

SUPERSESSION NOTICE

This manual supersedes the following two documents:

1. Operation and Maintenance Manual for Command Signal Decoder KY-681/GGC, dated 1 July 1970 with the following publication numbers:

TEMO-506-010A TMI1-5895-742-14 NAVSHIPS 0967-878-9010 T031W4-2GGC-171

2. Operation and Maintenance Manual for Command Signal ecoder Y 1011/GGC, Volume II - Illustrated Parts Breakdown, ated October 1970 with the following publication numbers:

> TEMO-506-020A TMI1-5895-742-14, Change 1 NAVSHIPS 0967-878-9020 T031W4-2GGC-174

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CHAPTER 1

DESCRIPTION OF EQUIPMENT

I - CLASSIFICATION

1-1. CLASSIFICATION OF **QUIPMENT.** - The KY=681/GGC, Command Signal Decoder, and this technical manual are unclassified.

II - GENERAL DESCRIPTION

1-2. PUR**POSE OF EQUIPMENT.** - The purpose of the KY=681/GGC (Figure 1-1 & 1-2) is to decode programmed character sequences and provide command signals.

1-3. FUNCTIONAL DESCRIPTION. - See Figure 1-3* System Block Diagram. The KY_68/GGC will continuously monitor four independent data lines, decode and recognize programmed sequences transmitted over those lines and generate command signals upon recognition of a programmed sequence. The data lines can operate at independent data rates of 75 x 2[°] (where n equals zero or a positive integer) up to 4800 baud. An internal clock is provided for asychrononous operation at 75 baud. At all other modulation rates external clock must be provided at twice the data rate, i.e., for 4800 baud data external clock must be provided at 9600 baud. The KY-681/ GGC can be programmed to recognize up to 12 sequences of 10 characters or less on each of the data lines. Recognition of a programmed sequence results in a pulse output. Each sequence has a separate output line. The monitored data must be in International Telegraph Alphabet #2, American Version. In synchronous operation the input data character interval must consist of a start bit and five data bits. A stop element is not required but, if present, must consist of an integral multiple of the unit interval. For asynchronous operation the character interval must consist of a start bit, five data bits and a stop bit of at least 0.6 of a unit interval duration.

III - PHYSICAL DESCRIPTION

1-4. EQUIPMENT DESCRIPTION. - The KY=681/GGC consists of a single drawer of circuit card assemblies (Figure 1-4). The physical dimensions of the equipment as well as the equipment supplied are listed in Table 1-1. Other equipment required, but not supplied as part of the KY-681/GGC, is found in Table 1-2.

a- <u>Construction</u>. - The KY-681/GGC consists of 19 circuit card assemblies which plug into a printed wiring motherboard. There are four differenttypes of printed circuit card assemblies. Table 1-3 lists the circuit card assemblies and their locations. Each type of card is keyed to match the proper connector in the chassis to prevent inserting cards into the wrong connector. An extender card is supplied with each equipment and is stored in a connector mounted on the motherboard. All external connections are made at four connectors mounted on the rear of the chassis. The chassis is designed for 19-inch rack mounting with or without the use of slides (slides are provided but not mounted). The 19-inch rack mounting brackets are removable allowing the drawer to be mounted in a rack-mounted enclosure.

* This drawing appears in the Appendix

	FIGURE		DI	MENSI	ION	WEIGHT (Ibs)
QUANTITY	REFERENCE	ITEM	w	н	D	(Uncrated)
1	1-1,2-1	KY-681/GGC	19	5-%	15-3/8	30
4		0N150450 Connector (Winchester P/N XAC75PD3A300)				
144		ON 150452-1 Terminal, Pin (Winchester P/N 100-1024P)				
16		ON 150452-2 Terminal, Pin (Winchester P/N 100-1016P)				
1 Pr.		ON 150449 Slide (Grant P/N 329-18)				
960		JAN 1N914 Diodes				
4		No. 8-32 x 3/8 Flat Head Screw (82 ⁰)				
4		No. 8-32 Nut				
4		No. 8 Lock Washer				

Table 1-1. -Equipment Supplied

QUANTITY ITEM	
1	Regulated Power Source of +6 VDC ±1V @ 6.0 AMP
1	Regulated Power Source of -6 VDC ±1V @ 0.7 AMP
1	Regulated Power Source of -12 VDC ±1V @ 0.1 AMP

Table 1-2. -Equipment Required but not Supplied

Qty.	Assembly Ref. Designation	Location	Part Number
4	A1, A2, A3, A4	XA1, XA2, XA3, XA4	ON150438
1	A5	XA5	ON160442
4	A6, A7, A8, A9	XA6, XA7, XA8, XA9	ON150440
10	A 10 through A 19	XA10 through XA19	ON15044

Table 1-3. -Circuit Card Assembly Location

IV - QUICK REFERENCE DATA

1-5. QUICK REFERENCE TABLE. - Table I-4 lists the electrical and environmental characteristics of the KY-681/GGC.

Electrical Characteristics:	
Operating Power Requirements	+6 VDC ±1V @ 6.0 AMP -6 VDC ±1V @ 0.7 AMP -12 VDC ±1V @ 0.1 AMP ground connection
input Signals —	
Current Impedance	Greater than ±15 microamperes 68K ohm load
Frequency	75 4800 baud
Output Signals -	
Voltage Impedance (Source) Pulse Width	±6V ±10% polar Less than 100 ohms Equals one unit interval at the input data modulation rate
Environmental Characteristics:	
Ambient Temperature	
Operating Non-operating	0°C to 55°C -62°C to 75°C
Heat Dissipation	45 watts
Air Conditioning	Not required
Humidity	95% relative humidity
Altitude	Continuous operation to 10,000 fee

Table 1-4. -Quick Reference Table

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Figure 1-1. - KY- 681/GGC

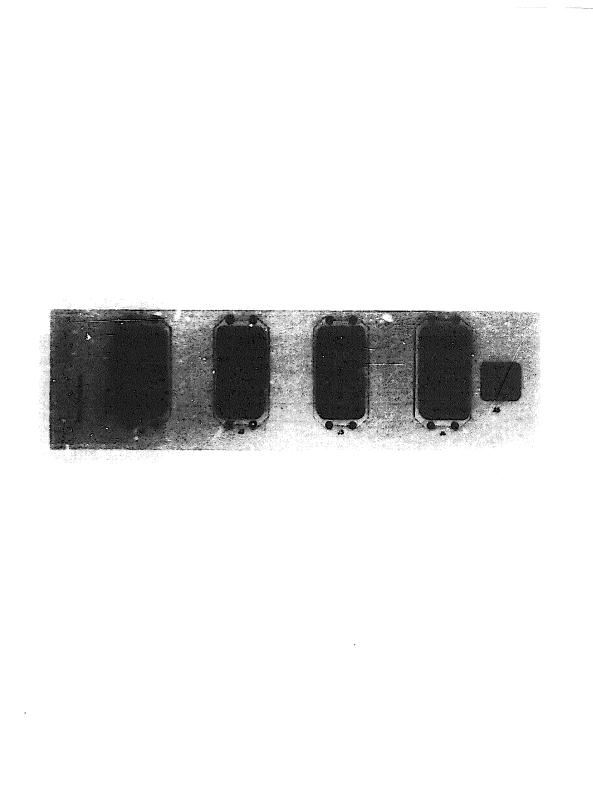


Figure 1-2. - KY-68l/GGC Connector Panel

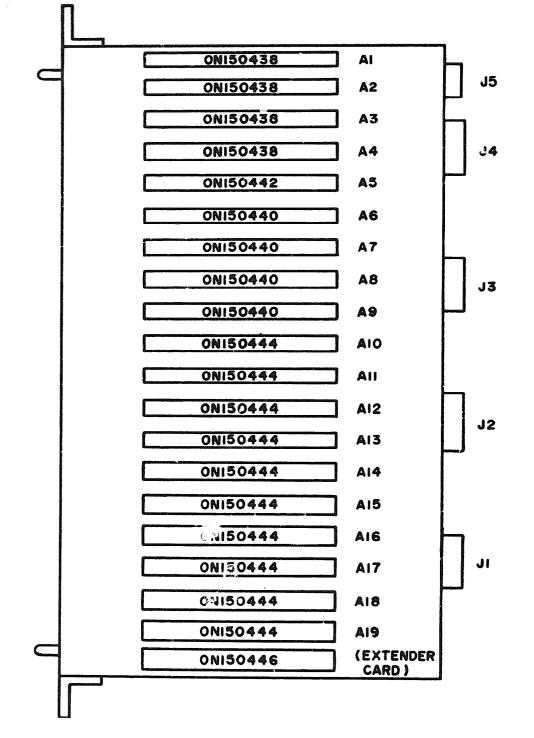


Figure 1-4. Card Layout

CHAPTER 2

INSTALLATION

I- UNPACKING AND INSPECTION

2-1. UNPACKING. Unpacking should be done near the area where the equipment is to be installed. No special equipment is required.

a. Packaging Data. The KY-681/GCC is packed in individual corrugated cartons with protective filler. The programming diodes, connector pins, and slides are individually wrapped and are included in the corrugated carton. The carton is approximately 7 inches high, 20 inches wide, 20 inches deep. The uncrated weight for each unit is approximately 40 lbs.

2-2. INSPECTION PROCEDURE. Inspect the equipment for completeness as **listed on the packing slip and for dam**age incurred during shipment. If a packing **slip is not available check the equipment** against Table 1-1.

2-3. DAMAGE REPORT. - Damages or shortages should be reported in accordance with those instructions issued by the custodial department or agency.

II-INDIALLATION PROCEDURES

2-4. GENERAL. - The KY-681/GGC is constructed for mounting either in a standard 19 inch rack or in an enclosure with the chassis slides supplied.

2-5. TOOLS AND TEST EQUIPMENT. - No special test equipment is required. Table 2-1 lists the special tools required for crimping the connector terminals to the connecting cable.

2-6. LOCATING THE EQUIPMENT. - The KY-681/GGC should be installed allowing a minimum access of 24 inches between the rear of the equipment and 30 inches between the front panel of the unit and other equipment in the area.

MS Part Number	Winchester Part Number	Nomenclature
MS-3191-2	107.0970	Crimp Tool
MS-3191-20B	107-0976	Positioner
MS 3191-16B	107-0977	Positioner
	107-1015	Contact Insertion Too!
	107R-1001	Contact Removal Tool

 Table 2-1.
 -Special Tools







2-7. MOUNTING THE EQUIPMENT. - The KY-681/GGC has two methods of mounting.

a. <u>Fixed Rack Mounting</u>. - The KY-681/GGC is provided with removable mounting brackets which permit the unit to be fixed mounted in an RR197 rack. There are four mounting screw slots that will align with mounting screw holes in the RR197 rack. The slots are standard EIA dimension for a 5-1/4 inch panel.

b. <u>Slide Mounting</u>. - A set of unmounted accessory slides is provided with each unit. The slides are normally used when the equipment is to be mounted in an enclosure. Attach the slides to the KY-691/GGC chassis using $#8-32 \times 3/8$ inch flat head screws, #8-32 nuts and #8 lockwashers (Table 1-1). If the mounting brackets are not required they should be detached from the chassis by removing four screws.

²⁻⁸. WIRING AND CABLING. - All external cabling terminates on the four connectors (Winchester P/N XAC75PD3A300). There is one connector for each of the four channels (J1, J2, J3, J4). Prefabricated cables are not supplied with the unit However, the cable terminating pins and connectors are supplied.

<u>a.</u> <u>Preparation</u>. - Remove the connector body from the connector hood by removing the four attaching screws. (It is not necessary to remove the jack screws.) The cable should be fed through the connector hood cable clamp. The hood should be placed at least one foot from the wire end and left loose until the wire terminations are completed.

<u>b.</u> Wire Table Usage. - Table 2-2 lists the signal names and connector pin num bers of the input/output wiring. The table applies to J1, J2, J3 and J4, since the signal names and pin numbers are the same for each channel. Use #24 AWG wire unless otherwise noted in the table.

Typical Wiring Procedure. ~ Tools required for terminating wires in the XAC751 D3A300 connector are wire cutters, wire strippers and those special tools listed in Table 2-1. Crimp tool MS3191-2 is used with MS3191-20B to crimp #24 AWG and with MS3191-16B to crimp #16 AWG wire. Wire #24 AWG is crimped into 0N150452-1 terminal pins and #16 AWG wire is crimped into 0N150452-2 terminal pins. To crimp a terminal pin on a wire, first strip 3/15 of an inch of insulation from the end of the wire. Then, insert the stripped end into the barrel of the terminal pin until the wire bottoms in the pin. Crimp the pin onto the wire using the proper positioner with the crimp tool. After crimping, insert the pin into the proper location in the connector block. Insert the pin from the back (hood side) of the connector block. Use the insertion tool, Winchester P/N 107-1015, to press the pin into its locked position. To remove a pin from the connector block use the contact removal too, Winchester P/N 107R-1001. Insert the removal tool in the proper location in the front of the connector block. Apply constant pressure until the pin is released. After all wires and pins have been crimped and inserted into the connector block, reassemble the connector block and hood and tighten the cable clamp. When the chassis is to be slide-mounted, leave sufficient slack in the cable to permit full withdrawal of the chassis on the slides.

