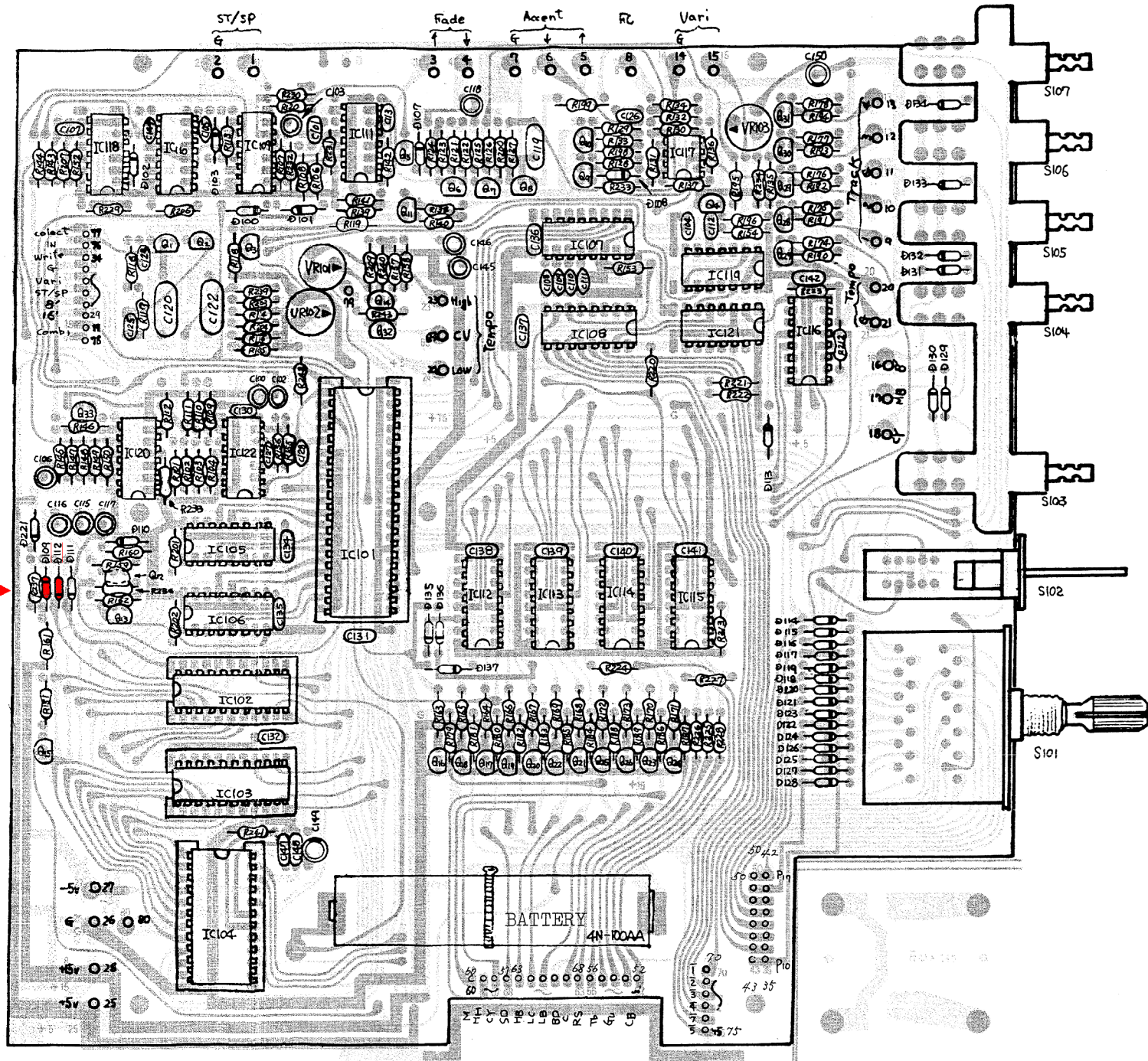
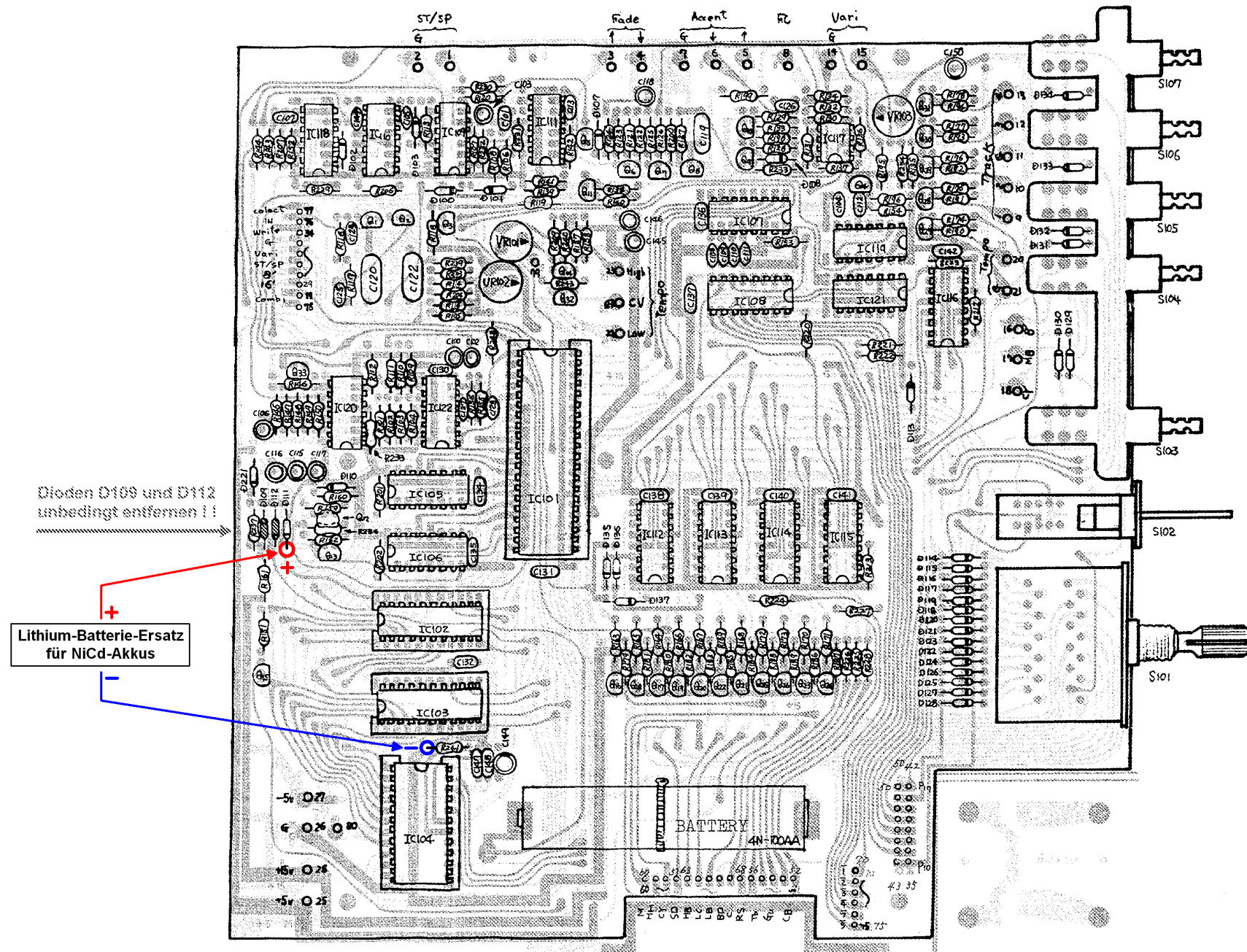


CR-78 GL-9B (142-009B) (Etch mask 052-438B) Serial No. 821051 and higher

Dioden D109 und D112
unbedingt entfernen !!



CR-78 GL-9B (142-009B) (Etch mask 052-438B) Serial No. 821051 and higher



RECHARGEABLE BATTERY CHANGE

CR-78

MANUAL CHANGE INFORMATION

4N-100AA (5.6V) to N-SB3 (3.6V)

Serial no.
up to 862899

Serial no.
872900 and higher

(no name is given on the
face of the battery)

(name is definitely printed on
the face)

ADJUSTMENT page 15

CORRECTION

1-2. T = 10ms ----- 200ms
2-1. 4 to 55 ----- 4 to 5

GL-9 with 4N-100AA

1. D109 is removed at the factory
to increase charging current.
However, there are some products
having D109 on the market.
REMOVE D109 on the first occasion.

(after D109 removed)

2. Never turn on the power
switch with 4N-100AA
DISCONNECTED.

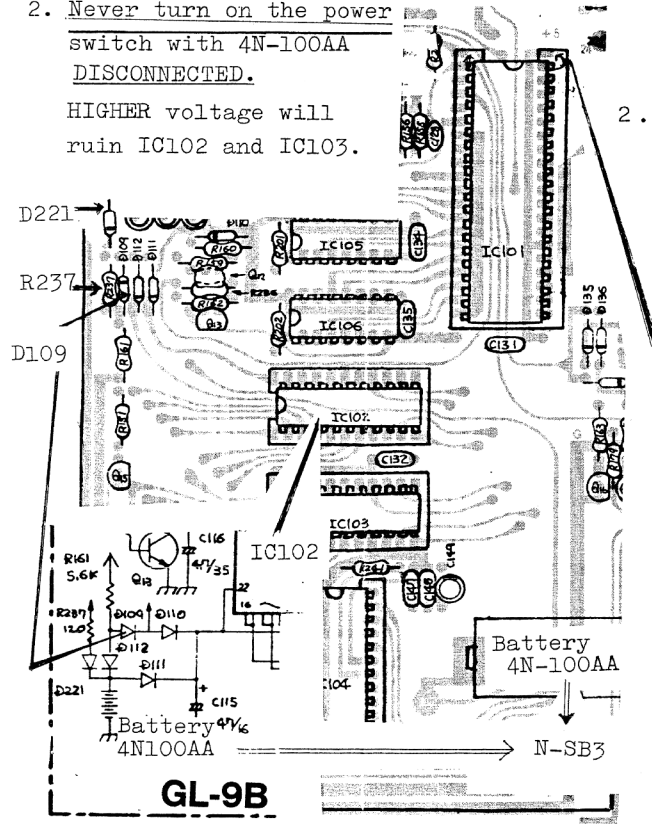
HIGHER voltage will
ruin IC102 and IC103.

