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" AFFORDABLE REPEATER CONTROL SOLUTIONS "

Doug Hall RBI-1 Adapter Module

The RBI-1 adapter module is used to simplify the connection of an RBI-1 interface to the FF-800 repeater controller. Its installation is relatively straightforward:

- Remove the top cover of the FF-180f chassis. Locate the SPI connector on the back-panel of the chassis and remove the jack screws which hold it in place.
- Orient the Doug Hall adapter so that P2 occupies the original chassis cutout as the SPI connector. Secure the adapter with the two jack screws (the nuts and washers are not used).
- Connect the SPI connector to P1 of the Doug Hall adapter.
- Using some 22AWG stranded hook-up wire, measure several lengths and prepare with Molex crimp pins (the provided pins are for the Doug Hall adapter, you must also use some of the pins that were originally supplied with the controller). The following table describes the lengths required:

<u># wires</u>	<u>From</u>	<u>TO</u>
2	adapter P3	FF-800 P2
2	adapter P3	FF-800 P4
1	adapter P3	FF-800 P5 (RBI-1 reset, optional)
1	adapter P3	FF-800 P9 (Smeter, optional)
1	adapter P3	FF-800 P2 or P4 (whichever has pin 9 available, optional GND connection)

Connect these wires using Molex housings provided with the FF-800 (Note: some housings may already be installed on the FF-800).

<u>Adapter(P3)</u>	<u>FF-800</u>	<u>Signal Name</u>
1	P2-7	RX-D audio
2	P2-8	RX-D COS
3	P4-7	TX-D audio
4	P4-8	TX-D PTT
5	P5-1	Output #1
6	P9-1	Analog input #1
7	P2-9 (or P4-9)	GND (optional)

Follow directions in the FF-800 manual to configure the system for the RBI-1 system.

