welding machine and the operator starts welding in any process, the App is capable of showing the real-time welding data.

Image 16, (shown left) shows an example of actual welding amperage and actual welding voltage.

Once welding is finished, the app will display the welding data for a short period, mirroring the behaviour of the machine's digital control panel.

Real-Time Alarm

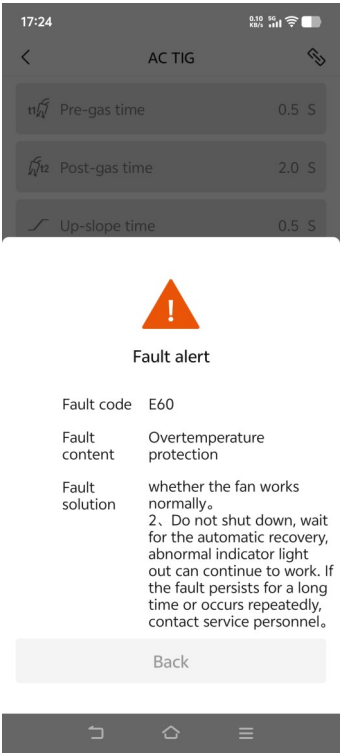


Image 17

After the App has successfully connected to a compatible Jasic welding machine and the operator starts welding in any process and an alarm condition is triggered and an alarm status is shown on the machines use screen, the error situation will also appear in the App interface as shown left in image 16.

Until the welder stops welding or returns to normal state, the APP will remain in the alarm state and will not respond to operator input.

As an example, image 17, left is displaying a fault alert complete with the error code and error details shown underneath.



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