

# FL-7000 Amplifier

## Antenna Output Selector Repair



*Photo of the Author's FL-7000 Linear Amplifier, before repair.*



*Photos by Carlos Ferreira.  
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### My FL-7000 Output Selector Repair.

In August 2006 while installing an antenna switch at my tower, I found out that the antenna selector ports on the back of my FL-7000 Linear Amplifier weren't working properly. So after contacting Bill Grassa, I got the amp manuals and the values which should be outputted from the selectors, which again confirmed my suspicious findings that there was something wrong.

After checking the readings, I opened the amp as the photos on the right show using the following procedure:

- 1 - Removed the side rails, top and bottom covers.
- 2 - Removed the end trim pieces and screws holding the front panel.
- 3 - Removed the top front panel screws on the sides to allow the front panel to "swing" open.
- 4 - While the front panel was resting 90 degrees from the chassis, I had now access to the processor board that is mounted on the front



panel.

5 - Removed the 3 pcs. (2SA733A) transistors found at Q004, Q005 and Q006 positions.

6 - Replaced Q004, Q005 and Q006 with 3 new (2SA733A) transistors.

7 - Attached the front panel into place by performing the above procedures on 1, 2, 3 and 4 but in reverse this time.

8 - Connected the amplifier to the control cable of the FAS-1-4R Remote antenna Switch and tested the antenna selector on the amplifier.

9 - The selector was now working and selecting the correct antennas inputs into the FAS-1-4R Switch.

10 - Closed down the remote switch and installed up on the mast and again made a new test, now the antenna selector was working properly and switching into the right antennas, either manually or in automatic mode from radio.

Again, I would like to credit this repair to Bill Grassa for his technical support via e-mail from St. Cloud, FL - USA.

## Technical Documents:

[FL-7000 Manual](#)

[FL-7000 Schematics](#)

[FL-7000 Schematics 1](#)

[FL-7000 Schematics 2](#)

[FT-1000 Series Band Data cable](#)

[FT-800 & 900 Series Band Data cable](#)

[Housings, Plug & Receptacle 9 circuit](#)

[Molex: Crimp Terminal Female for 24 -> 30 GA wire](#)

[8 Pin: Mini-DIN Plugs](#)

[Datasheet 2SA733](#)

[Datasheet SC2652](#)

[FAS-1-4R Wiring.](#)