2-9. PROGRAMMING. - The KY-681/GGC contains two levels of programming. The first level selects proper interface modes and is implemented by means of wire



Signal Name	Connector Pin No.
Sequence No. 1 polar	1
1 neutral	2
2 polar	3
2 neutral	4
3 polar	5
3 neutral	7
4 potar	8
4 neutral	10
5 polar	11
5 neutral	12
6 polar	13
6 neutral	14
7 polar	15
7 neutral	16
8 polar	17
8 neutrai	18
9 polar	20
9 neutral	21
10 polar	22
10 neutral	23
11 polar	24
11 neutral	25
12 polar	26
Sequence No. 12 neutral	27
Data In	28
Data Return	29
Clock In	30
Clock Return	31
Polar Data Bias	37
Data Bias In	38
Neutral Data Bias	39
Polar Clock Bias	40
Clock Bias in	41
Neutral Clock Bias	42
External Clock Select	43
Clock Select In	44
Internal Clock Select	45
Pulse Width Select In	47
4800 p w Select	49
2400 p w Select	50
1200 p w Select	51
600 p w Select	52
300 p w Select	53
150 p w Select	54
75 p w Select	55
+6 VDC (No. 16 AWG)	65
-6 VDC (No. 16 AWG)	66
-12 VDC (No. 16 AWG)	67
GND (No. 16 AWG)	70

Table 2-2. -Wire Table

jumpers on the rear connectors (JI, J2, J3 and J4). The second level of programming is for recognition of sequences and is implemented by positioning diodes on the Register/Program Cards (A10 through A19).

a.- Interface Programming-. - The following description is for programming one rear connector (J1) which is associated with a single input line. The other three connectors (J2, J3, J4) are programmed in a similar manner.

(1) <u>Polar/Neutral Input.</u> - Polar or Neutral data and external clock may be used as input signals to the KY-681/GGC. The selection **for polar or neutral** operation is made by biasing the input interface circuit (A1MD9A and B) co accept the signals applied to the inputs. Table 2-3 lists the jumpers to be installed on the connector for selection of the bias voltage.

Polar		Neutral
Data	Jumper pin 37 to 38	Jumper pin 38 to 39
Clock	Jumper pin 40 to 41	Jumper pin 41 to 42

Table 2-3. -Polar/Neutral Programming

(2) <u>Internal/External Clock.</u> - The KY-681/CGC may operate synchronously with external clock at data rates from 75 to 4800 baud or asynchronously at 75 baud only using internally derived clock. The connections for internal or external clock selection are listed in Table 2-4.

External Clock	Internal Clock
Jumper pin 43 to 44	Jumper pin 44 to 45

Table 2-4. -Clock Programming

(3) <u>Output Pulse Width</u>. - The output pulse width is programmable to be approximately one unit interval at the input modulation rate. The programming connections for data rates from 75 to 4800 baud in increments of 75 x 2 are **listed** in Table 2-5 where n is zero or a positive integer.

Jumper pin 47 to pin			
49			
50			
51			
52			
53			
54			
55			

Table 2-5. -Pulse Width Programming

b. Sequence Programming. - Up to 12 sequences containing up to 10 characters each may be programmed for each of the 4 input lines. The programming of each character requires the positioning of two diodes on one of the Register/Program Cards. The first diode selects one of the eight possible combinations of the first three bits (000, 001, 010, 011, 100, 101, 110, 111). The second diode selects one of the four possible combinations of bits four and five (00, 01, 10, 11). A Register/ Program Card contains the storage, decoding and programming points for one character in each of 48 sequences, 12 for each of 4 lines. Therefore, ten cards (A10 through A19) are required to program up to ten characters per sequence. The 48 character programming sections are arranged in 12 groups of 4 with the groups numbered on the card. Each group represents one of the 12 possible sequences for a line with one section for each of the 4 input lines. When a ten-character group is transferred into the Register/Program Cards from an Input Card, the most recent character received always is located in the register on card Al0. The character preceding that is located on card All, etc., with the oldest of the ten characters on card Al9. Therefore, when programming for any sequence, the last character (N) must be programmed on card Al0, next to last (N-1) on card All, etc. Only the number of characters contained in a sequence need to be programmed so that sequences of less than ten characters do not **require programming** on all ten cards. Since the last character (N) in any sequence is programmed on card Al0, this position is used as a reference and the sequence is programmed in reverse order (N, N-1, N-2, N-3, etc.). For example, the procedure for programming sequence AB(BLANK)C as sequence 1 of line 1 and X8YZ as sequence 1 of line 2 is as follows: - (1) Make a table as shown in Table 2-6 listing all characters in reverse order with their binary equivalent; (2) program the last character of the two sequences $C \begin{cases} 54321\\01110 \end{cases}$ and $Z \begin{cases} 54321\\10001 \end{cases}$ on card A10 as shown in Figure 2-2; (3) pro-

gram the next to last (N-I) character of each sequence (BLANK and Y) on card All as shown in Figure 2-3; (4) program the (N-2) character of each sequence (33 and LTRS) as shown in Figure 2-4; (5) continue until all characters for both sequences are programmed (see **Figures** 2-5, 2-6 and 2-7). The non-printing letters and figures shift **characters must be programmed** as indicated in sequence 1, line 2, as shown in Table 2-6 because they appear as part of the sequence.

CHARACTER (Card Location)

	N(A10) N-1	N-1(A11)	1) N-2(A12)	N-3(A13)	N-4(A14)	N-5(A15)	N-6(A16)	N-7(A17)	N-8(A18)	N-9(A19)
Bits	54 321	54 321	54 321	54 321	54 321	54 321	54 321	54 321	54 321	54 321
	C 01 110	BLANK 00 000	B 11 001	A 00 011						
	Z 10 001	Y 10 101	LTRS 11 111	8 00 110	FIGS 11 011	X 11 101				

Table 2-6. Programming Table

III - INITIAL OPERATION

2-10. INITIAL OPERATION AND TEST. - The KY-681/GGC requires no preliminary adjustment or calibration before initial operation. Introduce test sequences following programming according to Section 2-9 for content, voltage levels, data rate, and clock source. Observe the waveforms of each used **output** for correct occurence, pulse width, and amplitude. A positive output pulse should begin near the middle to end of the fifth data bit of the last character in a sequence and be approximately one bit in duration. The normal state of the output signal should be near -6 volts and change to +6 volts (polar) or ground (neutral) upon activation.



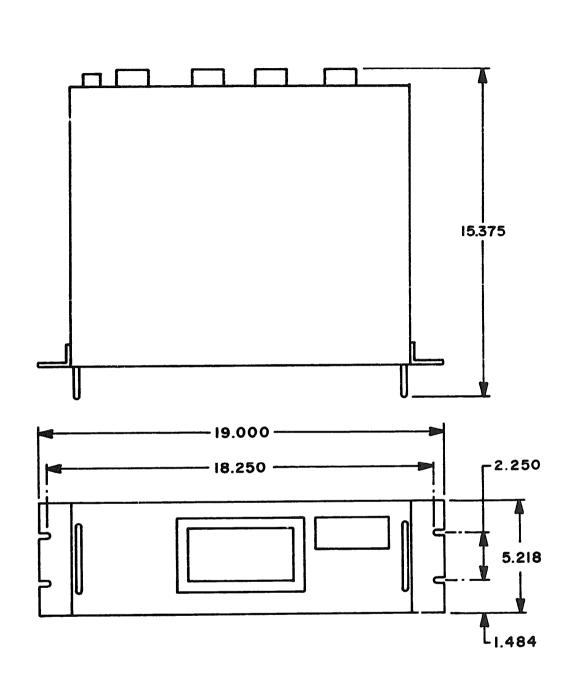
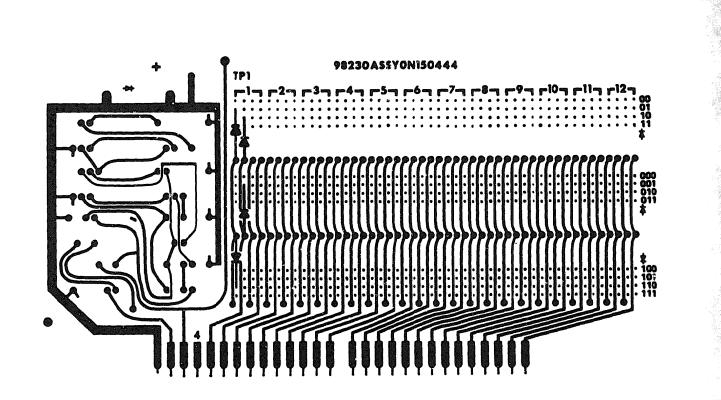
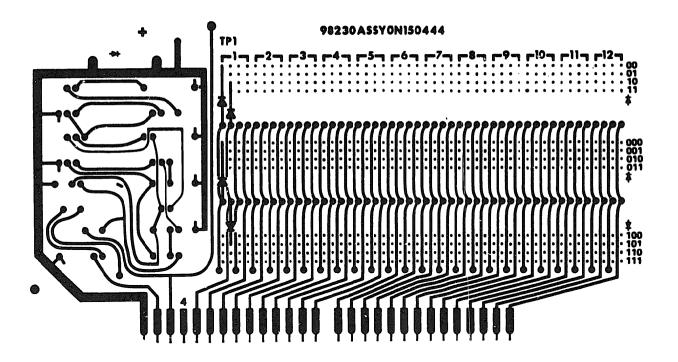
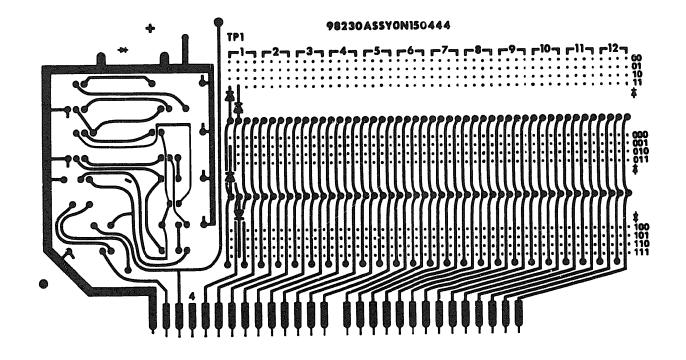


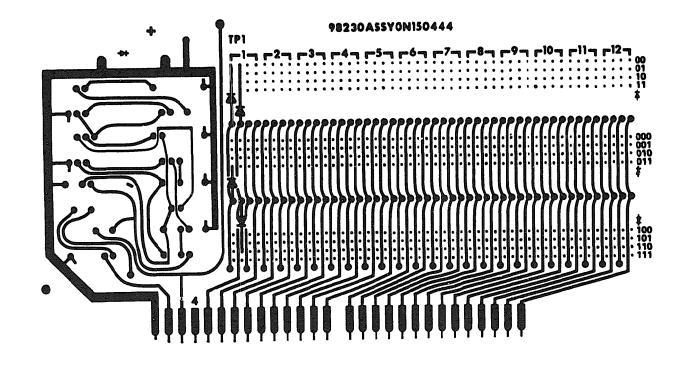
Figure 2-1. - Equipment Dimensions

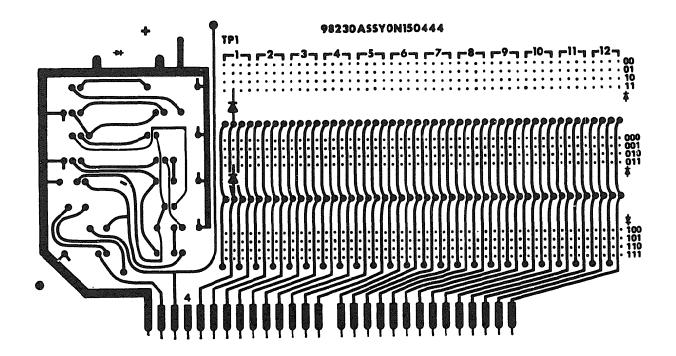


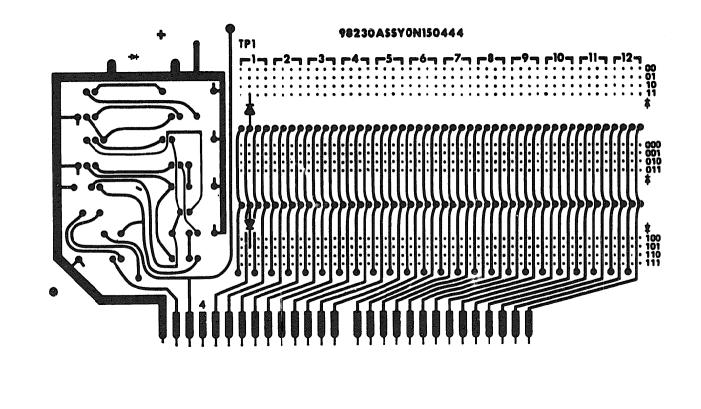












CHAPTER 3

OPERATING INSTRUCTIONS

I - OPERATING PROCEDURE

3-1. OPERATOR CONTROLS. - The KY=681/GGC has no front panel controls and requires no operator intervention.

