

RBC-751b Barrier Strip Connections

Barrier Strip A

1. Repeater Rx Disc Audio Low
2. Repeater Rx Disc Audio High
3. Link 1 Rx Disc Audio Low
4. Link 1 Rx Disc Audio High
5. Link 2 Rx Disc Audio Low
6. Link 2 Rx Disc Audio High
7. Link 3 Rx Disc Audio Low
8. Link 3 Rx Disc Audio High
9. Link 4 Rx Disc Audio Low
10. Link 4 Rx Disc Audio High
11. Link 5 Rx Disc Audio Low
12. Link 5 Rx Disc Audio High
13. 6 Meter Rx Disc Audio Low
14. 6 Meter Rx Disc Audio High
15. Telephone Line
16. Telephone Line

Barrier Strip C

1. Repeater PTT Output
2. Link 1 PTT Output
3. Link 2 PTT Output
4. Link 3 PTT Output
5. Link 4 PTT Output
6. Link 5 PTT Output
7. 6 Meter PTT Output
8. Spare PTT Output
9. Fan Control Logic Output
10. Repeater PA Logic Output
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

Barrier Strip E

1. Repeater COS Logic Input
2. Link 1 COS Logic Input
3. Link 2 COS Logic Input
4. Link 3 COS Logic Input
5. Link 4 COS Logic Input
6. Link 5 COS Logic Input
7. 6 Meter COS Logic Input
8. Repeater CTCSS Decoder Logic Input
9. Alarm Sense Logic Input
10. External Fan Control Logic Input
11. External PTT Logic Input
12. Link 1 CTCSS Decoder Logic Input
13. Link 2 CTCSS Decoder Logic Input
14. Link 3 CTCSS Decoder Logic Input
15. Link 4 CTCSS Decoder Logic Input
16. Link 5 CTCSS Decoder Logic Input

Barrier Strip B

1. Repeater Tx Audio Low
2. Repeater Tx Audio High
3. Link 1 Tx Audio Low
4. Link 1 Tx Audio High
5. Link 2 Tx Audio Low
6. Link 2 Tx Audio High
7. Link 3 Tx Audio Low
8. Link 3 Tx Audio High
9. Link 4 Tx Audio Low
10. Link 4 Tx Audio High
11. Link 5 Tx Audio Low
12. Link 5 Tx Audio High
13. 6 Meter Tx Audio Low
14. 6 Meter Tx Audio High
15. Auxiliary Audio Low
16. Auxiliary Audio High

Barrier Strip D

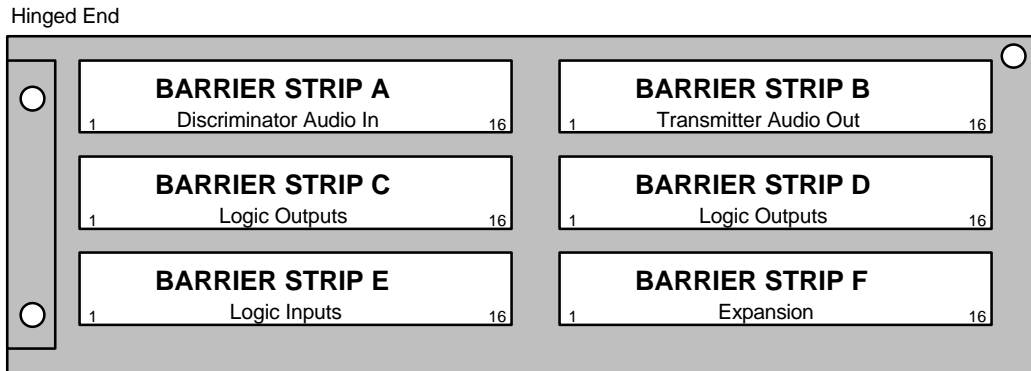
1. UIF 1 Logic Output
2. UIF 2 Logic Output
3. UIF 3 Logic Output
4. UIF 4 Logic Output
5. UIF 5 Logic Output
6. UIF 6 Logic Output
7. UIF 7 Logic Output
8. UIF 8 Logic Output
- 9.
- 10.
- 11.
- 12.
- 13.
14. 6 Meter Strobe Output
15. Remote Serial Clock Output
16. Remote Serial Data Output

Barrier Strip F

1. A/D Input 1
2. A/D Input 2
3. A/D Input 3
4. A/D Input 4
5. A/D Input 5
6. A/D Input 6
7. A/D Input 7
8. A/D Input 8
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

Barrier Strip Layout

The diagram below shows a view of the six (6) barrier strip locations on the rear swing out panel of the controller. The barrier strip terminals accept a number 6 spade-lug connector.



Controller Logic Definitions

1. Barrier Strip C

PTT Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

Fan Control Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

Repeater PA Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

2. Barrier Strip D

UIF Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

Off: Logic High

On: Logic Low

Pulse: Off - On - Off (High - Low - High)

Remote Strobe Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

Remote Serial Clock Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

Remote Serial Data Output

Active Logic Low - Open Collector with 4.7K pullup, 500 ma

3. Barrier Strip E

COS Input

Active Logic Low - Open Collector with 4.7K pullup

CTCSS Decoder Input

Active Logic Low - Open Collector with 4.7K pullup

Alarm Sense Input

Active Logic Low - Open Collector with 4.7K pullup

External Fan Control Input

Active Logic Low - Open Collector with 4.7K pullup

External PTT Control Input

Active Logic Low - Open Collector with 4.7K pullup

3. Barrier Strip F

A/D Inputs

Analog Voltage - 0 to 5 volts DC

Minimum 751b Controller Configuration (With Options)

SLOT	DESIGNATOR	CARD TYPE	CARD USAGE
1	TD1	Tone Decoder	Rptr, L1, L2
2	TD2	Tone Decoder	L3, L4, L5
3	CPU	Microprocessor	Controller
4	DSP	Display & Clock	Diagnostics
5	UF1	User Interface	Logic I/O
6	UF2	User Interface	Logic I/O
7	TG1	Tone Generator	Rptr, L1, L2, L3
8	TG2	Tone Generator	L4, L5, 6 Mtr
9	<i>VC</i>	<i>Voice Controller</i>	<i>Voice Telemetry</i>
10	<i>ASC</i>	<i>ASCII Interface</i>	<i>Not Available</i>
11	<i>TEL</i>	<i>Telephone Interface</i>	<i>Telephone</i>
12	SQ1	Squelch	Rptr, L1, L2, L3
13	SQ2	Squelch	L4, L5, 6 Mtr
14	AF	Audio Filter	CW ID Notch Filter
15	AM1	Audio Mixer	Repeater TX Audio
16	AM2	Audio Mixer*	Link 1 TX Audio
17	AM3	Audio Mixer*	Link 2 TX Audio
18	AM4	Audio Mixer*	Link 3 TX Audio
19	AM5	Audio Mixer*	Link 4 TX Audio
20	AM6	Audio Mixer*	Link 5 TX Audio
21	AM7	Audio Mixer**	6 Meter TX Audio

- Note: 1. Italics indicated optional cards
 2. * Audio Mixer card is not necessary if Link is not installed
 3. ** Audio Mixer card is not necessary if Remote Base is not installed