

GENERAL DESCRIPTION

The Swan Model DD-76 Digital Dial is designed to provide a digital display of your dial setting with 1 KHZ resolution.

The DD-76 Digital Dial's diode matrix programming lets you use it with any of the Swan Amateur transceivers in the following series: 260, 270, 300, 350, 500, 600 T and R, and 700.

You can plug the DD-76 directly into the Swan 700CX, 500CX, 500C or 500 transceivers, or you can use it with the other Swan transceivers listed above with slight modifications.

The DD-76 is housed in an enclosure that is styled to match Swan transceivers and is furnished with front panel controls for Amateur frequency band and sideband selection. The unit may be powered directly from 13.8 Volts DC positive or negative ground, or 117 Volts AC from the AC line cord which is furnished along with the interconnect cable.

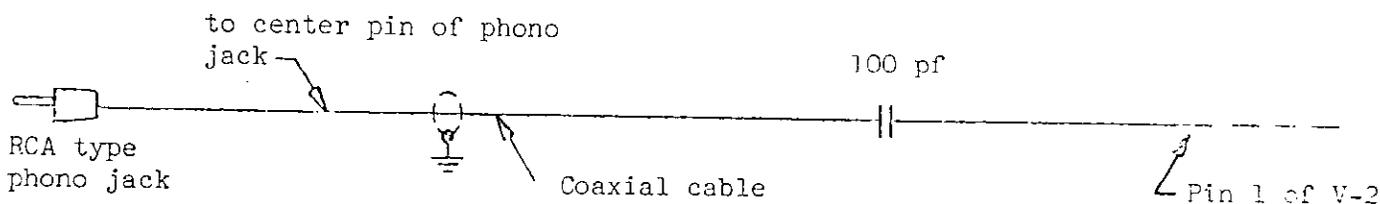
INSTALLATION INSTRUCTIONS (5500 KHz IF)

SWAN MODELS 350-C - If accessory socket is installed, remove jumper plug and plug DD-76 into the accessory socket.

NOTE: If accessory socket has not been installed, connect the DD-76 to pin 1 of V1 through a 100 pf cap as shown below.

SWAN MODELS 500-C, 500-CX, 700-CX - Remove the jumper plug and plug into accessory socket.

SWAN MODELS 260, 270, 270-B, 300-B - The VFO signal at the grid of the transmit mixer stage V-2 must be brought out to the rear panel through a 100 pf coupling capacitor in accordance with the following diagram:



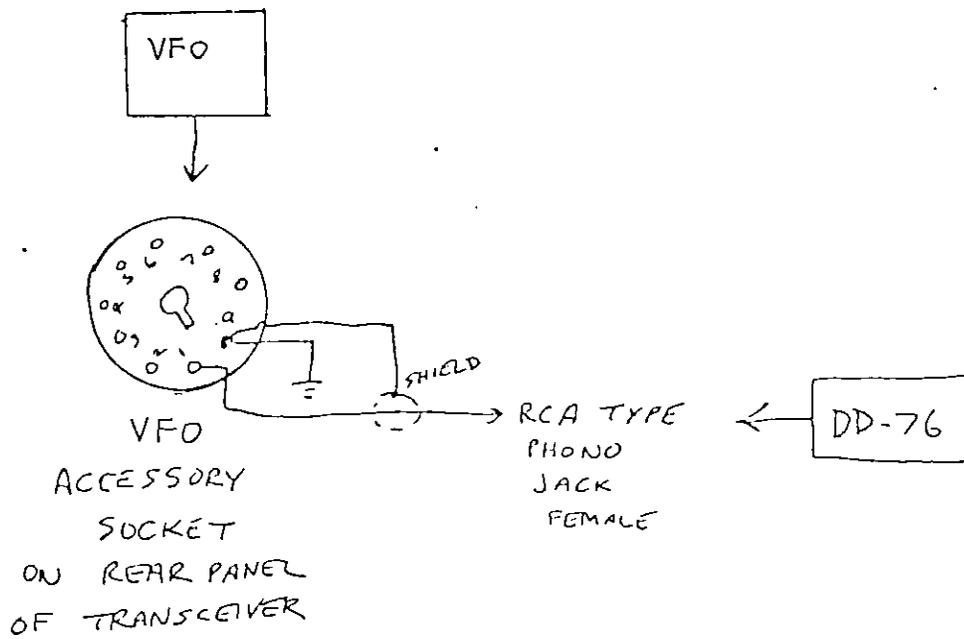
SWAN MODELS 600-R and 600-T - Plugs into the accessory socket (same as above for the Swan 500-C, 500-CX and 700-CX).

