Various screen shots of TXB-B signals

4 December 2002

LIST OF FIGURES

This page intentionally left blank

Figure 1. Unterminated Burle Manchester data from an LTC-5136 keyboard.

Item	Setting/Use
Trace 4	Data line in across + and − wires, TXB-B unterminated. Signal is from an LTC-5136 keyboard. The Spectra is unpowered.
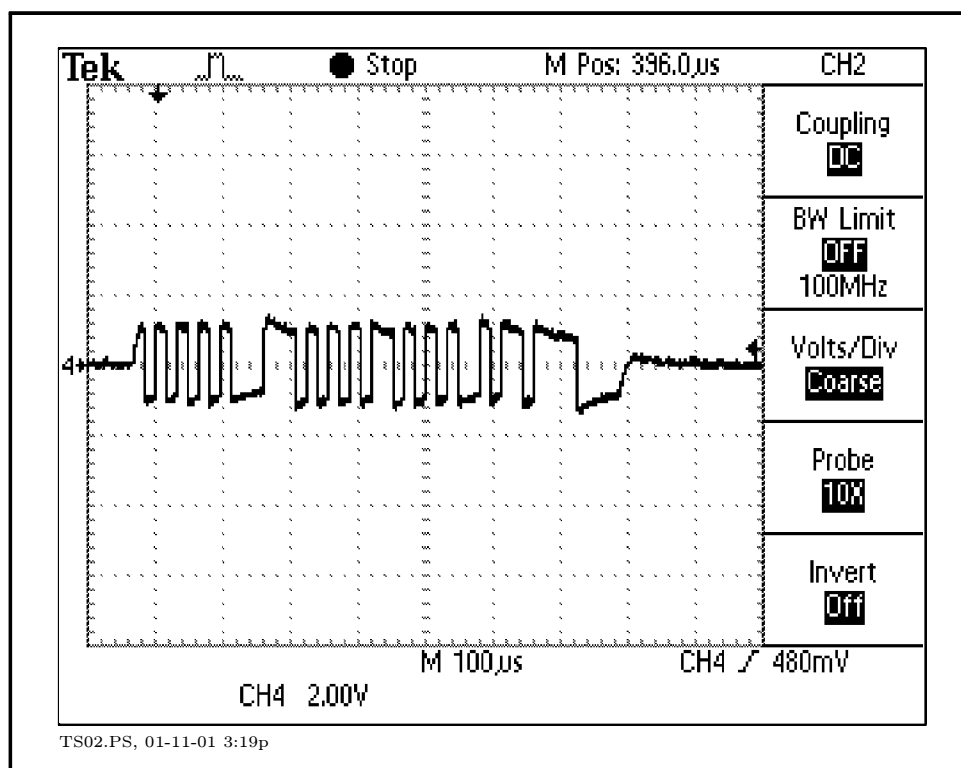
Figure 2. Terminated Burle Manchester data from an LTC-5136 keyboard.

