



INSTALLATION MANUAL



DK-520

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The KENWOOD DK-520 Digital Adaptor Kit is designed for adapting the DG-5 digital counter to the TS-520. The DK-520 consists mainly of a power supply with connectors to supply the signals to the DG-5, and a buffer unit for the HET output signals.

PARTS SUPPLIED

| 1. | Power supply unit | 1 |
|----|-------------------------------------|---|
| 2. | Buffer unit | 1 |
| 3. | Power cable | 1 |
| 4. | ⁼ use, 2A | 1 |
| 5. | Converter cover | 1 |
| 6. | Mounting stud | 1 |
| 7. | lardware: | |
| | a. panhead screw 4x6 mm long | 1 |
| | b. self tapping screws, 3x6 mm long | 2 |
| | c. lock washer | 1 |
| | d. flat washer | 1 |

INSTALLATION

First, remove the top and bottom covers of the TS-520. When removing the top cover, remember to unplug the speaker lead before setting the top aside. Install the DK-520 as follows: (Ref. to fig. 1 thru. 6)

- Remove the wing nut and washer from the ground lug on the rear panel of the TS-520, and install the mounting stud on the ground lug.
- 2.Install the DK-520 power supply unit on the mounting stud as shown in fig. 1. Use the panhead screw, lock washer, and flat washer to hold the power supply unit in place.
- 3. Remove the slotted cover from the DC-DC converter.
- 4.Install the new slotted cover with the notch at the bottom.
- 5. Insert the wiring harness through the notch and feed it over the power transformer.
- 6. Locate the DC-DC converter terminal board (See fig. 2).
- 7.Solder one of the two white solid wires from the power supply unit to the terminal with the red lead on it.
- 8. Solder the other white solid wire to the terminal with the orange lead on it.
- 9.Solder the black solid wire to the chassis ground lug (See fig. 2)
- 19.Locate the coaxial lead with the red band.
- 11. Solder the center conductor of this cable to pin 1 of the remote VFO socket. (See fig. 2.)
- 12. Solder the shield of this cable to pin 2.

- 13.Locate the cable harness that runs parallel to the front of the RF unit.
- 14 Gently move this harness aside to reveal the two mounting holes for the buffer unit.
- 15. Install the buffer unit with the two self tapping screws.
- 16.Solder the yellow solid wire from the buffer unit to TP-3 on the RF unit.
- 17. Locate the yellow solid wire with the cap and install it over the case of FET Q8 (3sk22).
- 18. Solder the black solid wire from the buffer unit to the GND pin on the RF unit.
- 19. Solder the red solid wire from the buffer unit to the 14 pin of the FIX CH. AVR Unit.
- 20. Locate the coaxial lead with the blue band.
- 21. Solder the center conductor of this cable to the OUT terminal of the buffer unit.
- 22 Solder the shield of this cable to the GND terminal.
- 23. Feed the remaining coaxial cable, red solid wire, and white/black solid wire through the chassis as shown in Fig. 2.
- 24. Solder the red solid wire to pin 5 of the power connector as shown in Fig. 3.
- 25. Solder the white/black solid wire to the chassis ground lug.
- 26. Solder the center conductor of the coaxial cable to the OUT terminal of the CAR unit.
- 27. Solder the shield to the GND terminal.
- 28. Solder a jumper on the WWV/JJY switch as shown in fig. 4. Do not jumper the orange and purple wire.

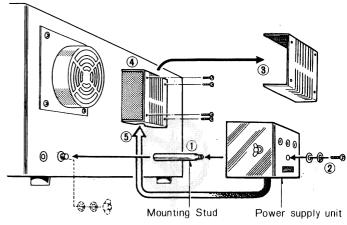
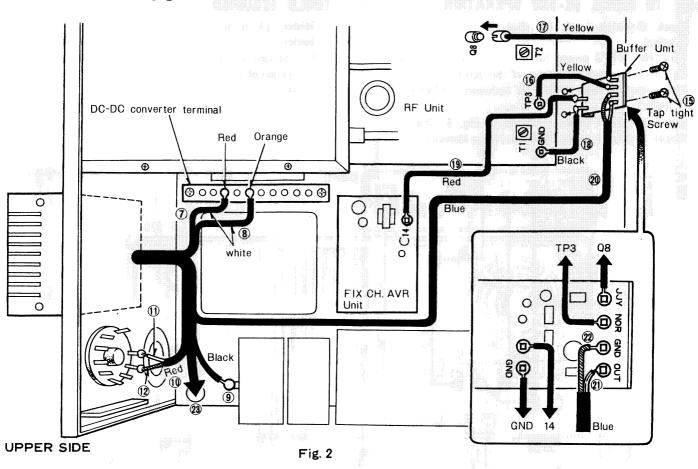
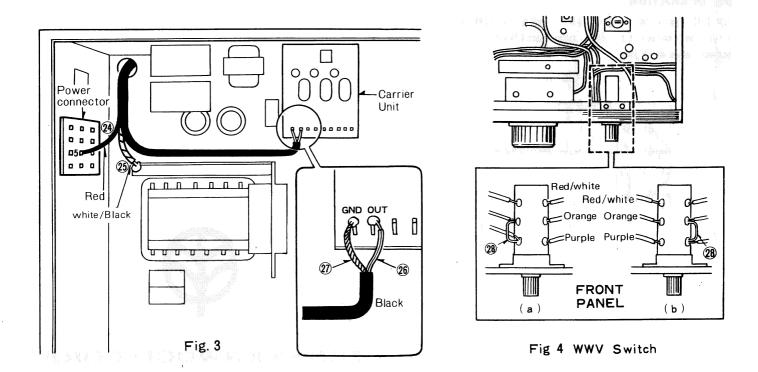


Fig. 1



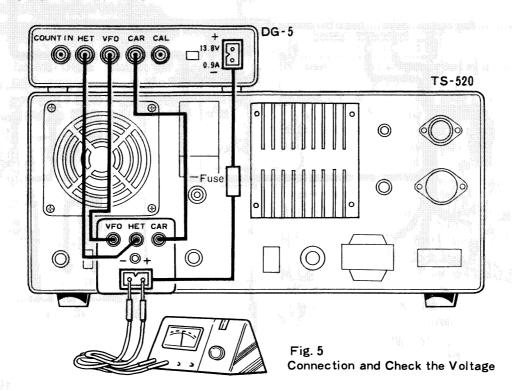


HOW TO CHECK DK-520 OPERATION

- 1. Check all wiring to be sure that all leads are correctly installed.
- Turn the TS-520 power on and measure the voltage at the two pin power connector of the power supply unit. The output voltage should be between 13.0VDC and 17.5VDC.
- Install the DG-5 cables as shown in Fig. 5. Check for proper frequency as per DG-5 Operating Manual.

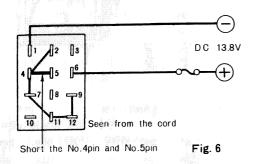
TOOLS REQUIRED

- 1. Soldering iron (not to exceed 45 watts).
- 2. Solder
- 3. Phillips screwdriver
- 4. Long nose pliers
- 5. VOM



DC OPERATION

For DC operation of the TS-520 (with DK-520) and DG-5, it will be necessary to short pins 4 and 5 of the TS-520 DC power cable as shown in fig. 6.





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