

use this hook-up after modification

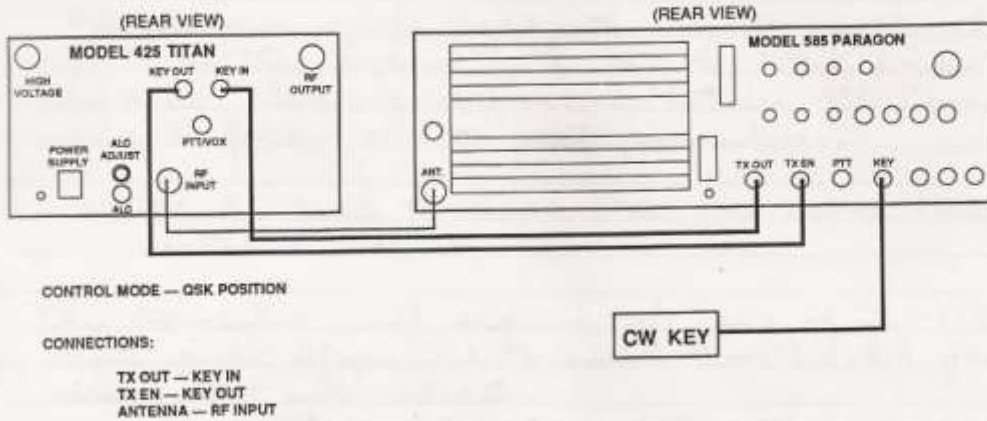


FIGURE 1-1. TEN-TEC TRANSCEIVERS (WITH TX OUT & TX EN)

AFSK - PTT one interface to be attached to

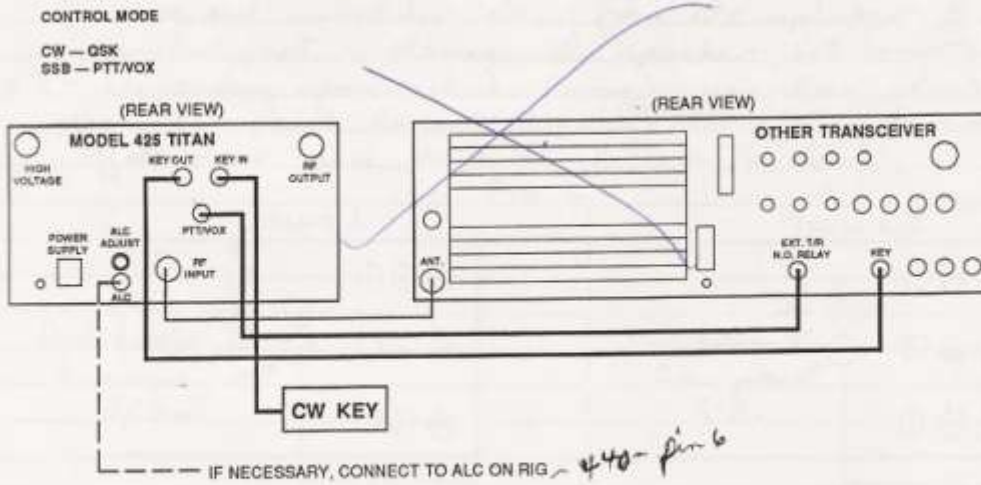


FIGURE 1-2. TITAN HOOKUP DIAGRAM FOR OTHER TRANSCEIVERS

PARTS

2- RCA CHASSIS JACKS 35028
 1- JUMPER 98062
 2-.01 uf CAPS 23260

1- 12" WHITE/BLUE WIRE

Below SN#

41A10019

560/561 T/R MOD FOR KEYING TITAN (425) AM
 OR HERCULES II (410) AM

The purpose of this modification is to enable the Corsair I or the Corsair II to key the Titan linear amplifier in any mode. There are differences between the Corsairs, so be sure to follow the correct procedure.

NOTE: BE SURE TO READ THRU THIS ENTIRE PROCEDURE BEFORE STARTING!

This procedure will require the use of two (2) rear panel jacks. If you wish to install two (2) extra jacks, please start with step 1.

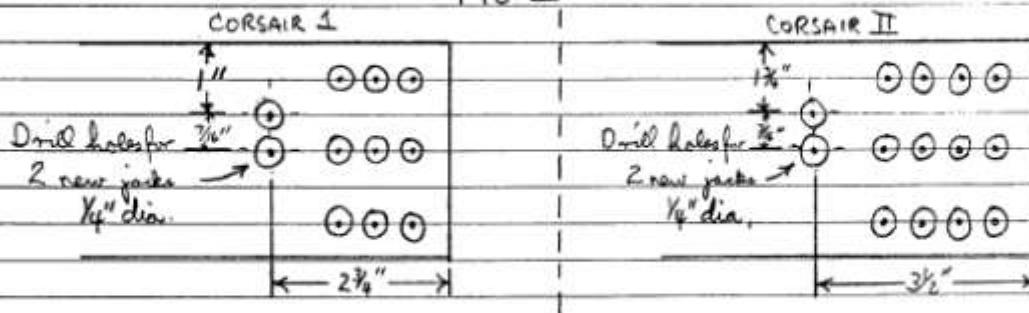
If you wish to use two of the rear panel jacks already installed, please do steps 1-2, then skip to step 7.

