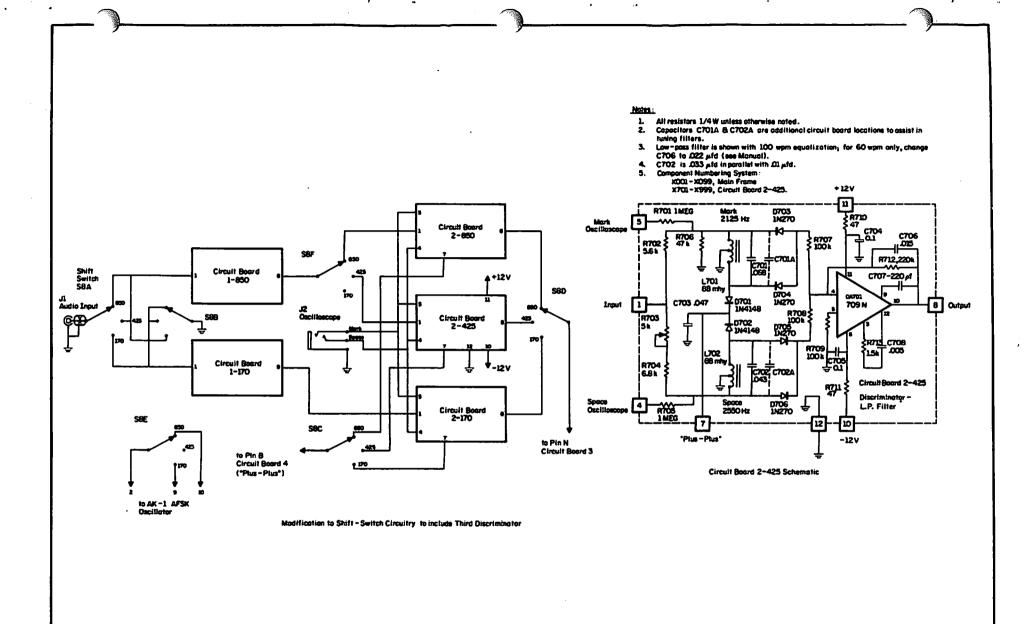
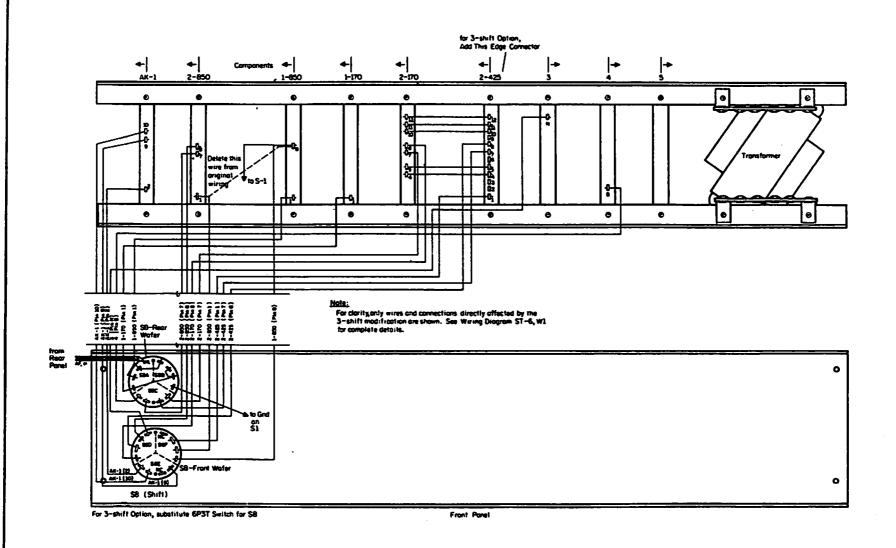
425 Hz DISCRIMINATOR