GL-9 with N-SB3

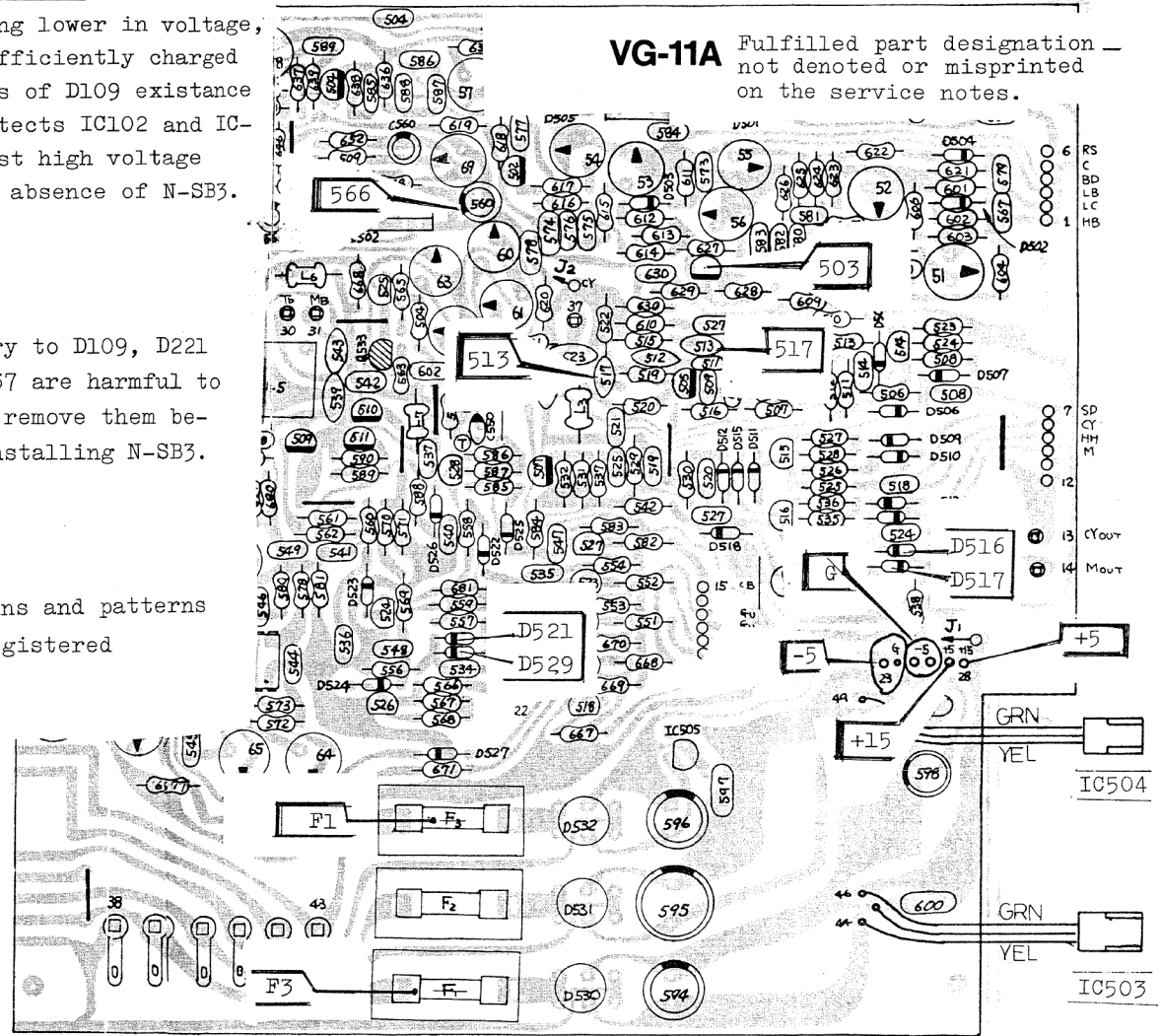
1. N-SB3 being lower in voltage,
can be sufficiently charged
regardless of D109 existence
which protects IC102 and IC-
103 against high voltage
during an absence of N-SB3.

2. Contrary to D109, D221
and R237 are harmful to
N-SB3, remove them be-
fore installing N-SB3.

IC pins and patterns
misregistered



VG-11A Fulfilled part designation —
not denoted or misprinted
on the service notes.





Roland CR-78