Step 1 - Remove top cover of radio and set to the side

Step 2 - Carefully remove bottom cover of radio, by removing the 4 side screws and one (1) bottom screw and sliding the cover towards the rear while pulling up. When you can see underneath the cover, look for the speaker wires and unsolder them from the speaker. Be careful not to damage the speaker. Set cover to the side

Step 3 - Depending upon which Corsair ^(FIG 1) you have, look at the rear panel layout drawings that show how to mark off the rear panel to drill 2 holes $\frac{1}{4}$ " dia.

FIG 1



Step 4 - Remove VAX Board (only in Corsair II)

Step 5 - Make sure wiring behind rear panel where holes are to be drilled is kept out of the way and drill (where marked)



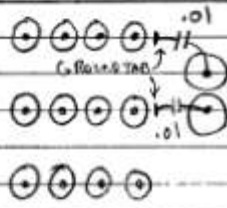
Fig 2

Step 6 - Install the two new RCA phone jacks in the holes.

Step 7 - Solder a .01 uf ceramic disc capacitor from the center tab of each new jack to a ground tab. See Fig. 2.

FIG 2

INSIDE OF CORSAIR

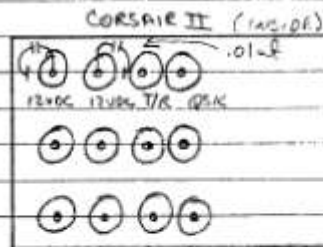
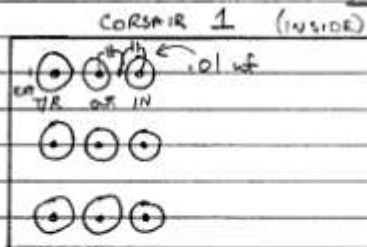


Step 7A - Use this step if you choose to use the existing jacks. We recommend using 2 side-by-side jacks, such as the Aux 12 volts jacks (or Spare and 12VDC) on the Corsair II. On a Corsair I, the only jacks that could easily be used would be the Audio In and Audio Out jacks.

Step 7B - After choosing which jacks to use, remove any cables or wires that are connected to them. Be sure to keep any wires that are loose well insulated and if two wires are on one jack, keep them tied together.

Step 7C - Solder a .01 uf ceramic disc capacitor from the center tab of each of the two jacks to be used to a ground tab. See Fig

FIG 3



Step 8 - Turn radio upside down on workbench with the front towards you. Locate the Control Board (20978) in the right rear corner.

Step 9 - Locate plug # 97. Remove the center wire (white) from the plug. This is the T/R line.

Step 10 - Route this wire up to the jack that is to be used as the T/R OUT jack (the right hand jack of the 2 side by side or the top jack of the newly installed jacks) thru the hole next to the rear panel and Accessory Plug.

Step 11 - Solder one end of the supplied white/blue wire to the center tap of the remaining jack that is to be used as the T/R IN jack. (The left hand jack of the 2 side-by-side or the bottom jack of the newly installed jacks).

Step 12 - Route the free end of the white/blue wire along the same path as the previous white wire and either solder or push-in this wire to the middle pin of plug #97, where the white wire was located.

Step 13 - Solder speaker cable to speaker and replace bottom cover.

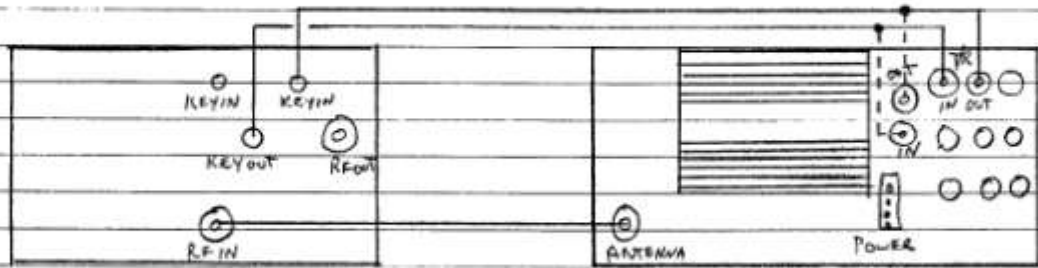
Step 14 - Install VOX Board if previously removed (Consult II on

Step 15 - Label the T/R jacks with the correct labels (IN & OUT

Step 16 - Install supplied jumper between the T/R OUT and T/R IN jacks.