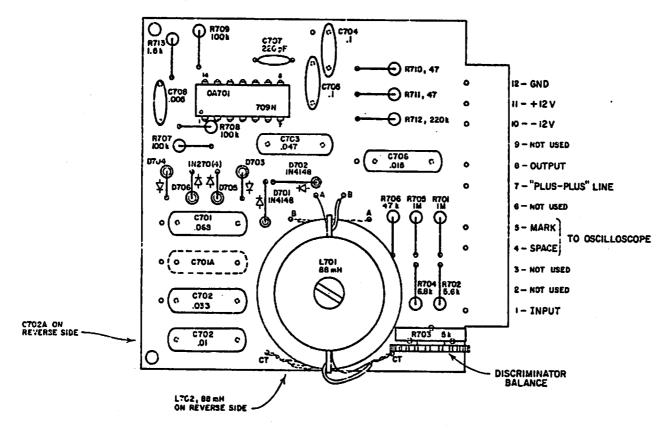








Wiring Changes Required to Add 3-shift Option, ST-6 Wiring Diagram



NOTE: 1. TUNING FREQUENCIES ARE:

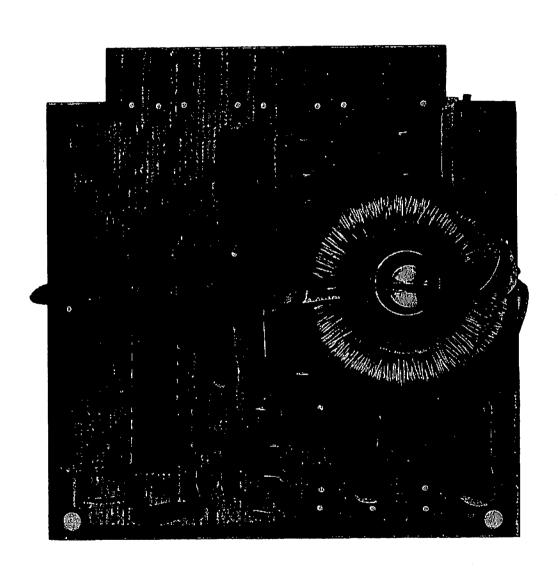
MARK (L7CI + C7OI) = 2125 Hz

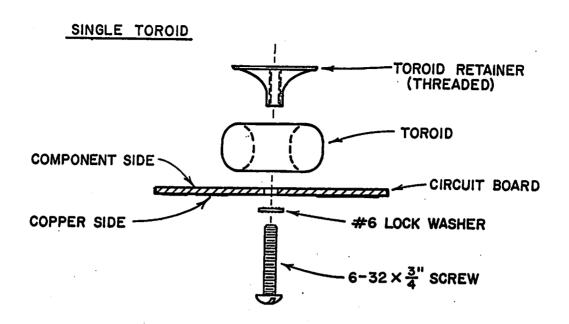
SPACE (L7O2 + C7O2) = 2550 Hz

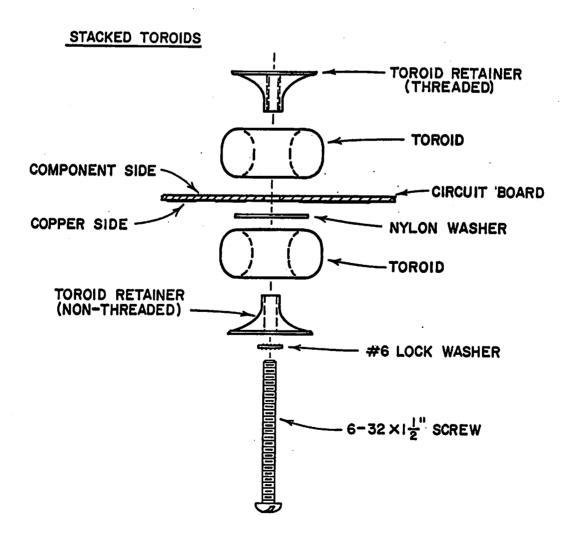
C7OIA AND C7O2A ARE ADDITIONAL
LOCATIONS FOR TUNING

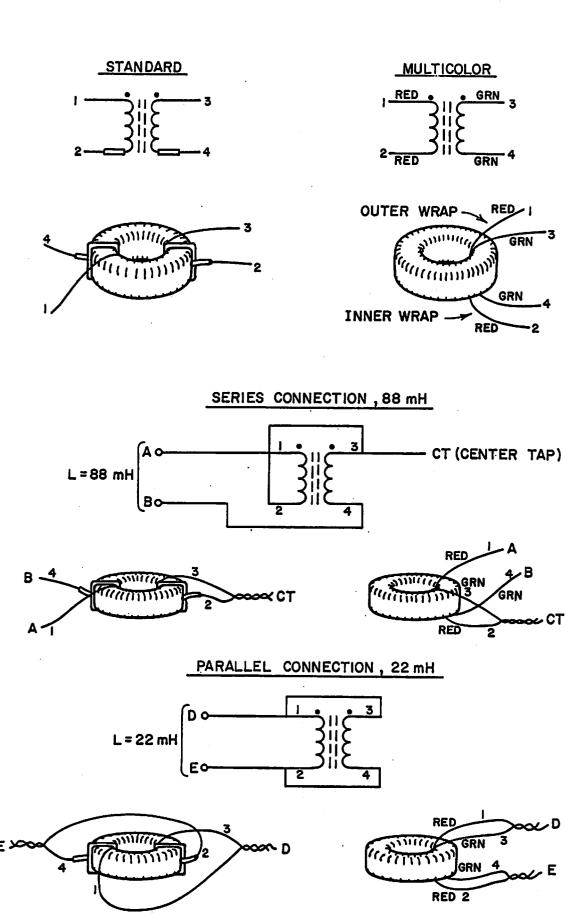
2. LOW-PASS FILTER EQUALIZATION: 60 W/M - C706 = 0.022 μ F 100 W/M - C706 = 0.015 μ F (RECOMMENDED)

ST-6, 425 Hz DISCRIMINATOR CIRCUIT BOARD LAYOUT JUL. 8, 1975 BIO48









HAL Communications Corp. Box 365 Urbana, IL 61801

ST-6 425 Hz Discriminator

Parts List

Resistors (watt)

2 - 47 ohm

1 - 1500

1 - 5600

1 - 6800

1 - 47K

3 - 100K

1 - 220K

2 - 1 meg.

1 - 5K trimpot

Capacitors

1 - 220 pf ceramic

1 - .005 mfd ceramic

1 - .015 mfd mylar (100 wpm)

1 - .022 mfd mylar (60 wpm)

1 - .047 mfd mylar

1 - .068 mfd mylar

2 - .1 mfd ceramic

1 - .033 mfd mylar

1 - .01 mfd mylar

Semiconductors

4 - 1N270 Ger. Diode (G)

2 - 1N4148 Silicon Diode (S)

1 - 709N Integrated Circuit

Miscellaneous

2 - 88 mhy toroids

1 - 14 pin IC socket 1 - 6-32 x 1½" screw

1 - Toroid retainer (threaded)

1 - Toroid retainer (not threaded)

1 - #6 Lockwasher

1 - Nylon insulating washer

1 - ST-6 No. 2 circuit board

1 - 12 pin edge connector

1 - 6P3T rotary switch

LIMITED WARRANTY

HAL Communications Corp of Urbana, Illinois, hereby warrants to the original purchaser only that any new equipment manufactured by HAL Communications Corp shall be free from defects in materials and workmanship for a period of one year from the date of original purchase. In the case of parts kits, this warranty applies only to materials and not to workmanship in kit assembly.

