Outgoing Trunk/Repeater Circuit
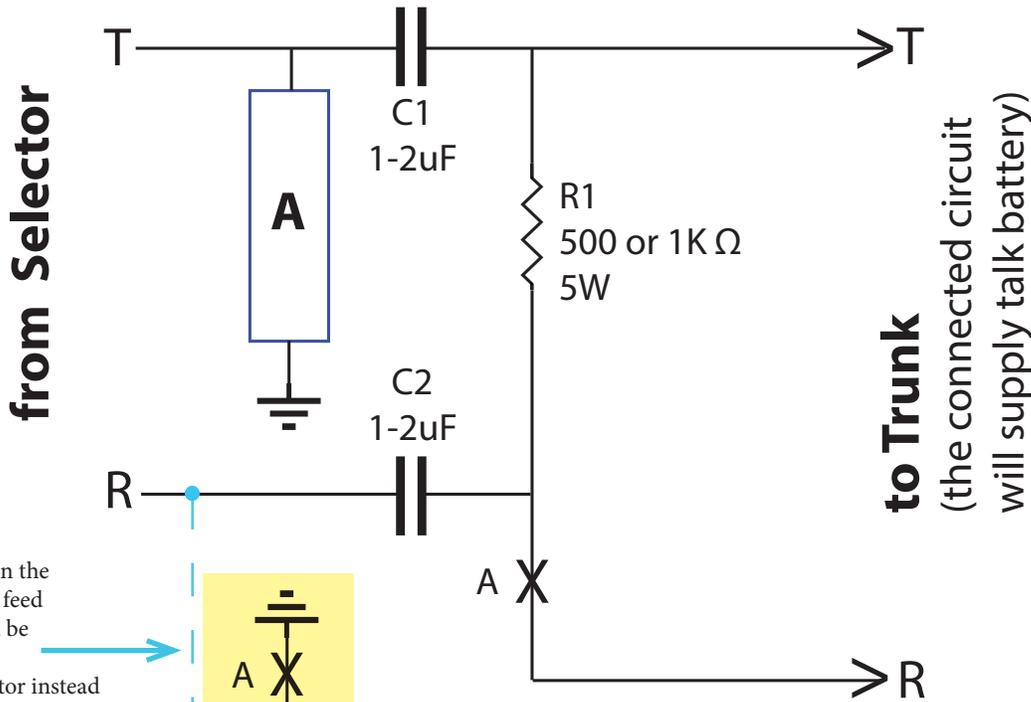
*from PBX **Selector** banks …*
for Dial "9" for ATA FXS port (PSTN or C*net), or
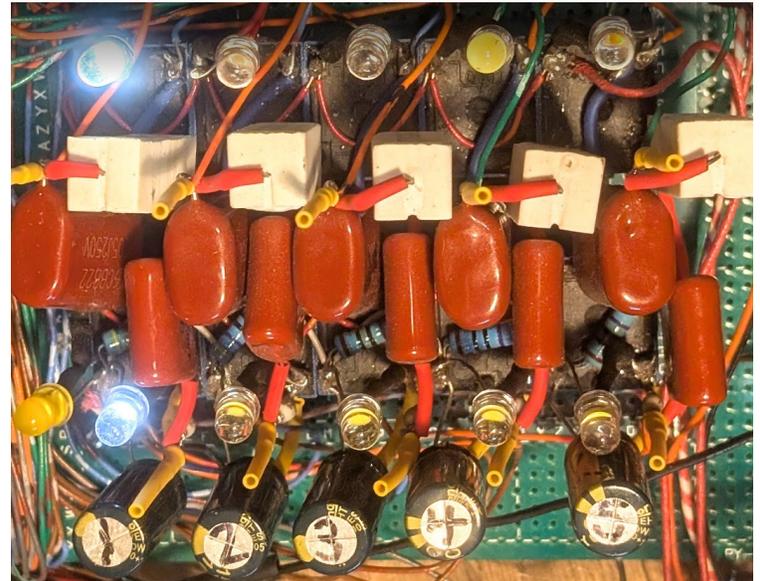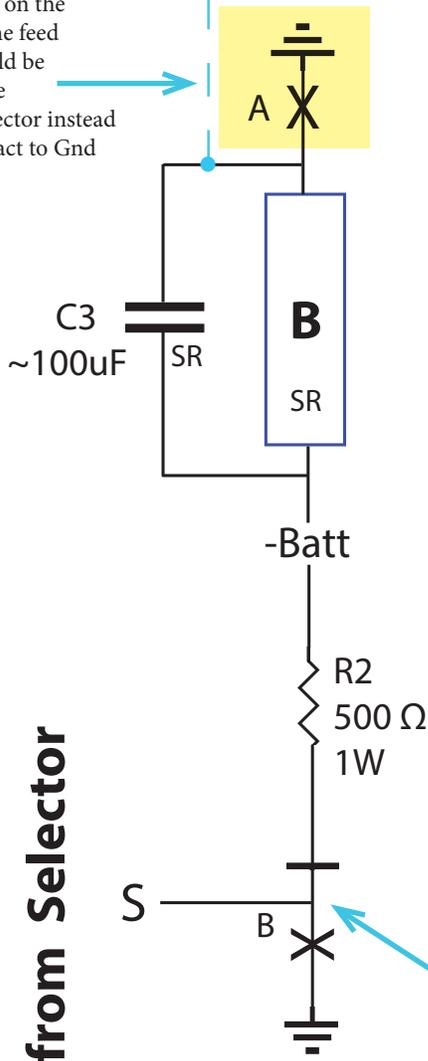*for 555 station TR for "O"perator, etc.*

OVERVIEW
A compact 2-relay circuit for step-by-step PBX switches.
Similar in function to W.E. SD-31779.
Can be implemented with a tiny footprint using
Songle cube relays, and tight component mounting.
Two LEDs display the status for each trunk interface
- the A (Line) relay shows dial pulsing. The B relay is SR (Slow Release)
via a 100uF capacitor. An optimization that worked on the author's
PBX was to directly power the B (in-use) relay
from the Selector bank output "R"

This design is not for the historic purist, but for the economy-
and spacesaver-minded hobbyist/collector.

from Selector

T

A

C1
1-2uF

R1
500 or 1K Ω
5W

to Trunk
(the connected circuit
will supply talk battery)

>T

C2
1-2uF

R

A ✕

>R

Note: Depending on the
circuit context, the feed
for the B coil could be
powered from the
R input from Selector instead
of via A(make) contact to Gnd

A ✕

C3
~100uF   SR

B
SR

-Batt

R2
500 Ω
1W

from Selector

S

B

During Rotary Hunting, apply **-Battery** to tell
Mr. Selector this is an available free trunk.
Upon seizure, backfeed Selector S with ground
to keep the switch train seized

*Five trunk circuits on a 3"x4" module: the left most is in use (top
LED is A/Line relay (shows pulsing), and bottom LED is B relay) -
wired to the First Selector's 8, 9, and 0(perator) levels*