

Classic Final Test Instructions

12/03/02 Rev A

PART I: SETUP

CABLE SETUP: (DUET cable harness is used for Classic Final Test, but XLR cables #1 & #2 are not used on the Classic 1x12" test)

- 1). Connect 1/4" mono cable **3-IN** from the test rack AUDIO IN #3 to the **EFFECTS SEND LEFT/MONO (ES-L)** of the CLASSIC.
- 2). Connect 1/4" mono cable **4-IN** from the test rack AUDIO IN #4 to the **EFFECTS SEND RIGHT (ES-R)** of the CLASSIC.
- 3). Connect the mono grey "tip" of 1/4" stereo cable **5-IN** to test rack AUDIO IN #5 and the mono red "ring" of 1/4" stereo cable **6-IN** to test rack AUDIO IN #6.
- 4). Connect the black connector of 1/4" stereo cable **ES** to the **EFFECTS SEND** of the CLASSIC.
- 5). Connect the black connector of 1/4" stereo cable **PHONES** to the **PHONES** of the CLASSIC.
- 6). Connect 1/4" mono cable **1-OUT** from the test rack AUDIO OUT #1 to the **GUITAR INPUT** of the CLASSIC.
- 7). Connect 1/4" mono cable **2-OUT** from the test rack AUDIO OUT #2 to the **EFFECTS RETURN LEFT/MONO (ER-L)** of the CLASSIC.
- 8). Connect 1/4" mono cable **3-OUT** from the test rack AUDIO OUT #3 to the **EFFECTS RETURN RIGHT (ER-R)** of the CLASSIC.
- 9). Connect the **MIDI IN** to the **MIDI OUT** jack on the CLASSIC.
- 10). Connect the modified RJ-45 loop back cable **PEDAL** to **PEDAL** jack on the CLASSIC. (see attached sheet for modified plug diagram).
- 11). Turn the **MASTER** volume fully clockwise to maximum setting of **10**.

TEST RACK SETUP:

- 1). Turn on the power to the 2 FURMAN power strips in the Test Rack.
- 2). Make sure that the National Instruments computer is powered on.
- 3). Turn on the power to the DELL computer and monitor.
- 4). After Windows has booted up, on the desktop click on the "CLASSIC Final Test" shortcut.

PART II: CLASSIC SELF TESTS

FRONT PANEL TEST

1. While holding down the **D** button, flip the **POWER** switch on to the CLASSIC. The jewel light on the power switch should light.
2. All the LED's should light on the Classic Front Panel, then they will go out and only the top left LED **A** should be on.
3. Press the top left button **A** next to begin the LED Test. All LED's should light at the same time and then light one individually. The circle of LED's should first light GREEN then RED the second time.
4. When the LED test is finished press button **B** LED **B** should light. Press the button **B** a second time to begin the Button, Encoder & Pots test.
5. Press the 7 buttons, the 7 LED's should light.
6. Turn the encoder on the left side of the board, the circle of LED's should light.
7. Turn the 9 pots, the top 4 LED's should light.

NOTE: Turning the **VOLUME** pot will not light the LED's.

SRAM / MIDI / FLOORBOARD TEST

1. While holding down the **A** button, flip the **POWER** switch on to the **CLASSIC**.
2. LED **A** should light if SRAM passes.
3. LED **B** should light if MIDI passes.
4. LED **C** should light if the floorboard test passes.
5. LED **D** will **NOT** light.

PART III: TEST RACK PROCEDURE

- 1) On the Dell computer click the “**START TEST**” button on the **CLASSIC** Final Test window.
- 2) The **YELLOW** button will flash while the test is in progress.
- 3) The **GREEN** button will light if the unit passes.
- 4) The **RED** button will light if the unit fails.
- 3) Turn off **POWER** to the **CLASSIC**.

PART IV: SPEAKER TEST

- 1) Plug in the 2 speaker wires that were disconnected in PART I Cable Setup section 14.
- 2) Plug 2 extension speaker cabinet into the two **SPEAKER ¼”** jacks on the **CLASSIC**.
- 3) Select **CAB SELECT: OFF** switch on the **CLASSIC**.
- 4) Plug the electric guitar into the **GUITAR** input to the **CLASSIC**.
- 5) While holding down the **A** button, flip the **POWER** switch on to the **CLASSIC**.
- 6) Strum on the guitar, a clean tone should come out both the two **CLASSIC** speakers and the extension cabinet.
- 7) Unplug all cables to the **CLASSIC** and turn off the power.
- 8) Move **CLASSIC** to sound test chamber.
- 9) While holding down the **A** button, flip the **POWER** switch on to the **CLASSIC**.
- 10) Plug headphones into the #1 output of the headphone amp (for the sound chamber microphone, on top of sound chamber).
- 11) Plug the cable from the function generator into the input jack of the amplifier.
- 12) Close sound chamber.
- 13) Turn on function generator, find the switch that controls the frequency range, sweep the frequency through a range from .04 KHz – 1.5 KHz (40 Hz to 1500 Hz). This is done by turning the frequency range knob (on the function generator) in a clockwise direction. Listen for any rattling of the speaker or chassis.
- 14) Turn off the function generator and open the sound box.
- 15) Turn off **POWER** to **CLASSIC** and remove unit from sound chamber.

RJ-45 TEST CABLE WIRING DIAGRAM

11-08-02

A standard RJ-45 cable can be used to make a RJ-45 Test Cable used in self test modes on many LINE 6 products. 4 wires must be connected:

- WIRE/PIN1(TXN) to WIRE/PIN2 (RXN)
- WIRE/PIN6 (RXP) to WIRE/PIN8 (TXP)

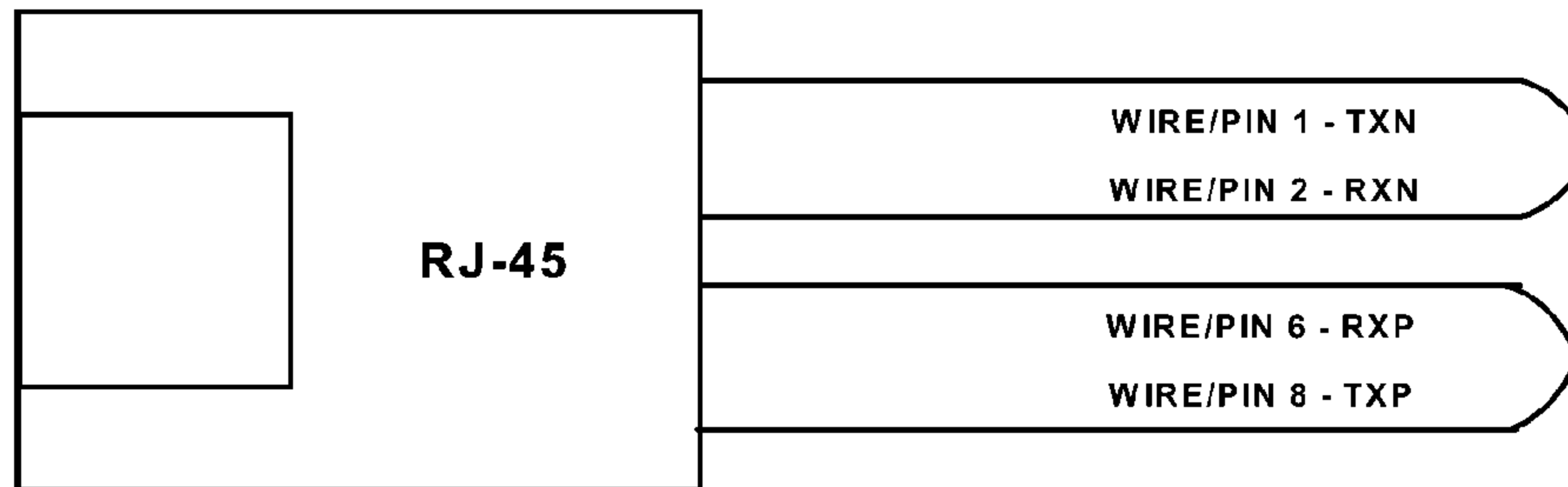


Figure 1

The pin out on the bottom of an RJ-45 PCB mount connector is label as indicated in Figure 2:

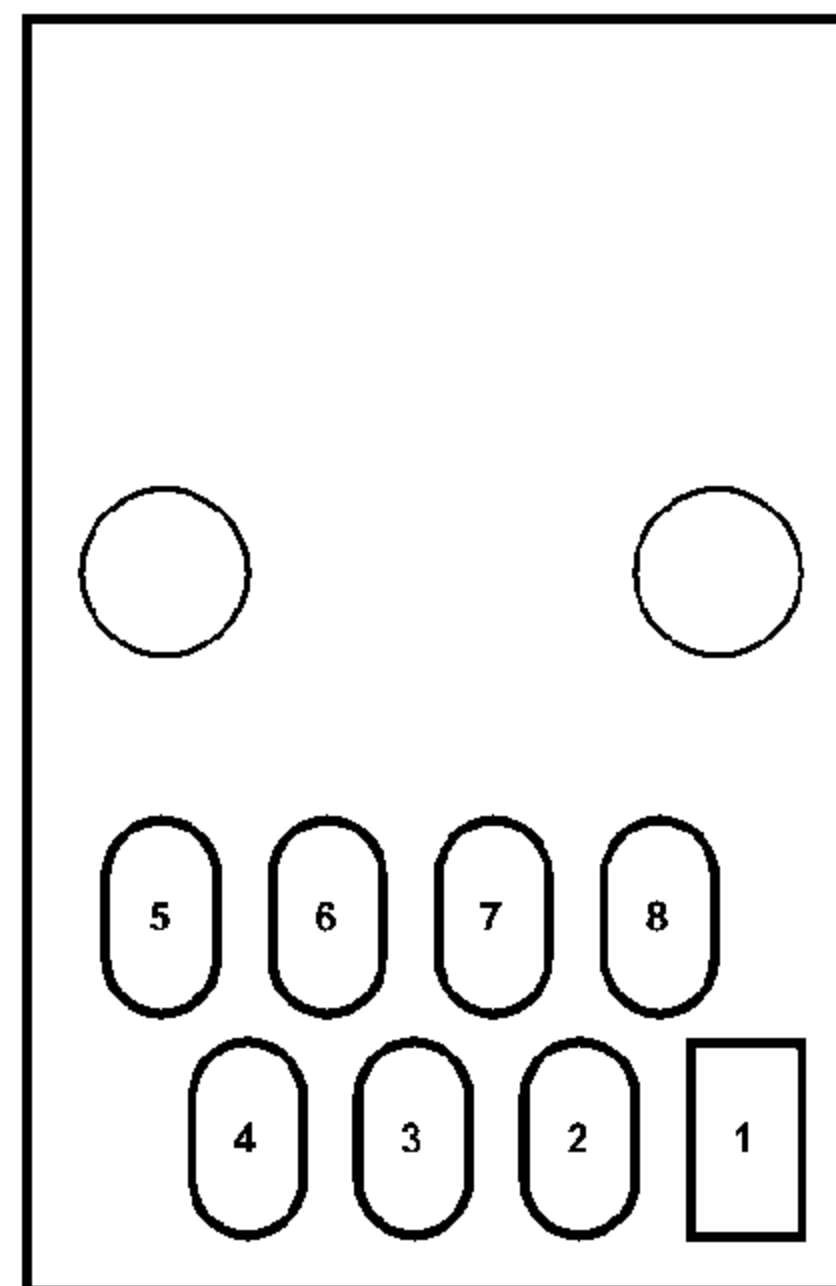


Figure 2 – Bottom view pinout on RJ-45 PCB connector



Instructions for updating Flextone III Flash code.

FLASH

1. Connect the MIDI out of your computer to the MIDI in on your Flextone III.
2. Connect the MIDI in of your computer to the MIDI out on your Flextone III.
3. Power up the Flextone III in test mode by pressing and holding channel A while powering up.
4. Use a Sysex tool (like the one included for PC's) or a MIDI sequencer app to play the Sysex MIDI file into the amp. It should take 5 minutes. After the MIDI light on your interface has stopped for a while, cycle the power on your amp. All should be well. If not, try the MIDI again.
5. Check the version of the FLASH by powering up while holding channel C. Count the number of times the B, C and D buttons flash. B represents the major version, C represents the first decimal in a point release, D represents the second. So one B flash, one C flash and 2 D flashes will indicate release 1.12.



FT3 Data Transfer

Neither of these data transfers require more than one cable to perform (MIDI Out of Sending unit to MIDI In of receiving unit.)

to enter the mode for dumping User Channels and User Amp Setups (in advance of Flash update or for archival purposes):

Hold TAP TEMPO + MOD SELECT (below the LED ladder) + GATE buttons on Power-up.

The LEDs on the ladder will scan downward to indicate the Model select button which triggers the actual MIDI Transmission.

Start your MIDI recorder or System exclusive utility.

Once the indicated button is pressed, the uppermost Delay and Mod leds alternate flashing to indicate the dump is in progress. When done, the normal startup light show begins and the amp is put into normal operation.

In terms of the data that's transmitted, there is a pause between the Channels and Amp setups which allows either splitting the file into its 2 constituent parts or (if you can see when data is being received by activity LEDs on your interface, etc.) starting/stopping the reception in between because (for instance) you only need to back up Setups. In either case, the "end of dump" string <F0 00 01 0C 03 72 07> is the dividing line between the 2 banks being transmitted and must be included at the end of the file you're saving to insure that the data writes to Flash successfully when you send it back to the amp.

The amp-to-amp Flash image transmission start-up mode is the same [as the above procedure] with the exception that the keys held on startup are:

TAP TEMPO + MOD SELECT + COMP. This takes more than 4 minutes to transmit and will provide the same indication (on the sending unit) of completion.