Item	Setting/Use
Trace 4	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard. The Spectra is unpowered.
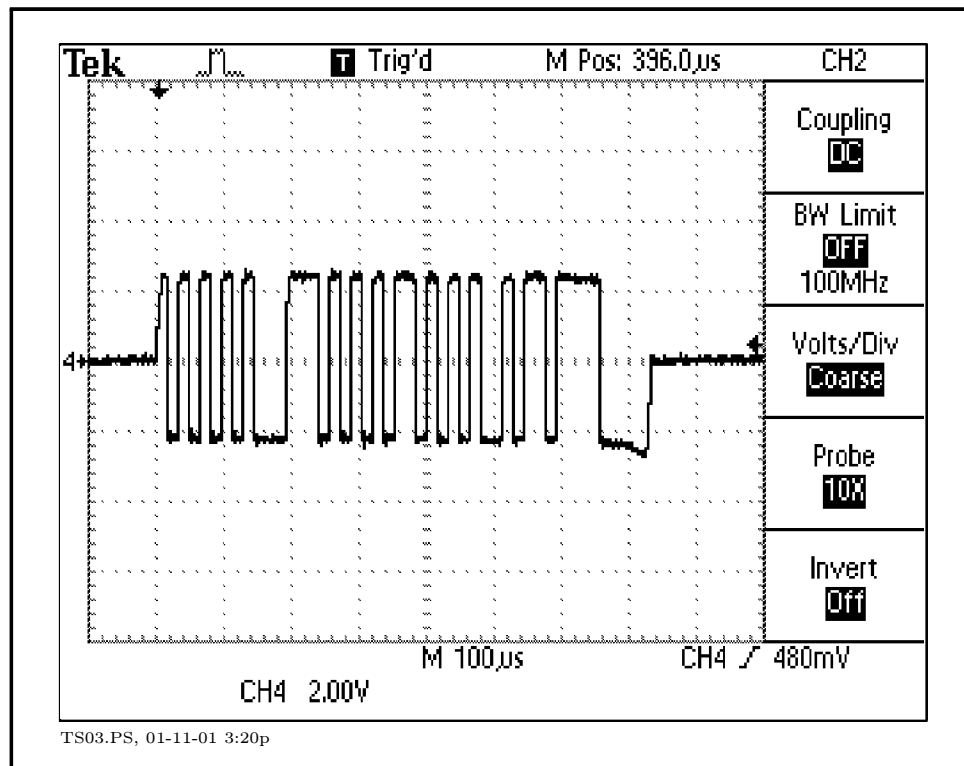
Figure 3: Spectra with no TXB-B installed and Burle Manchester data from an LTC-5136 keyboard.

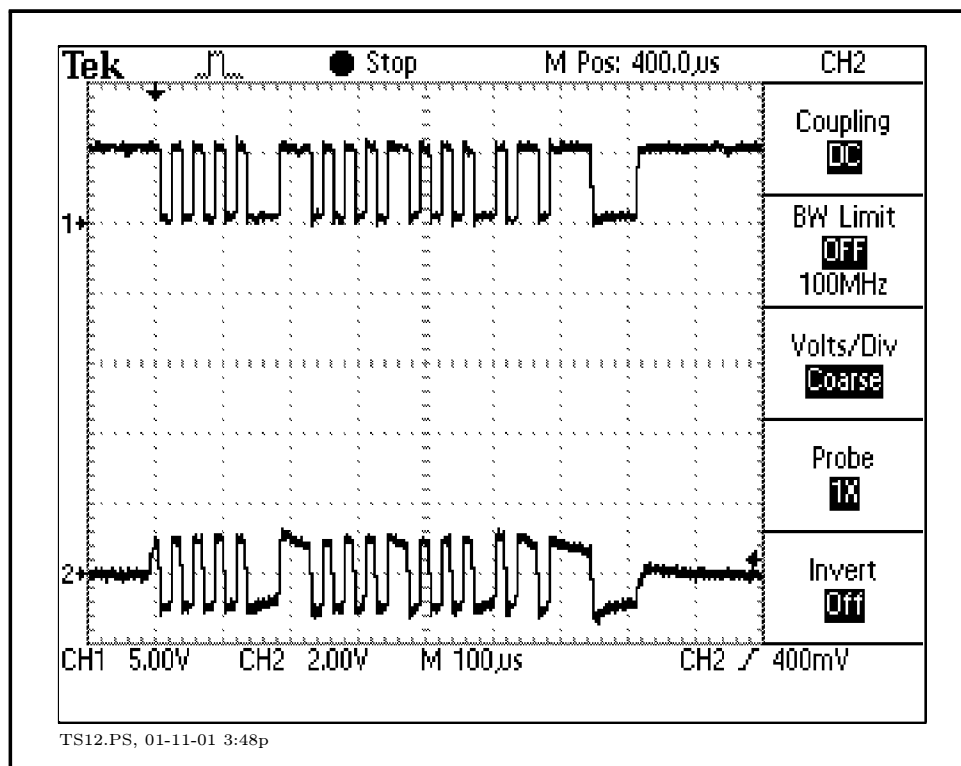| Item	Setting/Use
Trace 4	Data line in across + and − wires, with no board installed in the Spectra. Signal is from an LTC-5136 keyboard. The Spectra is unpowered.

Figure 4. Good TXB-B, output from J5-circle.

