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	<h2>Matching Interface (based on C3): Pin Descriptions</h2>	Rev. date 30-Oct-06	Rev. A 04

**Products: Power Generators with C3 Technology  
(manufactured since September 2002)**  
**Subject: Matching Interface – Pin Layout and Description**

This Interface connector allows full communication between a Dressler Power Generator with C3 technology (CESAR, DTG , LFGS , LFGC series) and a Dressler VARIOMATCH Autotuner. The following table provides the connector pin-out for the matching interface connector on the generator.

**Connector Type**                      15-pin subminiature-D, shielded, female.

Pin	Signal Name	Signal Type	Signal Description
1	GROUND	Chassis Ground	Connect to the shield of the cable
2	DECREASE $C_{Load}$	Digital Output	This open collector output (30 V max, 8 mA max) is connected to ground to decrease $C_{Load}$ .
3	INCREASE $C_{Load}$	Digital Output	This open collector output (30 V max, 8 mA max) is connected to ground to increase $C_{Load}$ .
4	DECREASE $C_{Tune}$	Digital Output	This open collector output (30 V max, 8 mA max) is connected to ground to decrease $C_{Tune}$ .
5	INCREASE $C_{Tune}$	Digital Output	This open collector output (30 V max, 8 mA max) is connected to ground to increase $C_{Tune}$ .
6	GROUND	Chassis Ground	
7	nc	-	
8	MANUAL MODE	Digital Output	This open collector output (30 V max, 8 mA max) is connected to ground to switch the matchbox to manual mode.
9	GROUND	Chassis Ground	
10	nc	-	
11	+15 V SENSE	Input	This is connected to the +15 V output voltage of the matchbox and indicates if a matchbox is connected.
12	DC-BIAS	Analog Input	This pin reads out a test voltage of the DC self bias scaled down to 0 V to 10 V. 4kV bias voltage is equal to 10V test voltage and is displayed at the front panel as 4000 V. <i>Note: The scaling of the DC bias voltage can be changed with the front panel menu.</i>
13	$C_{Tune}$ POSITION	Analog Input	The voltage at this 0 V to 10 V analog input is proportional to the position of the capacitor Tune. 10V at this pin is equal to 100.0% on the display on the front panel.
14	$C_{Load}$ POSITION	Analog Input	The voltage at this 0 V to 10 V analog input is proportional to the position of the capacitor Load. 10V at this pin is equal to 100.0% on the display on the front panel.
15	MATCHING ACTIVITY	Digital Input	If this input is switched to ground the matchbox is considered active (motors are running). If it floats the matchbox is considered inactive.

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