In the event of a defect in materials or workmanship during the warranty period, HAL Communications Corp will, at its own expense, repair the defective unit and replace any defective parts. Costs of shipping the unit to HAL Communications Corp shall be paid by the purchaser, as well as costs of removal and reinstallation of the unit. HAL Communications Corp will bear the shipping costs incurred in returning the unit to the purchaser.

To obtain service under this warranty, the original purchaser should do the following:

- 1. Notify, as soon as possible, the Customer Service Department at HAL Communications Corp, Urbana, Illinois, either in writing or by telephone, of the existence of a possible defect;
- 2. At the time of notification, identify the model or serial number, the approximate date of purchase, the place of purchase, and the possible defect;
- 3. Hold the unit until a written return authorization is received.
- 4. Return the unit, freight prepaid, upon the receipt of the written return authorization.

Correct installation, use, maintenance, and repair are essential for proper performance of this product. The purchaser should carefully read the technical manual.

This warranty does not apply to any defect which HAL Communications Corp determines is due to any of the following:

- Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts;
- Misuse, abuse, neglect, improper installation, or improper operation (including operation without a proper safety ground connection);
- Accidental or intentional damage.

All implied warranties, if any, are limited in duration to a period of one year from the date of original purchase. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

HAL Communications Corp disclaims any liability for incidental or consequential damages arising out of the use of, or inability to use, this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.