3-2. POWER TURN-ON. - Power turn-on should be a maintenance function. There are no special start/stop instructions for the KY=681/GGC. Synchronization is automatic after power turn-on.

CHAPTER 4

PRINCIPLES OF OPERATION

I - BASIC PRINCIPLES

^{4-1.} **GENERAL. - The KY-681/GGC contains circuitry which monitors the data on four independent lines and provides** an output signal for each programmed **sequence that is recognized. The logic circuits** used are integrated circuit modules **packaged in 14 and 16 pin dual in-line cases.** They are grouped according to func**tion on circuit card assemblies which** are then interconnected by a printed wiring motherboard.

II-FUNCTIONAL DESCRIPTION

4-2. KY-681/GGC. - The KY-681/GGC is a digital data line monitor which provides the **capability of** continuously monitoring the data on **four** independent lines. The data lines can be operating at the same or different modulation rates up to and **including** 4800 **baud** when accompanied by clock at twice the data rate. (For example, a 4800 **baud** data line **requires a** square **wave** 9600 baud clock.) Also, internal clock is provided for asynchronous operation at 75 baud. The unit can be programmed to **detect as many as 12 sequences of ten characters** or less per line (48 sequences total). **Recognition of a sequence causes an output** pulse to be produced which is approximately one unit interval in width at the incoming data modulation rate. Twenty-four **outputs (both polar and neutral for each of twelve** sequences) are individually avail.. **able for each of the four data lines.** All characters recognized must be in five bit format, ITA #2, American version. Also, for asynchronous operation they must be accompanied by a unit interval start bit and a stop bit of at least 0.6 unit interval. When operating synchronously with external clock, the stop bit may or may not be present. When present it must be an integral multiple of a unit interval. Refer to Figure 1-3,* KY-681/GGC System Block Diagram as a reference for the following discussion of the function of each of the major sections.

a. <u>ON150442 Timing Card Assembly</u>. - The Timing Card Assembly contains timing circuits for generating system clock control signals, and the combiner for time division multiplexing the outputs of the four Input Card Assemblies for entry of data into the Register/Program Card Assemblies.

b. <u>ON150438 Input Card Assembly</u>. - The Input Card Assembly contains three types of circuits: character synchronizer circuits, storage and control circuits, and reset counter circuits. The character synchronization circuits provide character framing of the incoming data for removal of start and stop bits and to permit operation with variable length stop bits. They also provide internal clock synchronization when operating asynchronously at 75 baud. The storage and control circuits store the most recent ten characters of incoming data (less start and stop bits) in a storage register. After each new character is accumulated in the storage register (replacing the oldest one), the ten character group is transferred non-destructively by the control circuits into the Register/Program Card Assemblies where it is examined for the presence of programmed sequences. Recognition of a sequence initiates an output pulse. The reset counter determines the output pulse width for a detected sequence. It accepts clock at 8 times the data rate and produces a reset signal at the end of a count of eight clock transitions which resets any output storage flip-flops that were previously set upon recognition of a sequence.

* This drawing appears in the Appendix

c. <u>0N150444 Register/Program Card Assembly</u>. - The Register/Program Card Assembly contains a single character shift register, decoder circuits, 48 character program positions (one for each sequence) and a divide-by-two circuit. Ten of these Card Assemblies are necessary for the storage and programming of sequences containing up to ten characters. The character register stores a five bit character while the program detects the desired characters. The decoder circuits simplify the programming of each character by partially decoding the outputs of the character register. The 48 outputs of the program section for each card are combined with the identical outputs of the 9 other Register/Program Cards in 48 common bus lines. The 48 bus lines (12 for each data input line) are distributed to the Cutput Card Assemblies where a detected sequence is used to enable a storage flip-flop. The divide-by-two circuit on the Register/Program Card Assembly is used in conjunction with signals from the Timing Card Assembly to provide the programmable clock signals for the reset counter circuit. Also, a 1200 Hz clock is derived for internal clocking of asynchronous data.

d. <u>0N150440 Gutput Card Assembly</u>. - The Output Card Assembly contains 12 flip-flop storage elements and polar and neutral drivers for the output signals. Each flip-flop is connected to a separate bus line from the Register/Program Card Assembly and is enabled by a detected sequence signal on the bus line. Set and reset pulses from the associated Input Card Assembly then cause the flip-flop to produce a pulse of one bit duration at the incoming data modulation rate. The polar interface circuits must the low level requirements of MIL-STD-188B and the neutral circuits a e capable of driving a FLYBALL logic input. Both types of outputs are available for simultaneous use.

III - CIRCUIT DESCRIPTION

4-3. LOGIC DIAGRAMS. - The logic diagrams for the KY-681/GGC are Figures 4-1*,4-2*,4-3*, and 4-4*. They describe the system and unit function in a left-toright signal flow wherever possible. The modules are identified by an MD number and stages within a module are referenced by an alpha character following the MD number (e.g., MD1A). Also, a number referencing the figure number of the module schematic is included in the logic symbol. Since all module schematics are located in Chapter 4, a single number is used and the chapter number is understood to be Chapter 4.

4-4. DETAILED CIRCUIT DESCRIPTION.

a. System Clock. - See Figure 4-3.* Internal timing for the KY-681/GGC is derived from an 8 MHz crystal oscillator located on the Timing Card Assembly (A5). The oscillator consists of module A5MD1, an 8 MHz crystal A5Y1, and drive limiting resistor A5R2. The 8 MHz clock is divided by flip-flops A5MD2B, MD2A and MD3B to a frequency of 1 MHz, which is the basic frequency for transferring data between registers in the system. The 1 MHz clock is power amplified by inverter A5MD6A and distributed through A5-H to the Input Card Assemblies (Figure 4-2)*A1, A2, A3, A4-H. Modules A5MD3A, 4B, 5B and 5A divide the 1 MHz frequency by 14 which is then applied through A5-2 and A13-B to module MD5B on card A13 (Figure 4-1)*for Jivision by two. Further division takes place on the Register/Program Cards A14, A15, A16, A17, A18 and A19, Modules A5MD3A, 4B, 4A and 5B and 5A are preset to a count of two (0010) by a pulse from

* These drawings appear in the Appendix

A5MD5A at the beginning of each cycle. Therefore, two counts (0000 and 0001) are skipped which causes the counter to divide by 14 instead of its normal 16. Flip-flop A5MD5A is set when the ccunter advances from 1111 to 0000. The output of A5MD5A then causes A5MD4B to set and change the count to 0010. A5MD5A is reset 250 nanoseconds later by the 2 MHz clock from A5MD2A. The output of A13MD5B is amplified and inverted by A. MD7B and serves as the 8 times clock for 4800 baud operation. Similarly, module MD5B on cards A14, A15, A16, A17, A18 and A19 provides 8 times clocks for 2400, 1200, 600, 300, 150 and 75 baud respectively. These clock rates are routed to J1, J2, J3 and J4 for programming to the reset counter located on the Input Card Assemblies. (See paragraph 2-9 for programming instructions.) The output of card A18-2 also serves as the 16 times clock for internal clocking of asynchronous data. It is applied to the Input Cards (A1-A4) through pin N of each card.

<u>b.</u> <u>Data Input.</u> – <u>See Figure 4-1.*</u> The operation of the Input Card Assemblies (A1-A4) is identical and only A1 is discussed in detail.

(1) <u>Character Synchronization</u>. - Character synchronization of the KY-681/GGC with incoming data is necessary in order to strip off the start and stop bits, and to operate with variable length stop bits. It is also necessary when operating with 75 baud asynchronous data because it allows resynchronization of data and internal clock on each character.

External Clock Operation. - (See paragraph 2-9) for external (a) clock programming instructions.) External clock and data enter the KY-681/GGC via the polar/neutral low level interface modules A1MD9A and A1MD9B respectively. The system is designed to synchronize on the repetitive start bit (SPACE) in each character. Therefore, the data must contain either a letter shift character or a random pattern of other characters to achieve synchronization. The data output of interface module A1MD9B is inverted by A1MD4B so that a SPACE level enables the set gate of flip-flop A1MD5A. The negative transitions of the clock are differentiated and amplified by C1, R1 and A1MD2B. These pulses, which occur near the center of the data bits, are applied to the clock input of A1MD5A. Therefore, if the flip-flop (A1MD5A) has been previously reset, the occurrence of a SPACE (when in synchronization this would be the start bit) in the data will cause it to be set. Its output then enables the counter, consisting of modules A1MD13A, MD14B and MD14A. The next four clock pulses (in time with data bits 1, 2, 3 and 4 when in synchronization) are then counted which causes the last counter stage A1MD14A to be set. The output of A1MD14A enables the reset gate of flip-flop A1MD5A. Flip-flop A1MD5A is then reset by the clock pulse which normally occurs in time with the fifth data bit after synchronization has been derived. The output of MD5A then resets the counter and prepares it for the next cycle. The next SPACE bit will cause flip-flop

the cycle. Since it must wait for SPACE bits to occur, the synchronization cycle will slip until A1MD5A is always set during the start bit and reset during the fifth data bit when a letter shift or random sequence of characters is being received. This is true because the start bit is always the next SPACE bit following the fifth data bit, regardless of the length of the stop bit which is a MARK.

(b) <u>Internal Clock Operation</u>. - (See paragraph 2-9 for internal clock programming instruction.) Internal clock is used only when operating with 75 baud asynchronous data. A 1200 hertz timing signal derived from the crystal clock is received at input **AI-N**. It is then divided down to 75 hertz by a counter consisting of flip-flops Al**MD**IIB, MDIIA, MDI2B and MDI2A. SPACE bits in

* This drawing appears in the Appendix

the data stream pass gate AIMDIOC and enable gate AIMD10A. Gate AIMD10A allows the 1200 hertz clock to enter the counter. This gate is also enabled by flipflop A1MD5A, so that once a synchronization cycle has started, the 1200 hertz clock will continue to enter the counter until the end of the cycle. When flip-flop AIMD5A is reset, it stops the clock and causes the counter to await the next SPACE bit before repeating this cycle. Therefore, the counter is resynchronized at the beginning of each character. The counter is set to an initial count by a signal from flip-flop AIMD15A after each cycle. This insures that the first negative transition of the counter. output occurs near the center of the SPACE bit at the beginning of the next cycle. The counter output is then used exactly like the external clock of paragraph 4.4. b. 1 to clock the input data and achieve character synchronization.

(2) Character Storage. - After synchronization has been obtained, flipflop AIMD5A enables flip-flop AIMD13B during each character cycle. AIMD13B is then set by the clock pulse which occurs during each of the five data bits. The output of flip-flop AIMD13B then enables the set side of flip-flop AIMD6B. The next 1 MHz clock pulse sets AIMD6B which in turn resets AIMD13B. This causes flip-flop AIMD13B to then enable the reset side of flip-flop AIMD6B which is then reset on the following 1 MHz clock pulse. Therefore, the output of flip-lop AIMD6B is a one microsecond pulse. This pulse is used to sample the five data bits for entry into a storage register. The storage register (AIMD1) is a metaloxide semiconductor (MOS) integrated circuit which consists of two 32-bit static shift registers in one package. These are connected in series for a total of 64 bits of storage. However, only the first 50 bits of this register are useful to the operation of the KY-681/GGC (10 characters of 5 bits each).The one microsecond pulses pass gate A1MD2D and are amplified by a discrete component circuit consisting of QI, C5, R6, R2 and R3 for driving the clock line of the MOS register. The input data is presented to the register input through gate A1MD3B. A new bit is entered during each sample pulse and the oldest bit is shifted out the end and discarded. However, since the sample pulses only occur during the five data bits after synchronization has been obtained, the start and stop bits are not sampled, which prevents them from being stored.

