How to connect Powermax105&125 with Voyager/Cruiser-mini

• The Powermax105&125&125 connect to Voyager/Cruiser-mini, 6 wires need to be connected.

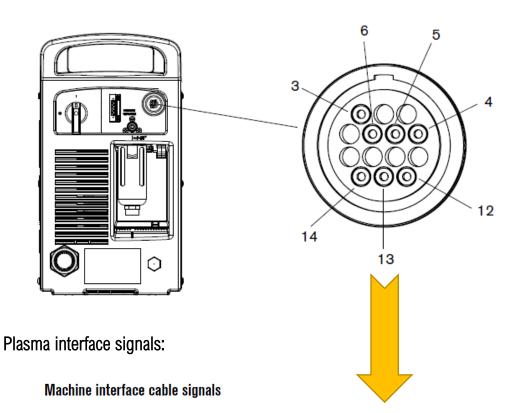
Machine connect terminal:

Machine	Aviation plug	Terminal No.	Description	
Voyager/Cruiser- mini connect terminal	4-core	START	The CNC plasma arc initiation signal	
		START		
		TRANS/FEEDBACK	Notifies the CNC that an arc transfer	
		TRANS/FEEDBACK	has occurred	
	2-core	ARC+	The CNC are voltage signal	
		ARC-	The CNC arc voltage signal	



POWERMAX105&125 connect terminal:

Note: The customer needs to connect the power cable according to the actual plasma models.

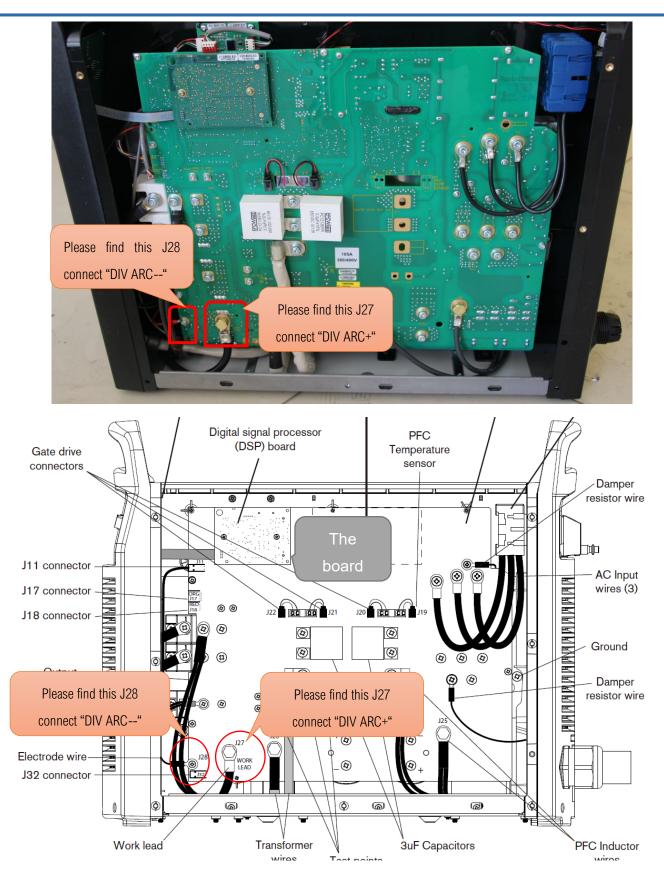


Refer to the following table for the cable signal details when connecting the power supply to a torch height controller or CNC controller with a machine interface cable.

Signal	Туре	Notes	Connector sockets	External cable wires	Internal cable wires
Start (start plasma) Input		Normally open.	3	Green	Black
	Input	15 VDC open circuit voltage at START terminals. Requires dry contact closure to activate.	4	Black	Red
Transfer (start machine Ou motion)		Normally open. Dry contact closure when the arc transfers. 120 VAC / 1 A maximum at the machine interface relay.	12	Red	White
	Output		14	Black	Green
Voltage divider		Divided arc signal of 20:1, 21.1:1, 30:1, 40:1, 50:1 (provides a maximum of 16 V).	5 (-)	Black (-)	Black (-)
	Output		6 (+)	White (+)	Red (+)
Ground	Ground		13		Green/yellow

The original arc voltage position of the plasma power supply:

Service Support Spirit



NOTES 1: Positive electrode (J27) of Plasma power is connected the ground wire. and check it

by multimeter. If **[**J27**]** is not connected the ground wire, please find the other port.

Unique Solution

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Negative electrode(J29) of Plasma power is connected the plasma torch. and check it by

multimeter; If **[**J29**]** is not connected the ground wire, please find the other port.

• Cable connecting method:

	Terminal No.	Corresponding interface of	The interface		
	Terminal No.	POWERMAX105&125	position		
Voyager/Cruiser- mini connect terminal	START	3 Input Start			
	START	4 Input Start			
	TRANS/FEEDBACK	12 Output Transfer	POWERMAX10		
	TRANS/FEEDBACK	14 Output Transfer	– 5&125 – Interface		
	ARC+	Positive electrode (workJ27)	пцепасе		
	ARC-	Negative electrode(J29)			

• Connect the machine to the plasma signal with terminal blocks:

