Krell KSA100 EUR 1989
Input Buffer

2SJ44 (NEC) = IFR44 (www.interfet.com)
NEC-jFETs 2SK163/2SJ44 Replacement:
http://www.semicon.toshiba.co.jp/openb2b/websearch/productDetails.jsp?partKey=2SJ103
http://www.semicon.toshiba.co.jp/openb2b/websearch/productDetails.jsp?partKey=2SK246
after warm up adjust to 0VDC at output

Krell KSA100 EUR 1989
Voltage Gain Stage
Zero DC Servo
from out 3 - 4, Voltage Gain Stage
from out 1 - 2, Voltage Gain Stage
to base, MJE15031, Power Follower Unit, Driver Stage
to base, MJE15030, Power Follower Unit, Driver Stage

adjust to 0.4A for each of all six pairs of MJ15024/MJ15025 (400 mV by all 1 Ohm Resistors, whole idle current: 2.4A)

from out 3 - 4, Voltage Gain Stage

VN + VP 0210N5: Supertex Inc.
http://www.datasheetcatalog.com/datasheets_pdf/V/N/0/2/VN0210N5.shtml
http://www.datasheetcatalog.com/datasheets_pdf/V/P/0/2/VP0210N5.shtml

Krell KSA100 EUR 1989
bal-unbal transformer
power voltage gain stage and Bias
Krell KSA100 EUR 1989
Power Follower Unit
Power Supply for Protect Unit and Relais Driver Stage

Main Transformer -97V
+97V

Power Supply for Power Follower Unit

SK70B: larger rectifier compare to orig. version

Power Supply for all units without Power Follower and Protect units

Krell KSA100 EUR 1989 Power Supplies

High Power Relais

Power Supply for Protect Unit and Relais Driver Stage
A solution for simple but effective inrush current limiter to switch on simultaneous three KSA-100 units without any current transients.

Krell KSA100 EUR 1989
Protect Unit II
Summing amp, low pass filter and Predriver Stage

http://nte01.nteinc.com/nte/NTEMasterxRef.nsf/f5c1eb36d4d2efff185256b3a006a3555/8ca4e2f79cb8fc8485256a55006d182d?OpenDocument

Power Follower Units
both channels

Krell KSA100 EUR 1989
Protect Unit I
DC and Overcurrent
sensor CH L + R