<u>c.</u> <u>Data Transfer</u>. - When flip-flop AIMD5A is enabled and reset during the fifth data bit, flip-flop AIMD5B is enabled and set. The purpose of flip-flop AIMD5B is to indicate that a complete new character has been accumulated in the MOS storage register. The new character, along with the 9 previous characters are now ready for transfer from the MOS register to the 50-bit shift register located on the Register/Program Cards AI0-A19. The output of flip-flop AIMD5B is delayed by flip-flop AIMD7B to insure that the fifth data bit is entered into the MOS register before the transfer begins. Flip-flop AIMD7B enables one input of gate AIMD10B. This gate is fully enabled when the commutating counter (see Figure 4-1,* Modules A5MD9A, MD10B and MD10A) reaches the count which gate AIMD10B is wired to decode. Modules A5MD10B and A5MD10A divide by four and the four states of this counter are decoded by gate MD10B on the four Input Card Assemblies (AI-A4). Since each card decodes a different state or combination, only one can be enabled at a time. Therefore, if two or more inputs have data ready for transfer at the same time, the counter will cause them to wait their turn. The output of gate AIMD10B disables data entry gate AIMD3B and enables recirculation gate AIMD3D and transfer gate AIMD3A through inverter AIMD4D. The output of AIMD4D is passed through inverter AIMD3C to output PThis output is combined, by a collector-wired OR, with the equivalent output from the other

* This drawing appears in the Appendix

three Input Cards A2-A4. However, the commutator allows only one input to this OR to be active at any one time. This signal enters card A5-13 (Figure 4-1,* Logic Diagram Timing Diagram), disables the commutator counter, and enables gate A5MD6B through inverter A5MD6C. By stopping the counter, the commutator is forced to lock onto the input line and wait until the data for that line is transferred before continuing to search for another line that is ready. Enabled gate A5MD6B allows 1 MHz clock to pass and enter the shift registers on the Register/Program Cards through A5-D and Al0D through A19D. Simultaneously, gate AIMD2A is enabled by inverter AIMD4D and allows 1 MHz clock to enter the MOS storage register. Therefore, both the MOS register and the shift register start shifting at the same time. The data from the MOS register passes gate AlMD3A which is combined, by a collector-wired OR, with similar outputs from the other three Input Cards (A2-A4) and is transferred to inverter A5MD6D through Al-J and A5-8. The data from A5MD6 continues to the first Register/ Program Card A10 through A5-C and A10-C. One bit of data is transferred by each 1 MHz clock pulse sc that after 64 pulses, the entire contents of the MOS register have been entered into the shift register. Simultaneously, the data is reentered into the MOS register via gate AIMD3D so that no data is lost during the transfer. While the data is shifting, the 1 MHZ clock is divided by 64 by a six stage counter consisting of MD5B on cards A10, All, Al2 and MD7A, MD7B, MD8B on card A5. A one-microsecond pulse is generated by flip-flops A5MD8A and A5MD9B at the end of the count. This pulse from flip-flop A5MD9B enables gate AIMD4C through A5-14 and Al-R. The other input to this gate was previously enabled at the beginning of the transfer by inverter AlMD4D. The output of gate AIMD4C enables the set input of flip-flop AIMD6A through inverter AIMD4A. Flip-flop AIMD6A is then set by the next 1 MHZ pulse. This is the same clock pulse which transfers the 64th bit. The output of flip-flop AIMD6A then resets flip-flops AIMD5B and AIMD7B. This causes the output of flip-flop AIMD7B to disable gate AIMDI0B which stops the transfer of data and enables the commutator. However, flip-flop A5MD9A forces the commutator to wait two microseconds so that the contents of the shift register can be examined for sequences before advancing to another input line.

d. Sequence Recognition. - (See paragraph 2-9 for sequence programming instructions.) The contents of the shift register on the Register/Program Cards Al0-A19 are examined for programmed sequence by diode matrices. Each Register/Program Card (see Figure 4-4*) contains a single character register (5 bits) consisting of flip-flops MDlB, MDlA, MD3B, MD3A and MD5A. This character register is divided into two sections with flip-flops MDlB and MDlA in one section and MD3B, MD3A and MD5A in the other. The 4 and 8 combinations respectively of the two sections are then completely decoded. This partial decoding technique simplifies the programming. The decoding of data bits 1, 2 and 3 (located in flip-flops MD5A, MD3A and MD3B respectively) is done by gates MD4B(000), MD4C(001), MDSA(010), MD6B(011), MD6C(100), MD8A(101), MD8B(II0) and MD8C(111). The numbers in parentheses are the binary equivalents of the three data bits where a '1' represents a MARK and a '0' represents a SPACE. Likewise, data bits 4 and 5 located in flip-flops MDIA and MDIB respectively are decoded by gates MD2A(00), MDBB(01), MD2C(10) and MD4A(11). Only one output of each decoding matrix needs to be selected for each character that is programmed instead of selecting from either the '1' or '0' output of each register stage. The programmed diodes for each sequence are bussed together. When all characters in a programmed sequence (for example, sequence 1) are located in the appropriate

* This drawing appears in the Appendix

character registers, a gate is enabled on the Output Card Assembly that is associated with the Input Card Assembly for that line. The card associations are (input and output) Al and A6, A2 and A7, A3 and A8, A4 and A9.

e. Output Signal Generations. - (See Figure 4-2.*) The operation of the Output Card Assemblies (A6-A9) is identical and only A6 is discussed in detail. Gate **A6MD**13F is enabled by the recognition of programmed sequence 1. Its output then enables one input of gate A6MD4A. A pulse from flip-flop AlMD6A, via AlMD16C and 16B, passes through Al-14 and A6-14 and inverter A6MD14A to enabled gate A6MD4A. The pulse passes on through gate A6MD4A and sets the R-S flip-flop formed by cross-coupled gates A6MD3C and A6MD3D. A pulse from flip-flop A1MD6A also resets flip-flop AlMD8B, AlMD8B enables the counter consisting of AlMDI5A, MDI5B and MD8A and allows it to start counting the 8 times clock at its input. This clock is operating at 8 times the input data modulation rate (see paragraph 2-9 for programming instructions.) After 8 pulses are counted, flip-flop APMD8B is set. The output of flip-flop AlMD8B then passes through Al-15 and A6-S, and is inverted by A6MD14B, and resets flip-flop AGMD3C-D. Therefore, flip-flop A6MD3C-D remains in the set condition for a period approximately equal to one unit interval at the incoming data modulation rate. This positive output pulse from flip-flop AGMD3C-D is amplified by polar interface circuit A6MD12A and shaped by resistor R24 and capacitor C8. Also, a neutral signal is provided by clipping the top off the polar signal with resistor R25 and diode CR6. The polar and neutral outputs are then routed through A6-N and A6-P respectively to Jl-1 and 51-2.

* This drawing appears in the Appendix

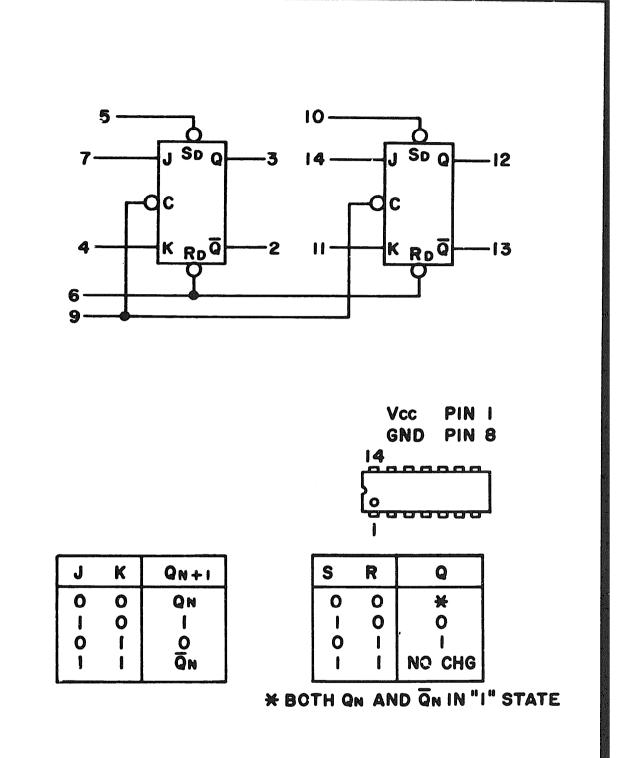


Figure 4-5. - Logic Diagram J-K Binary

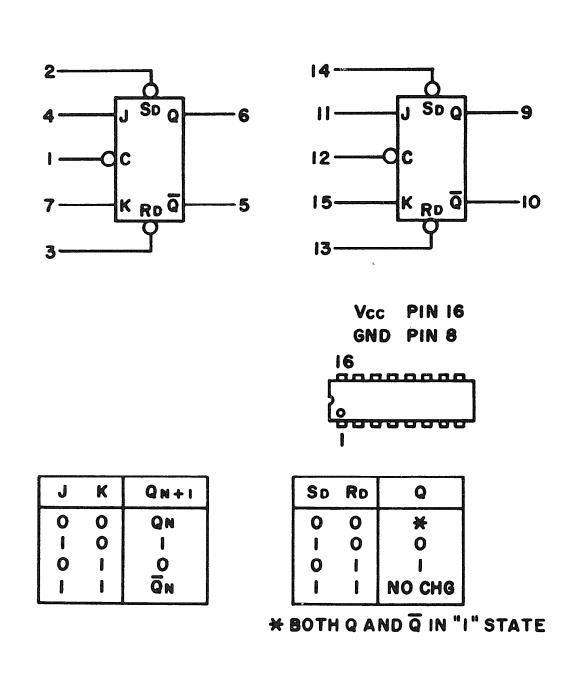
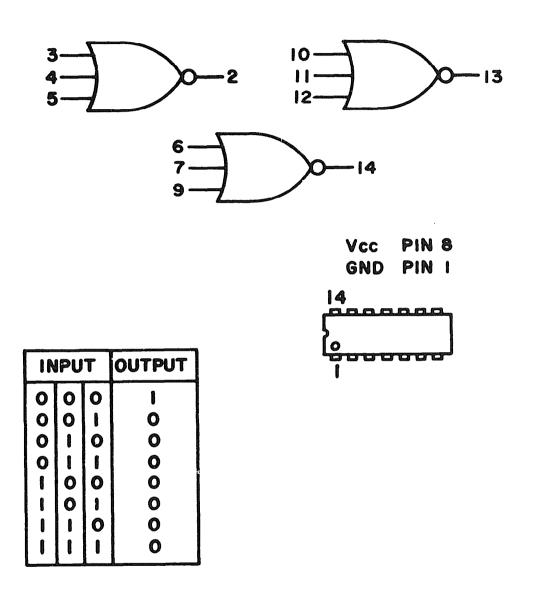
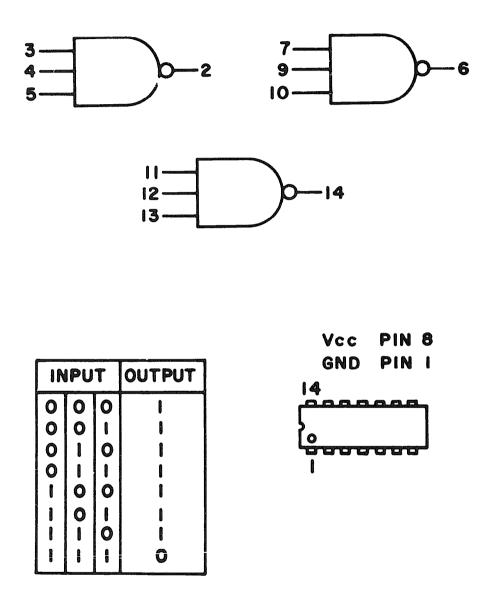
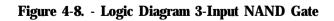


Figure 4-6. Logic Diagram J-K Binary







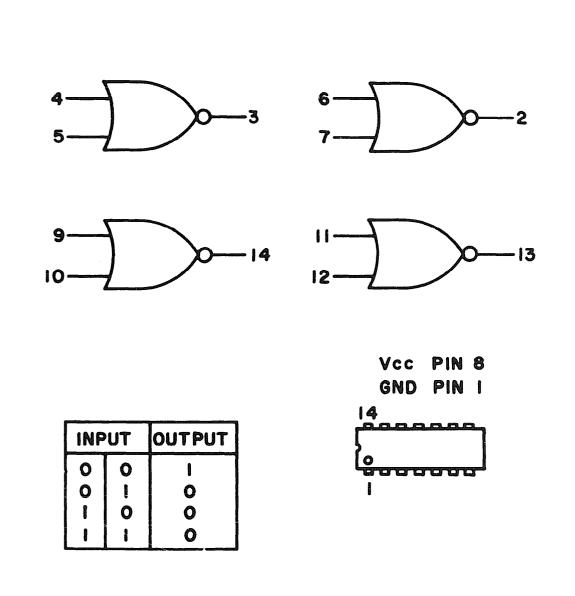


Figure 4-9. - Logic Diagram 2-Input NOR Gate

4 - 1 1

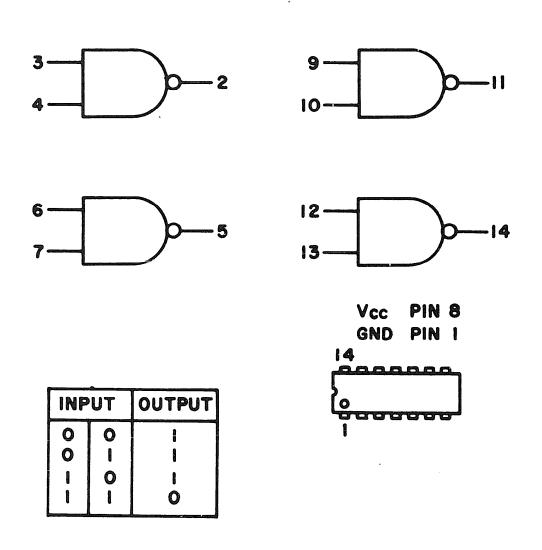


Figure 4-10. Logic Diagram 2-Input NAND Gate

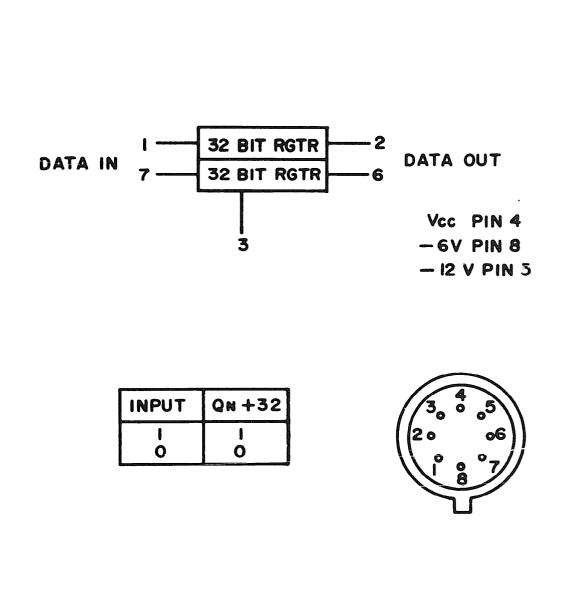


Figure 4-11. - Logic Diagram 32 Bit Static Register

4 - 1 3

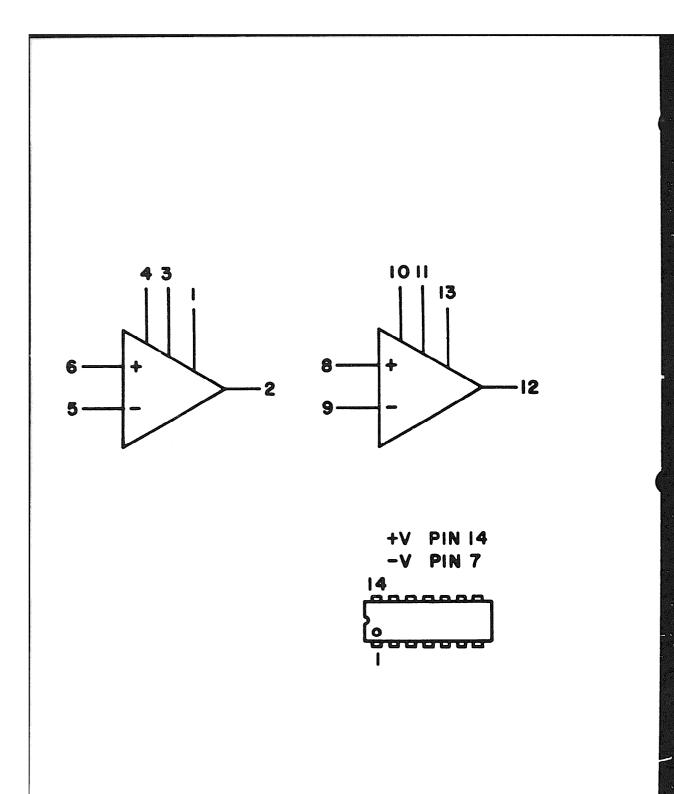


Figure 4-12. Logic Diagram Operational Amplifier

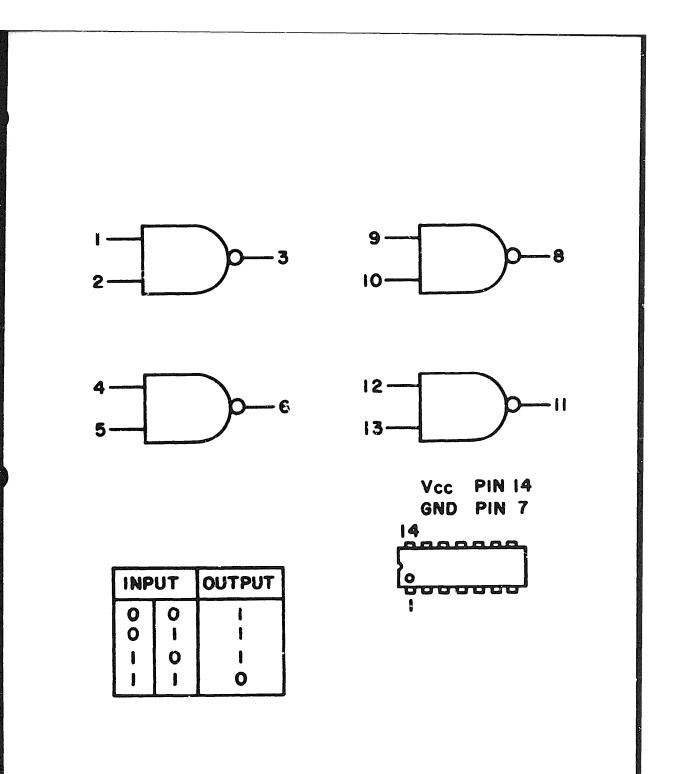


Figure 4- 13. - Logic Diagram 2-Input NAND Gate

4 - 1 5

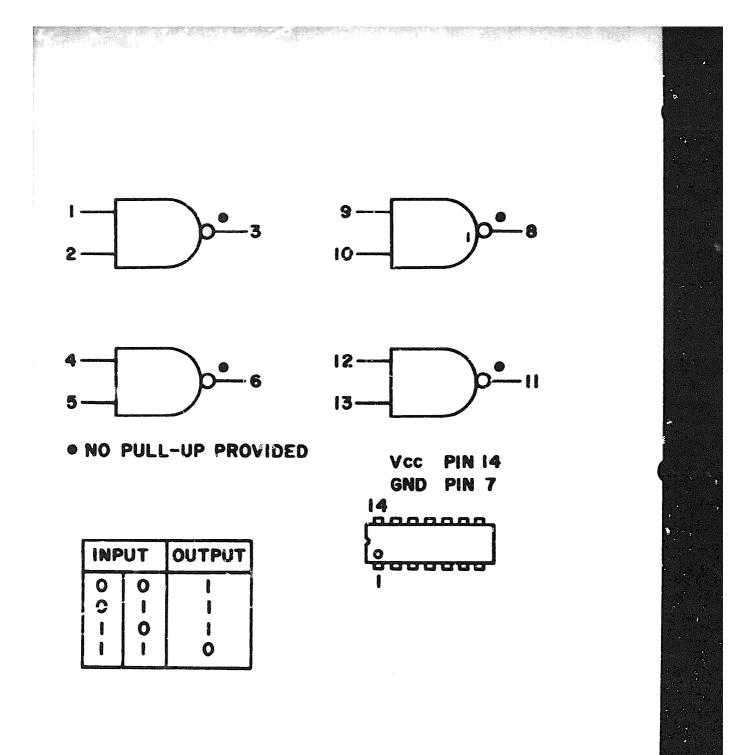
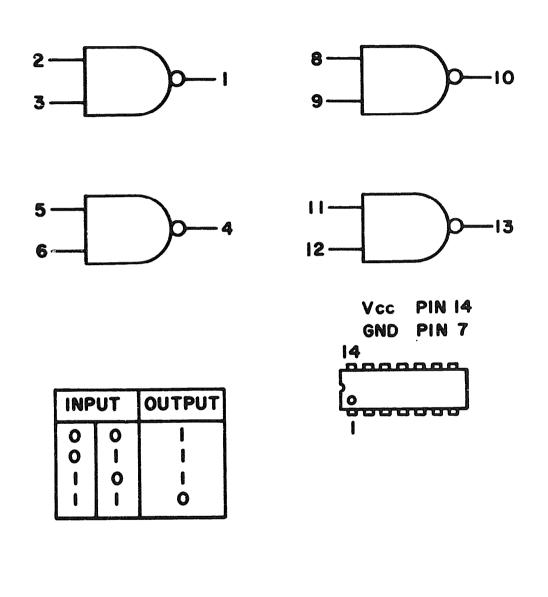
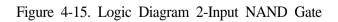


Figure 4-14. - Logic Diagram 2-Input NAN.D Gate





4 - 1 7

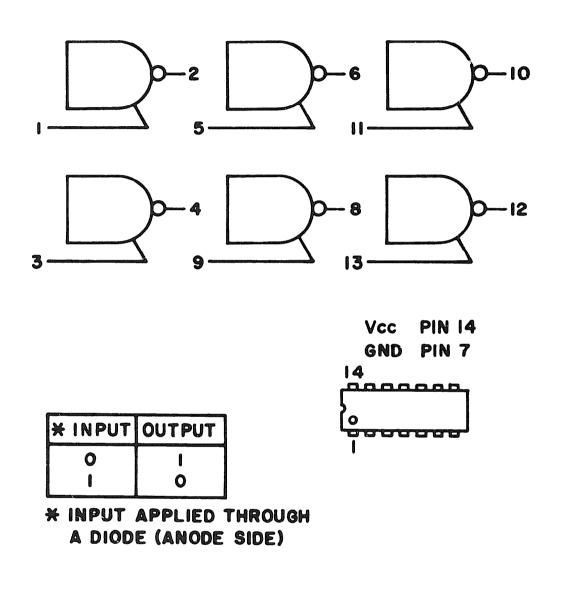


Figure 4-16. - Logic Diagram Inverter

CHAPTER 5

PREVENTIVE MAINTENANCE

I - PREVENTIVE MAINTENANCE PROCEDURES

5-1. GENERAL. - Extensive preventive maintenance is not required for the KY-681/GGC, since there are no moving parts or blowers which require periodic servicing. Suggested preventive maintenance procedures are presented in the following paragraphs.

5-2. PROCEDURES. - There are no special tools or equipment required for these procedures.

a. <u>Weekly</u>. - The following procedures should be performed weekly unless otherwise directed by station procedures.

(1) <u>Cleaning</u>- Clean equipment by removing dust and other foreign matter with a dry cloth or dust brush.

(2) <u>Power Upply</u>. - Measure the ± 3 VDC and -12 VDC power to insure a tolerance no gr ± 1 than ± 1 VDC.

5-3. REPLACEMENT OF MINOR PARTS. - There are no parts in the minor parts category. Therefore, there is no replacement procedure.

II - OPERATIONAL TEST AND OPTIMUM PEREORMANCE

5-4. OPERATIONAL TESTS. - Operational tests consist of entering the various sequences which are programmed and checking that a pulse is received when the sequences are recognized. See paragraph 2-10 for details of the output pulse. Other types of tests may be used to insure correct operation of the KY-681/GGC. Since the KY-681/GGC will be utilized as a component of a large system, tests may be designed which will not only insure proper operation of the KY-681/GGC but other components of the system as well. These system tests have to be designed by the system design group, since there are various ways the KY-681/GGC is utilized.

