

Replacing Hitachi E-Compact BB Amplifiers BB & BB2 (BB = BroadBand)

The E-Compact amplifier modules are hot-swappable and do not require the transmitter to be shutdown before replacing or swapping amps. However, the amps themselves need to be turned off while being replaced or swapped.



BB & BB2 BroadBand Series Power Amplifier

Procedure

- 1. Shut off the three power switches on the front of the amplifier chassis.
- 2. Remove the four rack mount screws securing the amplifier.
- 3. Pull the amplifier forward to slide it out.
- 4. Remove the defective amp, supporting the amp as you pull it out to avoid damaging the connectors on the rear of the transmitter.

Warning: Verify that all three of its power switches on the front are set to OFF before performing the following steps.

- 5. Gently but firmly insert the replacement amplifier into the slot, pushing the amp completely into the shelf so that it seats properly into the transmitter.
- 6. Reinstall the four rackmount screws.
- 7. Set the three power switches on the front panel of the replacement amp to ON. The amplifier powers on and the transmitter returns to full power.
- 8. After the transmitter is operating, it is recommended to go into the Control Module or the Control Module's Power Amplifier Measurements web page and check operating parameters for any abnormalities. In particular, the current readings on pallets PA1-PA8 should be checked.

Non BroadBand E-Compact amplifiers

While similar looking to BB series amps, the original, non-broadband amps have a single power switch on the front. A single power supply is in the same location but is removed from the rear and has a handle on the rear for its removal.





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Power Amplifier Measurements Page

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	r. Alarms	Past Ale	arms							
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		Po	Power Supply 1 Measurements							
Input Voltage	218.5 [Vac			100.0 [°F]		Software Version		PAM30002v1.00		
Output Voltage	50.7 [Vdc]	Output Current		14.24 [A]				_		
	TITTT	Po	wer Supply	2 Me	asurem	ents				
Input Voltage	223.0 [Vac] Ter	Temperature		98.6 [%]		Software Version		PAM30002v1.00	
Output Voltage	50.6 [Vdc]	Output Current		14.1	14.17 (A)					
		Po	wer Supply	3 Me	asurem	ents				
Input Voltage	221.6 [Vac		Temperature		97.7 [%F]		Software Version		PAM30002v1.00	
Output Voltage	foltage 50.4 [Vdc				14.27 [A]					
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Input Voltage Temperature	50.6								+7.1 [dBm] +42.8 [dBm	
Software Versio		PAM30002v1.00		er ourient en		[A] Its conpute		Crei	142.0 [0011]	
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			ver Amplifie	22.4.78.22		100000000				
Module	Current (A)		Temperature [°F]		Vgs Peak [V]		Vgs Carrier [V]		Software Version	
PA1	5.38	119.8		0.324		1.625		PAM30002v1.00 PAM30002v1.00		
PAZ	5.58	-	120.2		0.324		1.654		PAM30002v1.00 PAM30002v1.00	
PA4	5.70		117.3		0.324		1.661		PAM30002v1.00	
PA5	5.94	117.9		0.320		-			PAM30002v1.00	
PA6	5.76	118.9		0.327		-	1.656		PAM30002v1.00	
PA7	5.87	118.6		0.324			1.632		PAM30002v1.00	
PAB	5.82	117.9		0.	0.320		1.651		PAM30002v1.00	
			Conoral h	laseur	amonto					
	Nut Air Temo 71.5 P				5880 [mm]		VGS Peak		0.30 [V]	
Incut Air Temp	71.6.196	T FA	N1 Rotation	588	1 Ecoronia					
Input Air Temp	. 71.6 P		N1 Rotation	-	0 (mpm)	-	rent Carrier		0.30 [A]	