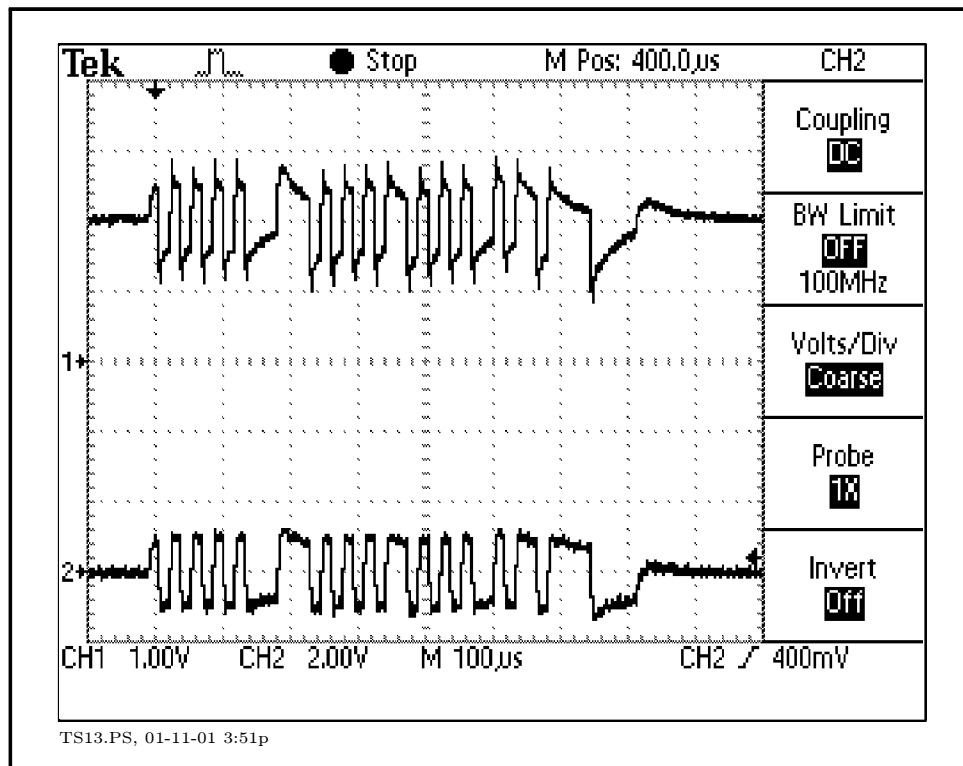| Item	Setting/Use
Trace 1	Signal from J5-circle from a "good" TXB-B. Signal is from an LTC-5136 keyboard. Note how nicely the signal got cleaned up.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.

Figure 5. Good TXB-B, input to U3-6.

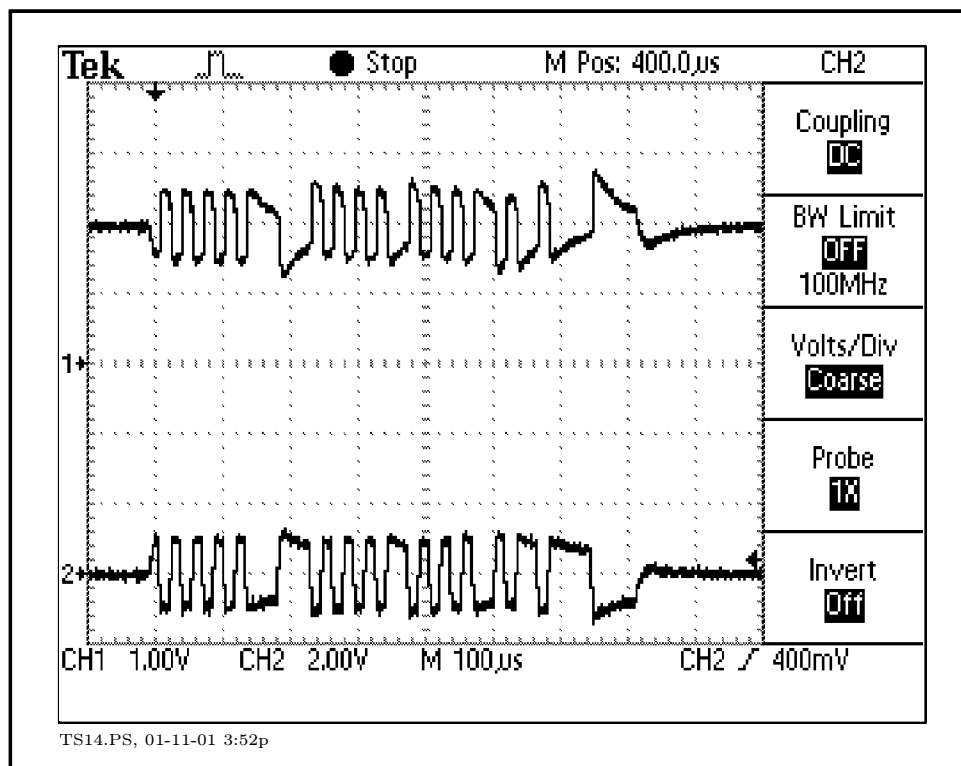| Item	Setting/Use
Trace 1	Signal into U3-6 from a "good" TXB-B. Signal is from an LTC-5136 keyboard. Note the nice clean signal.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.

Figure 6. Good TXB-B, input to U3-7.

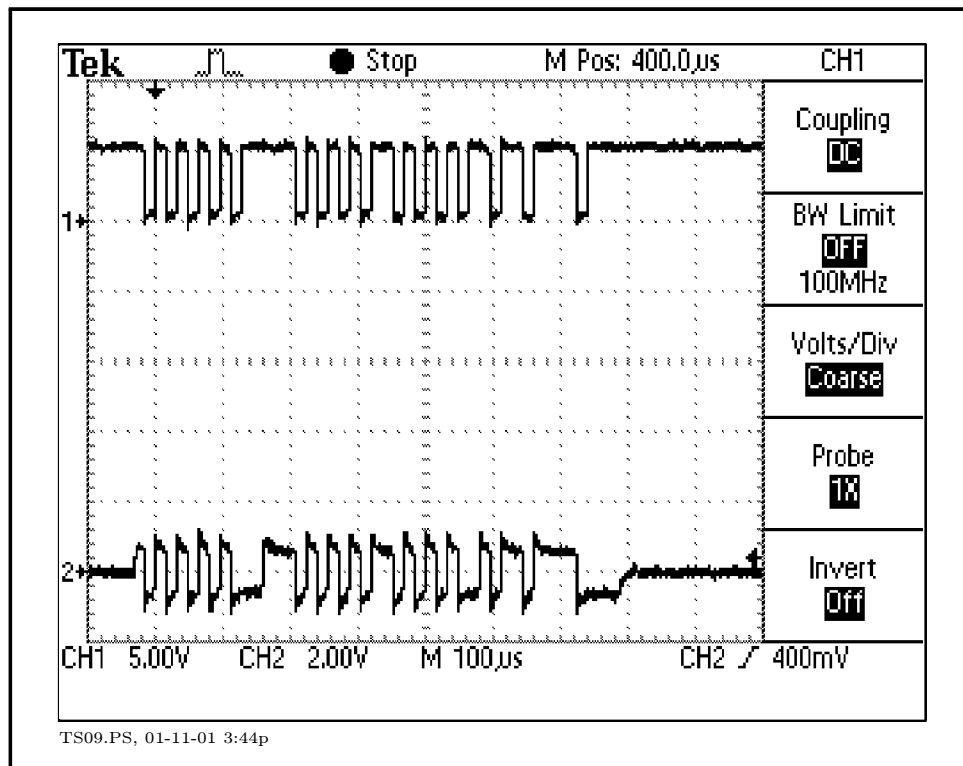| Item	Setting/Use
Trace 1	Signal into U3-7 from a "good" TXB-B. Signal is from an LTC-5136 keyboard. Note the nice clean inverted signal.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.

TS09.PS, 01-11-01 3:44p

Figure 7. Bad TXB-B's output at J5-circle.

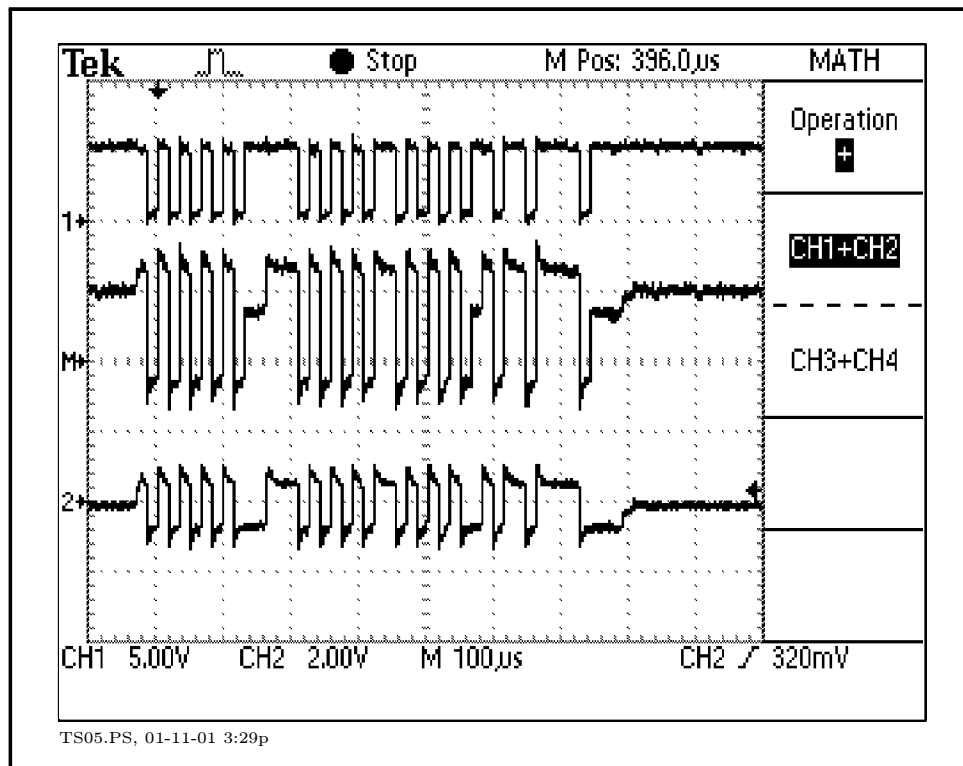| Item	Setting/Use
Trace 1	Signal from J5-circle from a "bad" TXB-B. Signal is from an LTC-5136 keyboard. Note what has happened to the sync pulse.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.

Figure 8. Bad TXB-B with Burle Manchester data cleaned up.

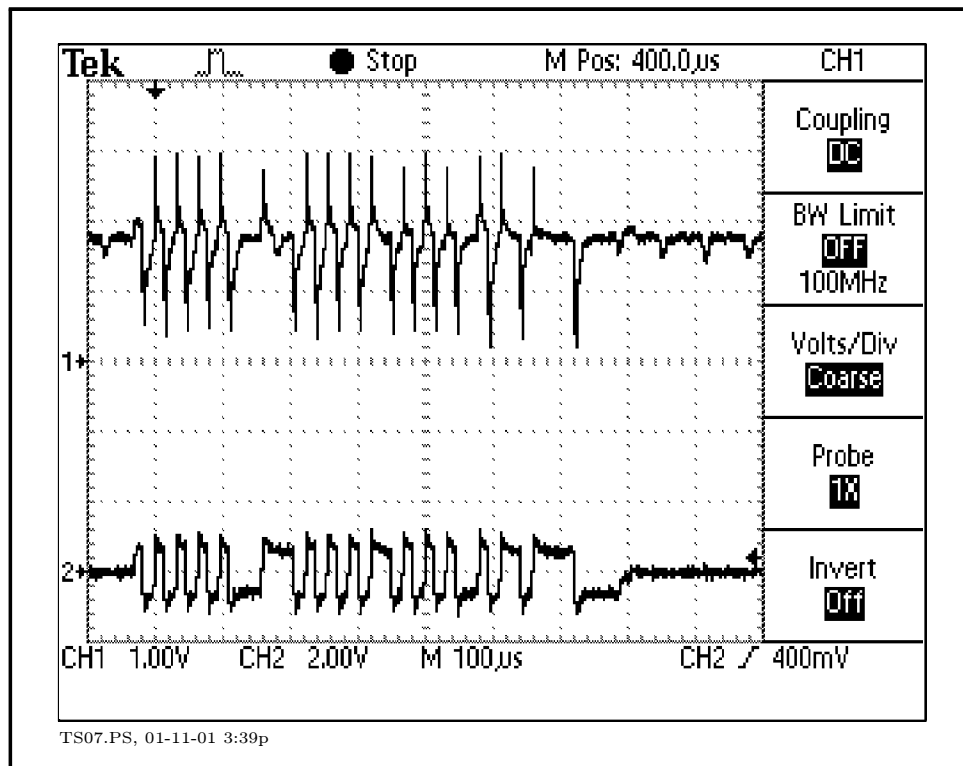| Item	Setting/Use
Trace 1	Signal from J5-circle from a "bad" TXB-B. Signal is from an LTC-5136 keyboard. Note what has happened to the sync pulse.
Trace M	The sum of traces 1 and 2.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.

Figure 9. Bad TXB-B, input to U3-6.

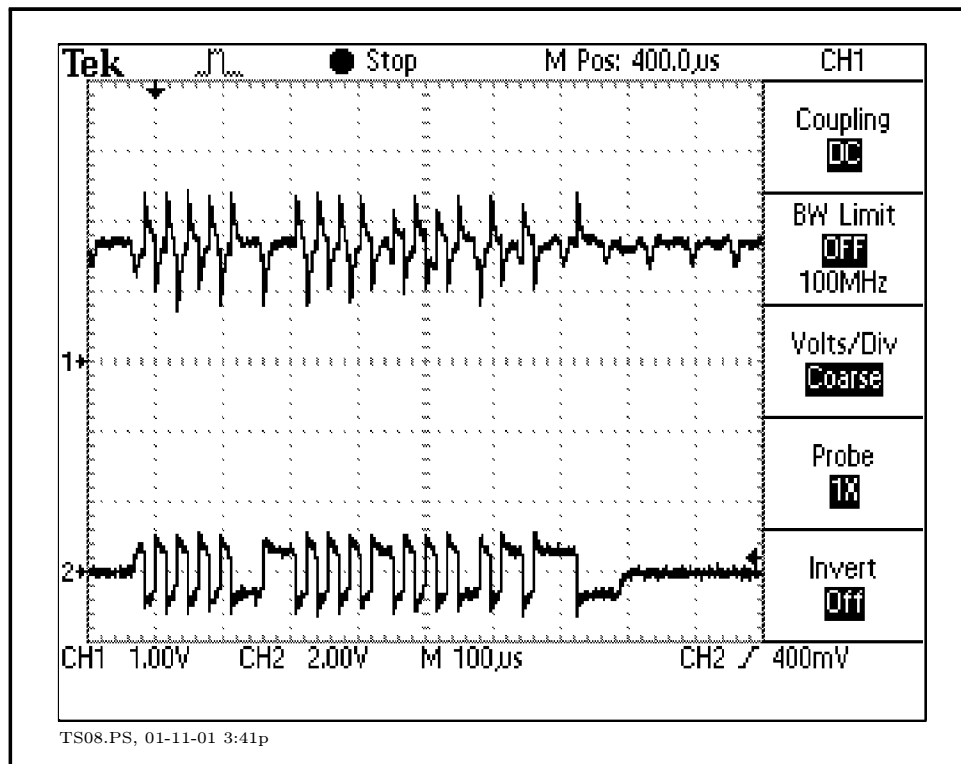| Item	Setting/Use
Trace 1	Signal going into U3 on pin 6. Note how messed up it is.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.

Figure 10. Bad TXB-B, input to U3-7.

Item	Setting/Use
Trace 1	Signal going into U3 on pin 7. Note how messed up it is and that it is inverted compared to the signal on pin 6.
Trace 2	Data line in across + and − wires, TXB-B terminated. Signal is from an LTC-5136 keyboard.