5-5. OPTIMUM PERFORMANCE CRITERIA. - Table 5-1 references the waveform data that shall be present at each test point for optimum performance of the KY-681/GGC. This table lists the circuit card assembly by reference.

a. <u>Waveforms</u>. - The waveforms are shown on the figures referenced in Table 5-1 labeled by assembly reference designation and test point. Horizontal (T/CM) and vertical (V/CM) oscilloscope settings with applicable notes are shown adjacent to each waveform.

b. <u>Test Set-up</u>. - A Tektronix 531 or equivalent oscilloscope is recommended for these tests. The oscilloscope ground terminal is connected to the GND terminal of the unit. The oscilloscope probe is clipped to the card test points, which are plated-through holes.

c. <u>Logic Levels</u>. - The logic levels shown on the waveforms are defined as follows:

Logic Level	Voltage Range
"1"	+3.0 to +5.6 VDC
'' 0''	0.0 to +0.6 VDC

Circuit Card Assembly	Test Point	Waveform Fig. Ref.
A1, A2, A3, A4	TP1 TP2 TP3	4-1 4-1 4- 1
A5	TP1 TP2 TP3	4-3 4-3 4-3
A10 through A19	TP1	4-4

Table 5-1. -Optimum Performance Criteria

CHAPTER 6

CORRECTIVE MAINTENANCE

I- GENERAL

6-1. CORRECTIVE MAINTENANCE. - Corrective maintenance consists of the repair, or replacement, of damaged or unserviceable components necessary to return the equipment to operational status.

6-2. RECOMMENDED TEST EQUIPMENT. - Table 6-1 lists equipment recommended for maintenance of the KY-681/GGC.

Oscilloscope, Tektronix 531, with type B preamplifier, or equivalent

VOM, Simpson 260 or equivalent

Table 6-1. Recommended Test Equipment

6-3. PROCEDURES. - Corrective maintenance procedures are described in the following paragraphs.

<u>a.-</u> <u>Circuit Card Assembly Substitution</u>. - Substitution of circuit card assemblies can frequently expedite the return of equipment to operational status. Circuit card assemblies can be replaced by any other card having the same part number except for Register/Program Cards ON150444. Substitution of these cards is possible only if they have been programmed identically. Each assembly is keyed so that only the correct circuit card assembly for a particular location can be inserted in the card position. Table 1-3 indicates the circuit card assemblies and their applicable location.

<u>Note</u>: - It is not necessary to remove power from the KY-681/GGC when extracting or inserting circuit card assemblies.

<u>b.</u> <u>Circuit Tracing</u>. - The following types of equipment drawings are supplied in the manual to support corrective maintenance procedures: system block diagram, circuit card assembly logic diagrams, the motherboard and connector wiring diagrams, and the circuit card assembly w 'ring diagrams.

(1) <u>System Block Diagram</u>. - (See Figure 1-3.*) The system block diagram shows the signal flow between the elements of the unit. The alpha/numerics are the connector pin numbers of the individual circuit card assemblies. Connections between the Register/Program cards and the individual output card are noted on the individual circuit card assemblies.

(2) <u>Circuit Card Assembly Logic Diagrams.</u> - (See Figures 4-1,* 4-2,* 4-3*and 4-4*.) There are four types of circuit card assemblies in the KY-681/GGC. Three of the card assembly types have multiple usage. Connector pin numbers of

* These drawings appear in the Appendix

the "TO" terminal connection are not shown in Figures 4-l*and 4-3,* since these terminations change with card location. Figure 1-3* should be consulted for these terminations.

(3) <u>Motherboard and Connector Wiring Diagrams</u>. - (See Figure 6-1*and 6-2*.) These wiring diagrams indicate all connections between circuit card assembly connectors (XAI through XA19) and the input/output connectors JI through J4.

(4) <u>Circuit Card Assembly Wiring Diagrams</u>. - These wiring diagrams, Figures 6-3* through 6-6,* show the interconnection between the components located on each of the printed wiring boards. The track side of the printed wiring card is shown in one view and the component side of board is shown in a separate view.

c. <u>Extender Board Use</u>. - To test a circuit card assembly in the equipment, use extender card, ON150446 supplied with each unit. The extender board is inserted into the applicable con&&or and the circuit card assembly to be tested is inserted into the extender board. This provides access to all terminals of the circuit card assembly.

d. <u>Module Pin Numbering</u>. - Individual module pin layouts are shown in Figure 4-5 through 4-16. The pins are numbered clockwise, looking at the track side of the cards, with pin one identified by an index mark near the pin. Emitters of transistors are similarly identified. The shift register module on the input circuit card (ON150438) is housed in an eight-pin TO-5 case with a tab identifying pin eight on the module and a corresponding index mark on the card.

e. <u>Circuit Card Assembly Repair</u>. - The modular construction of the circuit card assemblies facilitates repair when proper tools and repair techniques are used and normal precaution exercised.

(1) <u>Tools</u>. - Recommended tools are a vise, a pencil-type soldering iron with a capacity of 25 to 40 watts, small side-cutters, small needlenose pliers, and a desoldering tool.

(2) <u>Procedure</u>. -

(a) For dual in-line modules the leads should be cut on the module side of the circuit card assembly as close to the module as possible.

<u>CAUTION</u>: - Do not overheat solder joints; circuit cards may be damaged. Do not use acid core solder. Do not use an AC soldering iron without an isolating transformer in the line.

The individual pins should then be removed by heating the joint and pulling the pin from the module side of the card. The soldering iron should be placed on the track side of the card. Since module holes are plated-through the heat will be transmitted through the hole.

(b) For transistors and TO-5 type modules the leads should be cut on the track side of the circuit card assembly. The soldering iron should be

* These drawings appear in the Appendix

placed on the track side and the lead removed from the same side. These lead holes are not plated-through holes. The leads are soldered to pads adjacent to the holes.

(c) For capacitors, diodes and resistors the lead should be cut on the component side of the circuit card assembly. The lead should be removed by pulling the lead from the track side of the card. The soldering iron should be placed on the track side of the card.

(d) Replace components by bending and cutting the leads to fit Care should be taken to insure that the orientation of the component is correct.

II - TROUBLE ANALYSIS

6-4. ORGANIZATION OF TROUBLE ANALYSIS PROCEDURES. - The first step in trouble analyzing the KY-681/GGC is to localize the malfunction to the defective circuit card assembly. The second step is to locate the faulty component on the circuit card assembly. Refer to procedures described in Paragraph 5-5 and Table 5-1. Once the malfunctioning circuit card assembly has been isolated, it is recommended that it be **replaced** with a serviceable spare and isolation and replacement of faulty components be accomplished at a circuit card assembly repair facility.

6-5. TROUBLE ANALYSIS TABLE. - Trouble analysis procedures for the KY-681/GGC are presented in Table 6-2. Check the circuit card assemblies associated with any line for which a fault exists to insure that they are all seated firmly in their chassis connectors. Before replacing a suspected circuit card assembly, remove the suspected circuit card assembly and re-insert it to see if the trouble is caused by a bad contact between the circuit card assembly and motherboard connector.

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Symptoms	Probable Causes	Action
1. No sequences recognized.	a. Clock Failures.	Replace circuit card A5.
	b. Shift register stage failure.	Beginning with circuit card A10, check test point 1 on Register/Pro- gram cards (A10 - A19) for presence of signals while data is coming in on one or more lines. Replace any defective cards (A10 - A19).
 None of the sequences recognized on one line only. 	MOS register or associated circuitry failure.	Replace Input Circuit card (A1 - A4) associ- ated with that line.
3. One sequence not recognized.	a. Programming in error.	Check programming of Register/Program cards (A10 - A19) for that sequence.
	b. Output driver failure.	Replace output circuit card (A6 - A9) associated with that line.
 Short sequences recog- nized, but not long sequences. 	Shift register stage failure.	See 1 b.

Table 6-2. -KY-681/GGC Trouble Analysis

CHAPTER 7 IDENTIFICATION TABLE OF PARTS

AND

ILLUSTRATED PARTS BREAKDOWN

EF.	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL TYPE	EQUI QU	PMENT	REPAIR IES PER (6)	PART	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE END ITE	
NBER []	(2)	(3)	DAVOL VED (4)	NUMBER (5)	ARMY	AF	AGENCY	NAVY	OTHER	ன	(8)
g. 1.	DECODER. command signal, KY-681/GGC: aluminum chassis; steel front panel; gray enamel finished front panel; 14-1/2 in. Ig by 19 in. wide by 5-7/32 in. high overall dimensions; input and output signal interfaces per low level require- ments of MIL-STD-188B; requires st volts DC and -12 volts DC power sources; accessory slides provided; NSA drawing \$N15\$423	Unit detects up to twelve (12) sequences of up toten (10) characters each on four (4) inde- pendent data lines. Detection of a sequence results in an output pulse one (1) unit interval long on the appropriate output line									1
A1	CIRCUIT CARD ASSEMBLY: epoxy glass board with printed wiring both sides; 7.40 in. wide by 3.75 in. high by 5.695 in. thick; principal com- ponents mounted on board are 8 capacitors, 12 resistors, 1 transistor, 1 zener diode and 16 integrated circuits; NSA part no. \$N15\$438	Provides storage and control functions for input data	A1, A2, A3 A4								4
IC1	CAPACITOR, fixed, ceramic dielectric(general purpose): 685 pf. 250 WVDC; Spec. MIL-C-11915D	Differentiation of clock pulse	A1C1, A2C1, A3C1, A4C1	C K# 5BX681K							4
IC2	CAPACITOR, fixed, ceramic dielectric: \$.\$1 mfd, 5\$ WVDC; \$.32\$ in. dia. by \$.15 in. thick disc; NSA drawing \$N15\$471; Centralab type HK 1\$3	Bypass for -12 VDC supply voltage	A1C2, A1C4, A1C7, A2C2, A2C4, A2C7, A3C2, A3C4, A3C7, A4C2, A4C4, A4C7, A5C2, A5C4, A6C2, A7C2, A8C2, A5C4, A6C2, A7C2, A8C2, A9C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2, A1\$C2,								28
C3	CAPACITOR, fixed, electrolytic: 1 mfd, 35 VDC; tanta'um electrolytic; \$.286 in. 1g, by \$.135 in. dia; formerly type CB13BF1\$5M per MIL-C- 26655B; N8A drawing \$N15\$475; Sprague type 15\$D1\$5X\$\$\$35A2	Same as A1C2	A1C3, A1C6, A1C8, A2C3, A2C6, A2C8, A3C3, A3C6, A3C8, A4C3, A4C6, A4C8, A5C1, A5C3, A6C1, A7C1, A8C1, A9C1, A1\$C1, A1C1, A12C1, A13C1, A14C1, A15C1, A16C1, A17C1, A18C1, A19C1								28
C4	CAPACITOR, same as A1C2	Bypass for +5 VDC supply voltage									
C5	CAPACITOR, fixed, ceramic dielectric (general purpose): 22\$ pf, 2\$\$\$ WVDC; Spec. MIL-C-11\$15D	Pulse coupling	A1C5, A2C5, A3C5, A4C5	CKØ5BX221K							4
C6	CAPACITOR, same as A1C3	Same as A1C4									

EF. YM. OR ART JMBER	NAME OF PARTS AND DESCRIPTION	NAME OF PARTS AND DESCRIPTION FUNCTION NUT INV.	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR MIL TYPE NUMBER			REPAIL IES PER (6)		FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE END ITEI	
1)	(2)	(3)	(4)	(5)	ARKY	AF	AGENCY	NAVY	OTHER	ெ	(8)
IC7	CAPACITOR, same as A1C2	Bypass for -6 VDC supply voltage									
1C8	CAPACITOR. same as A1C3	Same as A1C7			[ļ	ļ			
1MD1	INTEGRATED CIRCUIT, shift register- dual 32 bit register, serial input and output; \$.37\$ in. dis. by \$.185 in. high, with 8 leads \$.5\$\$ in. min. length; NSA drawing \$N15\$458; National Semiconductor Corp. type MM5\$5	Input data storage	A1MD1, A2MD1, A3MD1, A4MD1								4
4D2	INTEGRATED CIRCUIT, logic gate: logical "1", 3.5v min; logical "0", 5.6v max, 14 pin dual-in- line packaga 5.75 in. long by 5.25 wide by 5.12 bigh: leads project 5.15 in: N&A drawing \$N155464; Signetics Corporation type SF387A	Quadruple 2-input NAND gaie	A1MD2, A1MD4, A2MD2, A2MD4, A3MD2, A3MD4, A4MD2, A4MD4, A5MD6, A6MD14, A7MD14, A6MD14, A9MD14, A19MD7, A11MD7, A12MD7, A13MD7, A14MD7, A18MD7, A19MD7								23
MDS	INTEGRATED CBCUIT. logic gate: logical "1", 3.4v min; logical "0", 5.35v max; 14 pin dual-in- line package, 5.75 in. 1g by 5.25 in. wd by 5.12 in. high; loads project 5.15 in; NRA drawing \$N155466; Signetics Corporation type N8481A	Quadruple 2-input NAND gate for "collector logic" functions	A1MD3, A2MD3, A3MD3, A4MD3								4
1D4	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
1D5	INTEGRATED CERCUIT, flip flop: dual "J-K" flip flop with common clock and reset inputs; logical "1", 3.8 w min; logical "0", 5.6 w max; 14 pin dual-in-line package, 5.75 in. ig by 5.25 in. wd by 5.12 in. high; lends project 5.15 in: NRA drawing \$N155459; Signetics Corporation type SF331A.	Synchronization and counting	A1MD5, A1MD6, A1MD7, A1MD6, A1MD1, A1MD12, A1MD13, A1MD14, A1MD15, A2MD5, A2MD6, A2MD7, A2MD6, A2MD14, A2MD12, A2MD3, A2MD14, A2MD12, A2MD3, A2MD14, A2MD15, A3MD6, A3MD14, A3MD12, A3MD6, A3MD14, A3MD15, A3MD3, A3MD14, A3MD15, A4MD5, A4MD6, A4MD7, A4MD5, A4MD6, A4MD7, A4MD5, A4MD6, A4MD12, A4MD13, A4MD14, A4MD15, A5MD5, A5MD7, A5MD4, A5MD5, A5MD7, A5MD6, A5MD5, A5MD7, A5MD6, A12MD1, A12MD3, A13MD11, A13MD3, A14MD1, A13MD3, A15MD3, A15MD3, A16MD1, A16MD2, A17MD1, A17MD3,								64



