

RBC-733b 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. 2 Meter Rx Disc Audio Low
10. 2 Meter Rx Disc Audio High
11. 6 Meter Rx Disc Audio Low
12. 6 Meter Rx Disc Audio High
13. 10 Meter Rx Disc Audio Low
14. 10 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. 2 Meter PTT Output
6. 6 Meter PTT Output
7. 10 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. 2 Meter COS Logic Input
6. 6 Meter COS Logic Input
7. 10 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.
- 16.

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. 2 Meter Tx Audio Low
10. 2 Meter Tx Audio High
11. 6 Meter Tx Audio Low
12. 6 Meter Tx Audio High
13. 10 Meter Tx Audio Low
14. 10 Meter Tx Audio High
15. Auxiliary Audio Low
16. Auxiliary Audio High

Barrier Strip D

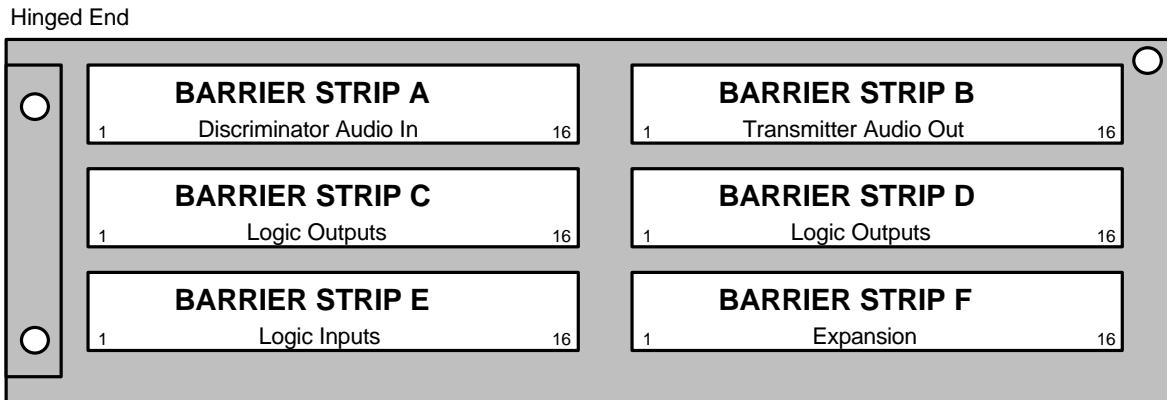
1. UIF 1 Logic Output
2. UIF 2 Logic Output
3. UIF 3 Logic Output
4. UIF 4 Logic Output
5. UIF 5 Logic Output
6. UIF 6 Logic Output
7. UIF 7 Logic Output
8. UIF 8 Logic Output
- 9.
- 10.
- 11.
12. 10 Meter Strobe Output
13. 6 Meter Strobe Output
14. 2 Meter Strobe Output
15. Remote Serial Clock Output
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 733b Controller Configuration
(With Options)

SLOT	DESIGNATOR	CARD TYPE	CARD USAGE
1	TD1	Tone Decoder	Rptr, L1, L2
2	TD2	Tone Decoder	L3
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		
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	2 Mtr, 6 Mtr, 10 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**	2 Meter TX Audio
20	AM6	Audio Mixer**	6 Meter TX Audio
21	AM7	Audio Mixer**	10 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