Step 17 - Test the radio for normal Transmit operation in PTT, CW, VOX and Tune modes. If all is normal, replace the top cover and proceed with the Titan hookup.

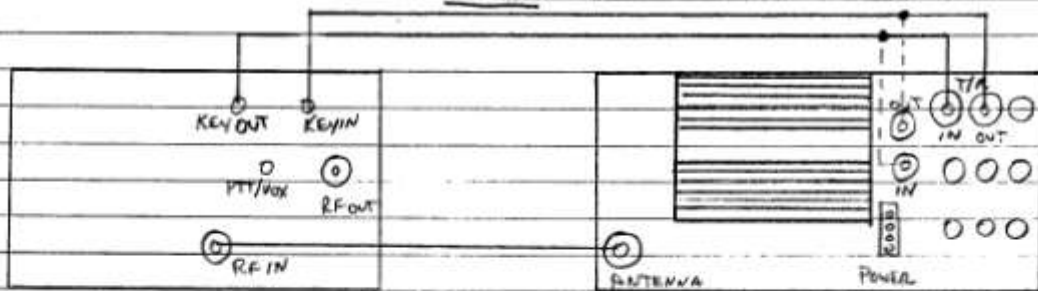
560 T/R HOOKUP FOR TITAN 425 PS4
FIG. 4



TITAN 425
 (BELOW 3/N 1000)

CORSAIR 1
 (DASHED LINES ARE USED ONLY WITH NEW JACKS)

KEY OUT → T/R IN
 KEY IN → T/R OUT
FIG. 5



TITAN 425
 (ABOVE 3/N 1000)

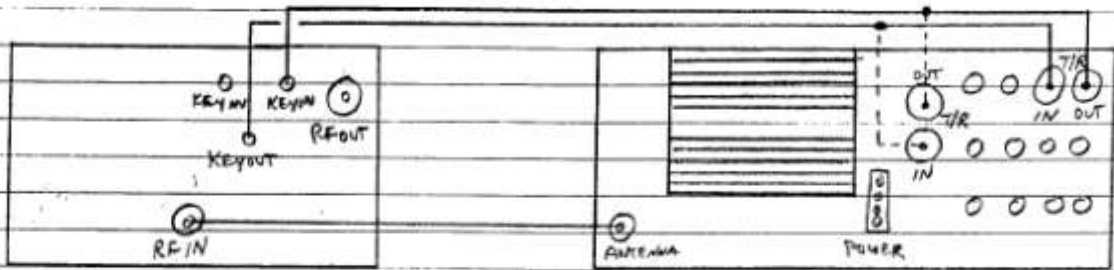
CORSAIR 1
 (DASHED LINES ARE USED ONLY WITH NEW JACKS)

KEY OUT → T/R IN
 KEY IN → T/R OUT

NOTE: THE CORSAIR I WILL HOOK UP TO THE HERCULES II (420) IN A SIMILAR MANNER. JUST USE THE KEY IN AND KEY OUT JACKS ON THE HERCULES II JUST LIKE THE TITAN.

561 T/R Hookup For TITAN 425

FIG. 6



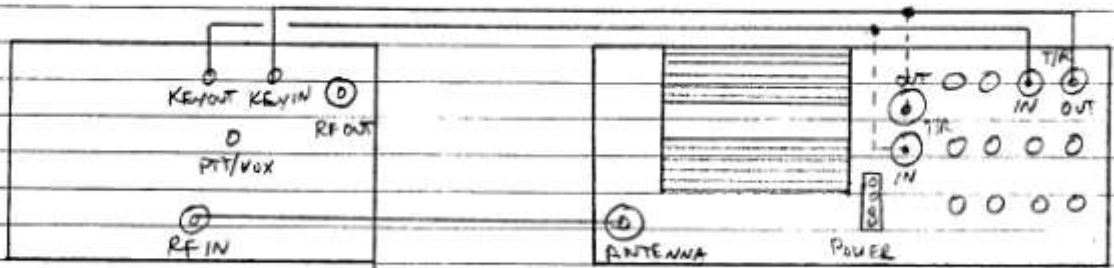
TITAN 425
(BELOW S/N 1000)

CORSAIR II

(DASHED LINES ARE USED ONLY WITH NEW JACKS)

KEY OUT → T/R IN
KEY IN → T/R OUT

FIG. 7



TITAN 425
(ABOVE S/N 1000)

CORSAIR II

(DASHED LINES ARE USED ONLY WITH NEW JACKS)

KEY OUT → T/R IN
KEY IN → T/R OUT

NOTE: THE CORSAIR II WILL HOOK UP TO THE HERCULES II (420) IN A SIMILAR MANNER. JUST USE THE KEY IN AND KEY OUT JACKS ON THE HERCULES II JUST LIKE THE TITAN.