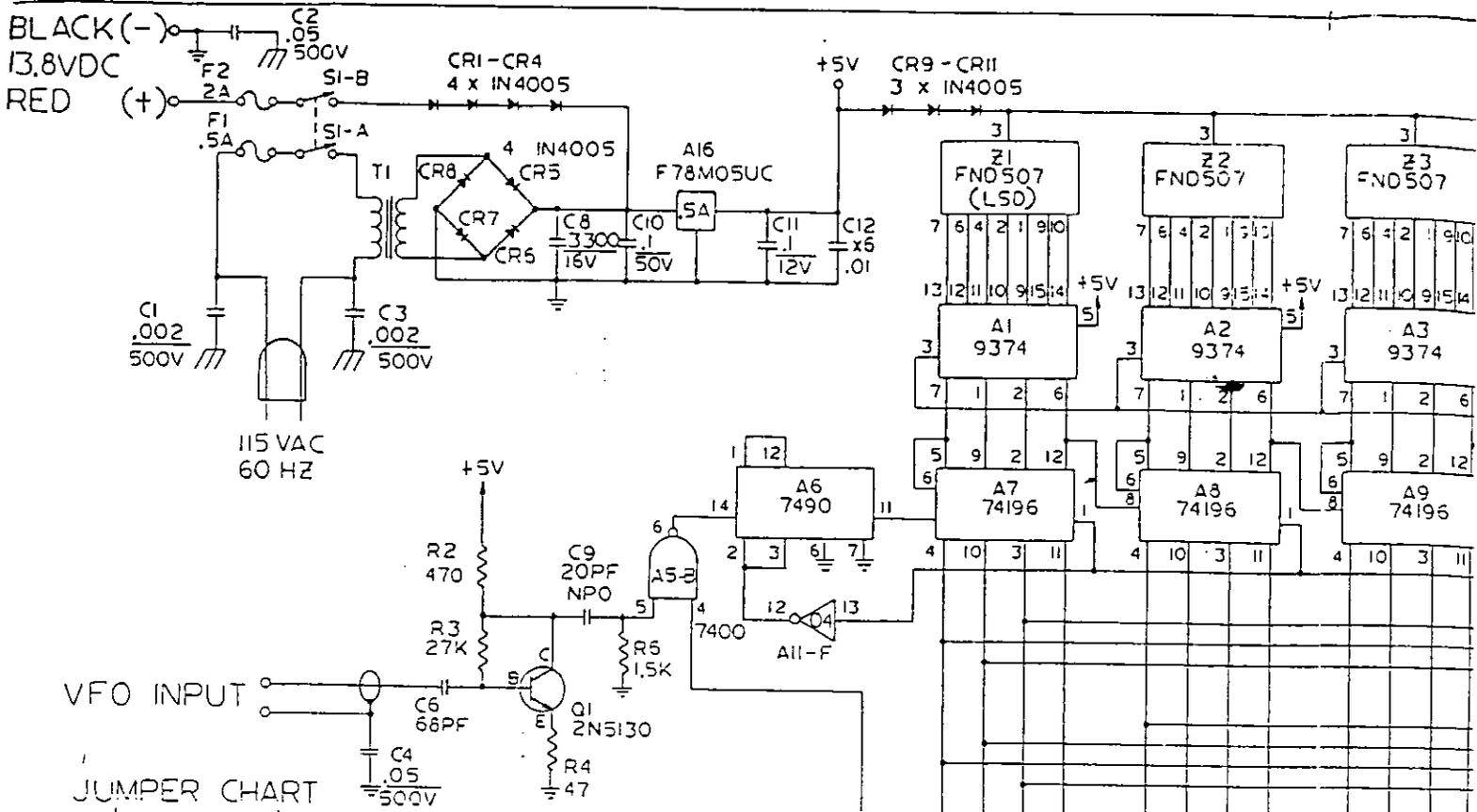
NOTE: Due to the 600-R VFO selector switch configuration, the DD-76 is NOT capable of displaying split frequency when the 600-R and 600-T are operated in this mode. If both transmit and receive frequency display are required, TWO DD-76's would be necessary.

510X CRYSTAL OSCILLATOR - Remove the connector from the DD-76 coaxial cable and connect the center lead directly to pin 1 of the 510X connector. The shield should be connected to pin 2 of the 510X connector. Depending on the position of the VFO selector switch you will read either the frequency of the internal VFO of the transceiver or the fixed crystal frequency from the 510X.

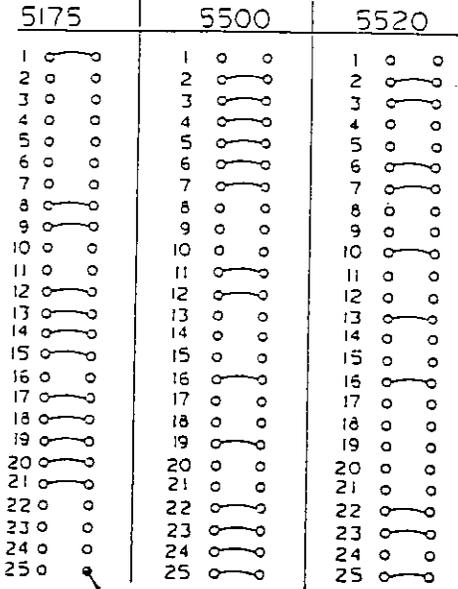
VFO 508 - Remove the connector on the DD-76 coaxial cable and connect the center wire directly into pin 1 of the VFO connector. Connect the shield to pin 9 of the VFO connector. In this configuration, depending on the position of the VFO selector switch, the DD-76 will read the frequency of the internal (transceiver VFO), the 50° VFO, or when operating split frequency the display will indicate the frequency of the VFO being used at that time.

SWAN MODELS SS-200, SS-200-A - A separate coaxial line must be brought out to the rear of the set and an RCA type phono jack may be used for connection to the DD-76. Two 100 pf disc caps must be used to couple the VFO signal. Connect one 100 pf disc cap to receive mixer coax line on VFO selector switch and one 100 pf disc cap to transmit mixer coax line and connect the other ends of the disc caps to the DD-76 coaxial line. This configuration will work for split operation using a remote VFO.





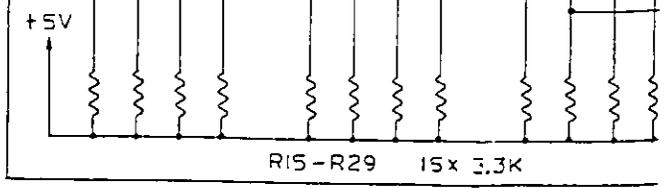
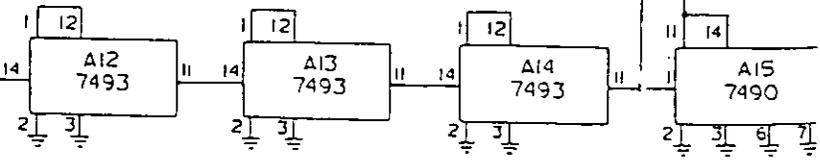
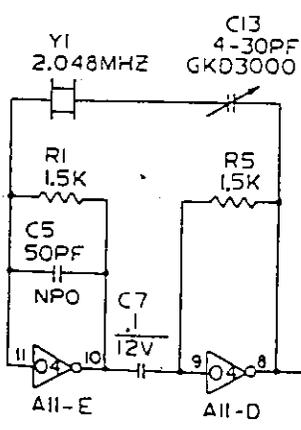
JUMPER CHART

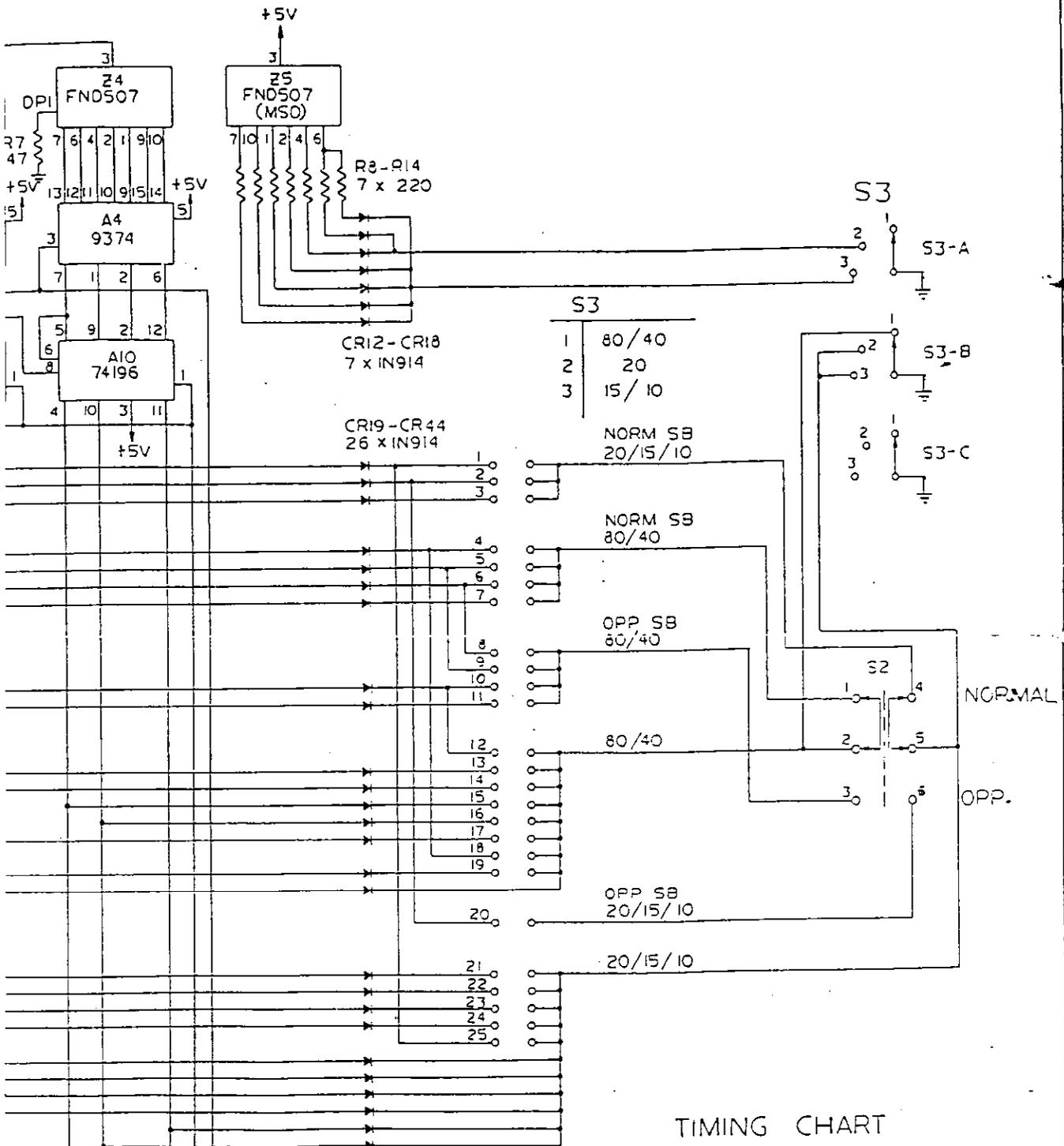


- 5. INDICATES CHASSIS GND.
 - 4. INDICATES CKT. GND.
 - 3. ALL RESISTORS ARE 1/4 WATT, 5 PERCENT.
 - 2. CAPACITANCE VALUES ARE IN MICROFARADS
 - 1. RESISTANCE VALUES ARE IN OHMS.
- NOTES: UNLESS OTHERWISE SPECIFIED.

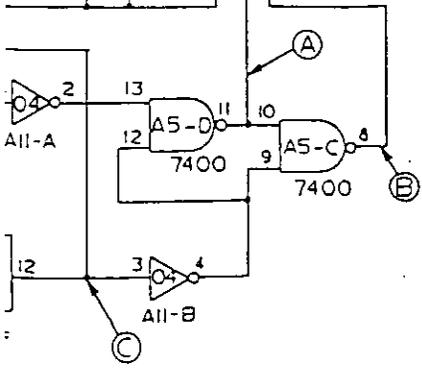
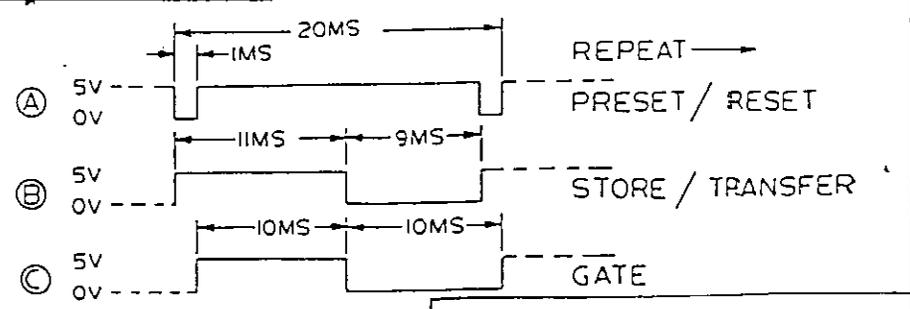
INSTALL Z WIRE

I.C.	VCC	GND
7400	14	7
7404	14	7
7490	5	10
7493	5	10
74196	14	7
9374	16	8





TIMING CHART



SWAN ELECTRONICS		
DATE: NONE	REVISED:	DESIGNED BY: PHIL
DATE: 4-5-77	REVISED:	DATE:
SCHEMATIC DD-76		
NO: 600-010	SHIPPED:	DATE: