



# SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

44

SUBJECT: TS-120S, TS-180S PHONE PATCH TERMINAL  
ADDITION

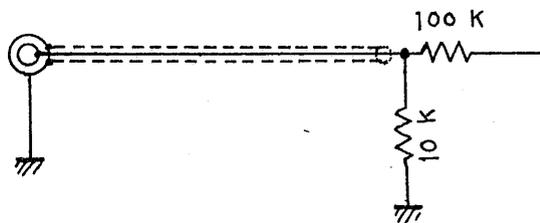
DATE  
9/6/79

Kenwood recommends the PC-1 Phone Patch for all of our radios. Most other phone patches will work satisfactorily without any modification to the radio, requiring only an external speaker connection, and that the Mic line be run through the Patch.

For those operators who desire a Patch input similar to the TS-520S or TS-820S, an input connection and terminal must be added at the Mic input preamp circuit.

## Fixed Divider

Use a 100K in series, with a 10K ohm to ground on the input side of the 100K resistor. Use shielded line, and connect as follows:



## TS-120S

On the IF Gen unit X49-1110-01 install the fixed divider at the junction of R43 10K, C42 100pf, & C43 1uF (input of Q18). Add an RCA jack, or use remote pins 7 and Gnd for input.

## TS-180S

On the IF unit X48-1240-00 install the fixed divider at the junction of R167 10K, C128 .001uF & C129 1uF (input of Q32). Add an RCA jack at the predrilled hole on the rear panel for input.

JEB/yn