ON TABLE OF PARTS FOR DECODER, COMMAN	D SIGNAL KY-681/GGC		COMMUNIC	TIONS	TECN	NOLOG	Y, INC).	DAAB#3-69-C-#375			
NAME C? PARTS AND DESCRIPTION	PUNCTION	ALL SYMBOLS AND PART HUMBERS BEVIL/VED	jan Or Hil Type			REPAIL LES PER (6)			FEDERAL STOCK RNBER	TOTAL NUMBER PARTS PER END ITEM		
	(3)	(1) (1)	NUMBER (5)	ARET	AF	AGENCY	RAVT	OTHER	თ	Ø		
		A18101, A18103, A19101, A19123										
FEGRATED CECUTT, same as A1MD5	Same as A1M05											
REGRATED CERCUIT, same as A1MD5	Same as A1MD5							1				
FEGRATEL OFCUIT, same at A1MD5	dame as A1MD5											
PEGRATED CHRCUIT , operational amplifier: a circuit gain = 45,000; cutput impadance 30 na; 14 pin dual-in-line package, 5,75 in. lg by 15 in. wd. by 5,12 in high: leads project 5,15 in; A drawing \$N15\$469; Motorola type MC1437L	Data and clock input amplifier	Allers, Achers, Ashers, Almes, Achers, Asheri, Ashers, Achers, Asheri, Ashers, Asheri, Asheri, Ashers, Athers, Asheri, Athers, Asheri, Asheri, Asher, Asheri, Asheri, Asher, Asheri, Asheri, Asher, Asheri, Asheri, Asher, Asheri, Asheri, Asher, Asheri, Asheri, Asher, Asheri, Asheri, Asheri, Asheri, Asheri, Asheri,				and the second				28		
TEGRATED CIRCUIT, logio gate: logical "1", iv mis; logical "9", 5 4v max: 14 pin dual-in- e package, 5.75 in. lg by 5.25 in. wd, by 5.12 high: leade project 5.15 in; NSA drawing 155462; Signetics Corporation type SP377A	Triple 3-input NAND gate	A130019, A230019, A310019, A410029								4		
FEGRATED CIRCUIT, same as A1MD5	Same as A1MD5											
EGRATED CIRCUIT, same as A1MD5	Same as A1MD5											
EGRATED CECUIT, same as A1MD5	Same as A1MD5											
TEGRATED CIRCUIT, same as A1MD5	Same as A1MD5											
EGRATED CECUIT, same as A1MD5	Same as AlMD6									* 4000		
EGRATED CERCUIT. logic gate: logical "1", v min; logical "0", \$.35v mar; 14 pin dual-in- e package, \$.75 in. 1g by \$.25 in. wh dby \$.12 high; leads project \$.15 in; NAA drawing 15\$465; Signetics Corporation type N849\$A	Quadruple 2-input NAND gate. high input impedance	A1MD16, A2MD15, A3MD16, A4MD15								4		
ANSETCE: PNP silicon transistor: 30v lector to emitter: injection molded plastic kage, \$.195 in. dis. (flatted) by \$.185 in high, da \$.50 in. long; NSA drawing \$N15\$457; lorola type 2N4226	Shift register clock driver	A1Q1, A2Q1, A3Q1, A4Q1								4		
lector to a knge, §. 1 da §. 50 in	mitter; injection molded plastic 99 in. dia. (flatted) by \$.185 in high, . long; NSA drawing \$N15\$457;	miller; injection inolded plastic 99 in. dia. (Jinted) by \$.185 in high. . long; N&A drawing \$N155457;	militer; injection i.olded plastic 99 in. dia. (Latted) by 9.185 in high, . log; NBA drawing 90159457;	militer: injection included plastic 99 in. dia. (flatted) by 9.185 in high, . long: NRA drawing fN155457;	multier: injection included plassic 99 in. dia. (flatted) by 9.185 in high, . long: NRA drawing SN155457;	militer: injection included plastic 99 in. dia. (flatted) by \$.185 in high, . long: NRA drawing \$N155457;	militer: injection i.olded plastic 99 in. dia. (latted) by \$, 185 in high, . long: NBA drawing \$N15\$457;	militer; injection i.olded plastic 99 in. dia. (Latted) by 9.185 in high, 1.0eg; NBA drawing 90159457;	militar; injection 1.0didal plastic 99 in. dia. (Latted) by 9.185 in high, 1.0eg; NRA drawing M155457;	multier: injection i.olded plastic 99 in. dia. (Latted) by 9.185 in high, . log; NBA drawing 90159457;		

FORM 14735 REV MAR 69 (Superades J4736 - 28 43 shich is obesiste)

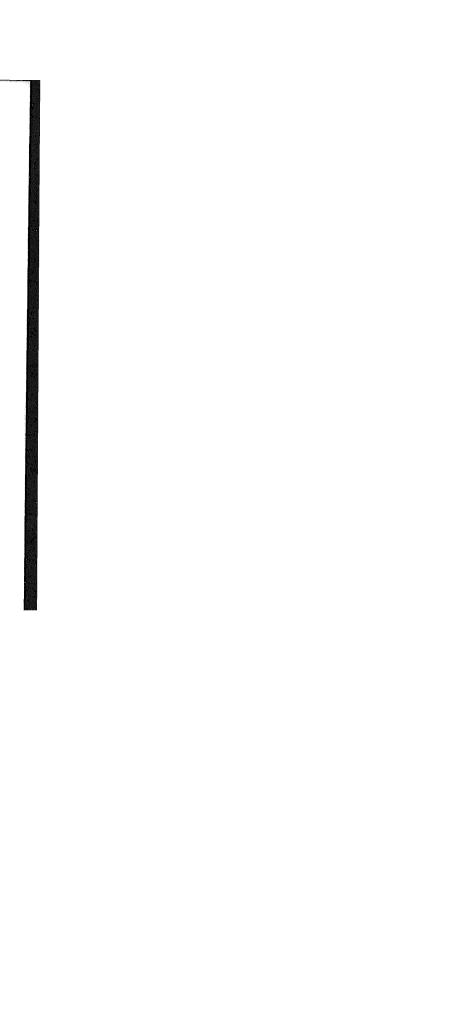
FION TA	BLE OF PARTS FOR DECODER, COMMANE	O SIGNAL KY-681/GGC		COMMUNICA	TIONS	TECK	NOLOG	Y, IN	c.	DAAB#3-69-C-#3	75
	HAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL TYPE			REPAB IES PER (6)			FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
	(2)	(3)	INVOLVED (4)	NUMBER (5)	ARMY	AF	AGENCY	HAVT	OTHER	თ	(8)
RESIST 3 <i>600</i> of	OR, fixed, composition (insulated): ms 15%, 1/4 wait; Specification MIL-R-11	Discharge path for clock differentiation circuit	A1R1, A2R1, A3R1, A4R1	RCØ7G F3Ø2J							4
RES 151 1 <i>54</i> 5 ol	CR, fixed. composition (insulated): ms ±5%, 1/4 watt; Specification MIL-R-11	Collector load resistor for shift register clock driver	A1R2, A2R2, A3R2, A4R2, A5R4, A5~5	RCØ7GF1Ø2J							6
RE8181 47 ohm	CR, fixed, composition (insulated): s ±5%, 1/4 watt; Specification MIL-B-11	Emitter bias resistor for shift register clock driver	A1R3, A2 [°] .3, A3R3, A4R3	RCØ7GF47ØJ							4
RESEI 18, ØØØ	CR, fixed, composition (insulated): ohms ±5%, 1/4 wait; Specification MIL-R-11	Collector load resistor for "collector logic" gates	A1R4, A2R4, A3R4, A4R4	RCØ7GF183J							4
RE8151 75∯∮ ol	OR, fixed, composition (insulated): nms ±5%, 1/4 wait; Specification MIL-R-11	Collector resistor for shift register output	A1R5, A2R5, A3R5, A4R5	RCØ7GF752J	ļ						4
RESET 8299 ol	OR, fixed, composition (insulated): ims ±5%, 1/4 watt; Specification MIL-R-11	Base current limiting resistor for shift register clock driver	A1R6, A2R6, A3R6, A4R6	RC∮7GF822J							4
RESET	OR, fixed, composition (insulated): ns ±5%, 1/2 wait; Specification MIL-R-11	Voltage dropping to provide +5 VDC logic power supply	A1R7, A2R7, A3R7, A4R7	RC2ØGF2R2J							4
RES191 820 oh	CR, fixed, composition (insulated): ns ±5%, 1/4 wait; Specification MIL-R-11	Logic gate input protection	A1R8, A2R8, A3R8, A4R8	RCØ7GF821J							4
	OR, fixed, composition (insulated): øohms ±5%, 1/4 watt; Specification -11	Amplifier feedback	A1R9, A1R1Ø, A2R9, A2R1Ø, A3R9, A3R1Ø, A4R9, A4R1Ø	RC\$7GF754J							8
RESIST	OR, same as A1R9	Same as A1R9									
	COR, fixed, composition (insulated): ohms ±5%, 1/4 wait; Specification -11	Input circuit build-out resistor	A1R11, A1R12, A2R11, A2R12, A3R11, A3R12, A4R11, A4R12	RC\$7GF683J							8
REAR	COR, same as A1R11	Same as A1R11						1			
RESIST 6,800 MIL-R	'Ok, fixed, composition (insulated): phms ±5%, 1/4 watt; Specification -11	Part of clock circuit differentiator	A1R13, A2R13, A3R13, A4R13	RCØ7GF682J							19
zener ø. 1ø7	ONDUCTOR DEVICE, diode: 5.1 volt±10% Hode: 1 watt power rating; \$.2%6 in. ig by in. dia; 1.1 in. long leads; N&A drawing ?%; Motorola type 1N4733.	Voltage regulation for +5 VDC logic power supply	A1VR1, A2VR1, A3VR1, A4VR1, A5VR1, A6VR1, A7VR1, A8VR1, A9VR1, A1ØVR1, A11VR1, A12VR1, A13VR1, A14VR1, A15VR1, A16VR1, A17VR1, A18VR1, A19VR1								
ASSEM	BLY, CIRCUIT CARD, same as Al	Same as A1						1			

FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN Ofr Mil	EQU	PHENT	* REPAI	PART	KIT		
	INVOLVED	TYPE			(6)	SERVIC	28	FEDERAL STJCK NUMBER	TO NUM PART END
(3)	(4)	(5)	ARMY	AF	AGENCY	HAVY	OTHER	Ø	(0)
Same as A1C2									
Same as A1C5									
Same as A1C4									
Same as A1C7									1
Same as A1C?									
Same as A1MD1									
Same as A1MD2									
Same as A1MD3									
Same as A1MD2									
Same as A1MD5									
Same as A1MD5		1							1
Same as A1MD5									
Same as A1MD8									
Same as A1MD9									
Same as A1MD19									
Same as A1MD5									
Same as A1MD5									
Same as A1MD5									
Same as A1MD5									1
Same as A1MD5									
Same as A1MD16									
	Same as A1C7 Same as A1C7 Same as A1MD1 Same as A1MD2 Same as A1MD3 Same as A1MD5 Same as A1MD5 Same as A1MD5 Same as A1MD9 Same as A1MD5 Same as A1MD5 Same as A1MD5 Same as A1MD5 Same as A1MD5 Same as A1MD5 Same as A1MD5	Bame as A1C4 Bame as A1C5 Bame as A1C4 Bame as A1C7 Bame as A1C7 Bame as A1C7 Bame as A1MD1 Bame as A1MD2 Bame as A1MD3 Bame as A1MD5 Bame as A1MD5	Same as A1C4 Same as A1C5 Same as A1C7 Same as A1C7 Same as A1C7 Same as A1MD1 Same as A1MD2 Same as A1MD2 Same as A1MD3 Same as A1MD5 Same as A1MD5	Same as A1C4 Same as A1C5 Same as A1C7 Same as A1C7 Same as A1C7 Same as A1MD1 Same as A1MD2 Same as A1MD2 Same as A1MD3 Same as A1MD5 Same as A1MD5	Seme as A1C4 Bame as A1C5 Same as A1C7 Same as A1C7 Same as A1MD1 Same as A1MD2 Same as A1MD2 Same as A1MD3 Same as A1MD5 Same as A1MD5	Same as A1C4 Same as A1C5 Same as A1C4 Same as A1C7 Same as A1C7 Same as A1C7 Same as A1MD1 Same as A1MD2 Same as A1MD2 Same as A1MD5 Same as A1MD6 Same as A1MD5 Same as A1MD5	Bame as A1C4 Bame as A1C5 Bame as A1C4 Bame as A1C7 Bame as A1C7 Bame as A1C7 Same as A1C7 Same as A1MD1 Bame as A1MD2 Bame as A1MD2 Bame as A1MD2 Bame as A1MD5 Bame as A1MD5	Bame as A1C4 Bame as A1C5 Bame as A1C4 Bame as A1C7 Bame as A1C7 Bame as A1C7 Bame as A1MD1 Bame as A1MD2 Bame as A1MD2 Bame as A1MD3 Bame as A1MD5 Bame as A1MD5	Same as A1C4 Same as A1C5 Same as A1C4 Same as A1C7 Same as A1MD1 Same as A1MD2 Same as A1MD5 Same as A1MD6 Same as

TOTAL KUMBER ARTS PER END ITEN (8)

	ATION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KY-681/GGC		COMMUNIC	ATIONE	TECH	NOLO	IY, INC	3.	DAAB#3-69-C-#375		
REF. SYM. OR PART NUMBER	NAME OF PARTS AND DESCRIPTION	Punction	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR MIL TYPE	EQU Q	IPNENT UANTIT	REPAD IES PER (6)	PART SERV:C	KIT X	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE END ITE	
(1)	(2)	(3)		NUMBER (5)	ARMY	AF	AGENCY	NAVY	OTHER		(7)	
A2Q1	TRANSETOR, same as A1Q1	Same as A1Q1					i i					
A2R1	RESETCR, same as A1R1	Same as AlR1										
A2R2	RESETCR, same as A1R2	Same as A1R2		}								
A2R3	RESISTOR, same as A1R3	Same as A1R3					ļ					
A2R4	RESISTOR, same as A1R4	Same as A1B4		1								
A2R5	RESETCR, same as A1R5	Same as A1R5				1		1			1	
A 2 R 6		Same as AlBS						1				
	RESETOR, same as A1R6											
A2R7	RESITOR, same as A1R?	Same as A1R7				1					1	
A 2 R 8	RESISTOR, same as A1RS	Same as A1R8										
A2R9	RESISTOR, same as A1R9	Same as A1R9					1					
A2R10	RESISTOR, same as A1R9	Same as A1R9 Same as A1R11		Í	1						1	
A2R11	RESISTOR, same as AIRII	Same as A1R11										
A2R12	RESISTOR, same as A1R11 RESISTOR, same as A1R13	Same as A1R13										
A2R13 A2VR1	SEMICONDUCTOR DEVICE, DIODE, same as A1VR1	Same as AlVR1										
A3	ASSEMBLY, CIRCUIT CARD, same as A1	Same as Al										
A3C1	CAPACITOR, same as A1C1	Same as A1C1										
A3C2	CAPACITOR, same as A1C2	Same as A1C2										
A3C3	CAPACITOR, same as A1C3	Same as AIC2				ł						
A3C4	CAPACITOR, same as A1C1	Same as A1C4										
A3C5	CAPACITOR, same as A1C5	Same as A1C5										
A3C6	CAPACITOR, same as A1C3	Same as A1C4										
	CAPACITOR, same as A1C2	Same as A1C7										
A3C7	CAPACITOR, same as A1C3	Same as A1C7									1	
A3C8	INTEGRATED CIRCUIT, same as A1MD1	Same as A1MD1										
A3MD1	MILURAILU CIRCUII, BAIIC ES AIMUI											

FORM J4735 RI



REF.	TION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KI-081/000	Ar.t.	COMMUNIC.	1			un e a serie de la serie	ine footschemene	DAAB#3-69-C-#3	75
SYM. OR PART NUMBER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL Symbols And Part Nurbers Involved	JAN OR MIL TYPE	2QU QI	UANTIT	REPAIR LES PER (5)	SERVIC	KIT Z	FEDERAL STOCK NUMBER	P
(1)	<u> </u>		(0)	(5)	ARMY	AF	AGENCY	HAVY	OTHER	0	Ľ
A3MD2	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									Г
A3MD3	INTEGRATED CIRCUIT, same as A1MD3	Same as A1MD3									
A3MD4	INTEGRATED CIRCUIT, same as A1MD3	Same as A1MD2				l					
A3MD5	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A3MD6	INTEGRATED CIRCUIT, same as A1MD6	Same as A1MD5									
A3MD7	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A3MD8	INTEGRATED CIRCUIT. same as A1MD8	Same as A1MD8									
A3MD9	INTEGRATED CIRCUIT, same as A1MD9	Same as A1MD9									
A3MD10	INTEGRATED CIRCUIT, same as A1MD15	Same as A1MD19									
A3MD11	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A3MD12	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5								1	
A3MD13	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A3MD14	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A3MD15	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A3MD16	INTEGRATED CIRCUIT, same as A1MD16	Same as A1MD16									
A3Q1	TRANSISTOR, same as A1Q1	Same as A1Q1									
A3R1	RESETOR, same as A1R1	Same as A1R1									
A3R2	RESISTOR, same as A1R3	Same as A1R2									
A3R3	RESETOR, same as A1R3	Same as A1R3									
A3R4	RESETOR, same as A1R4	Same as A1R4									
A3R5	RESETCR, same as A1R5	Same as A1R5									
A3R6	RESETCE, same as A1R5	Same as A1R6									
A3R7	RESISTOR, same as A1R7	Same as A1R7									l
A3R8	RESETOR, same as A1R8	Same as A1R8									

FORM J4720 RE



A. R RT	NAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL TYPE	EQU Qi	PMENT	REPAIS IES PER (6)	PART SERVIC	KIT E	FEDERAL STOCK NUMBER	TOTAL NURSER PARYS PI END ITE
BER	20	(3)	INVOLVED	MUMBER (5)	AREATY	AP	AGENCY	HAVY	OTHER		(6)
,]	RESISTOR, same as A1R9	õame as A1R9									
10	RESISTOR, same as A1R9	Same as A1R9									
1	RESISTOR, same as AIR11	Same as A1R11 Same as A1R11									
12	RESISTOR, same as A1R11 RESISTOR, same as A1R13	Same as A1R13									
13 R1	SEMICONDUCTOR DEVICE, DIODE, same as A1VR1	Same as AIVR1									
	ASSEMBLY CIRCUIT CARD, same as A1	Same as A1									
	CAPACITOR, same as A1C1	Same as A1C1									1
2	CAPACITOR, same as A1C2	Same as A1C2									
}	CAPACITOR, same as A1C3	Same as A1C2									
,	CAPACITOR, same as A1C1	Same as A1C4									
5	CAPACITOR, same as A1C5	Same as A1C5									
י ז	CAPACITOR, same as A1C3	Same as A1C4									
	CAPACITOR, same as A1C2	Same as A1C7									
,	CAPACITOR, same as A1C3	Same as A1C7						1			
3	INTEGRATED CIRCUIT, same as A1MD1	Same as A1MD1									
D1	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
D2	INTEGRATED CIRCUIT, same as A1MD3	Same as A1MD3									
D3	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
D4	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5			1						
D5	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5					1				
D6	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5								ļ	
D7	INTEGRATED CIRCUIT, same as A1MD8	Same as A1MD8							ļ		
D8	INTEGRATED CIRCUIT, same as A1MD9	Same as A1MD9									
D9	INTEGRATED CIRCUIT. same as A1MD10	Same as A1MD16									1

FORM J4735 1

M. R T ER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL TYPE	PE (KUT Ce	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE END ITS
	(2)	(3)	INVOLVED (4)	NUMBER (5)	ARMY	AF	AGENCY	HAVY	OTHER	<u>ത</u>	(6)
011 T	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
012	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									1
D13	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
D14	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
D15	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
D16	INTEGRATED CIRCUIT, same as A1MD16	Same as A1MD16									
	TRANSISTOR, same as A1Q1	Same as A1Q1									
	RESISTOR, same as A1R1	Same as A1R1									
	RESISTOR, same as A1R2	Same as A1R2									
	RESISTOR, same as A1R3	Same as A1R3									
	RESISTOR, same as A1R4	Same as A1R4									
	RESISTOR, same as A1R5	Same as A1R5									
	RESISTOR, same as A1R6	Same as A1R6									
	RESISTOR, same as A1R?	Same as A1R?					-				
	RESISTOR, same as A1R8	Same as A1R8			1						
	RESISTOR, same as A1R9	Same as A1R9									
	RESISTOR, same as A1R9	Same as A1R9									
	RESISTOR, same as A1R11	Same as A1R11									
	RESISTOR, same as A1R11	Same as A1R11									
	RESISTOR, same as A1R13	Same as A1R13							í I		
a	SEMICONDUCTOR DEVICE, DIODE, same as A1VR1	Same as A1VR1									
	CIRCUIT CARD ASSEMBLY: epoxy glass board with printed wiring both sides; 7.4% in. wd by 3.75 in. high by 5.864 in. thick; principal components mounted on board are 4 capacitors, 7 resistors, 1 zener diode, 1 crystal, and 16 integrated cir- cuits; NSA part number \$N15\$442	Generation of timing pulses and controls common to all input lines	A5								1

IDENTIFICA	TION TABLE OF PARTS FOR DECODER, COMMAND	SIGNAL KY-681/GGC		COMMUNICA	TIONS	TECH	NOLOO	IY, IN	c.	DAAB#3-69-C-#37	5
REF. SYM. O R PART	NAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYMBLES AND PART NUMBERS	jan Or Hil Type	EQU	PHENT	REPAIR IES PER (6)	PART SERVI	KIT Ce	FEDERAL STOCK NUMBER	TOTAL NUMBER PAR'IS PER END ITEM
NUMBER (1)	(3)	(3)	BIVOLVED (7)	15) (5)	ABMY	A7	AGENCY	HAVY	OTHER	(n	(7)
A 5 C 1	CAPACITOR, same as A1C3	Oscillator voltage input bypass									
A5C2	CAPACITOR, same as A1C2	Same as A5C1	1911 11 11 4 8 8 4 9 ¹⁰								
A 5 C 3	CAPACITOR, same as AIC3	Same as A1C4									
A5C4	CAPACITOR, same as AIC4	Same as AIC4									Deutine
A5MD1	INTEGRATED CIRCUIT, logic gate logical "I", 2.6v min; logical "0", 5.64v max; 14 pin dual-in- line puckage, 5.75 in. 1g by 5.25 in. web y 5.12 in. high: leads project 5.15 in: NSA drawing 5N155467; Eignetics Corporation type N3835A	Quadruple 2-input NAMD gate	A5MD1			nerve de la regione de la constante de la const					1
A5MD2	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A5MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A5MD4	INTEGRATED CIRCUIT. same as A1MD5	Same as A1MD5									
A5MD5	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A5MD6	INTEGRATED CIRCUTT, same as A1MD2	Same as A1MD2		Systematic Trans							
A5MD7	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
	INTEGRATED CIRCUIT. same as AIMD5	Same as A1MDč									
A 5 M D 9	INTEGRATED CIRCUIF, same as A1MD5	Same as A1MD5									1
A5MD10	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A5R1	RESISTOR, fixed, composition (insulated): 119 ohme ±5%, 1/4 watt; Spec. No. MIL-R-11	Dropping resistor for crystal oscillator voltage input	A5R1	RCØ7GF111J							1
A 5 R 2	RESISTOR, fixed, composition (insulated): 2555 ohms ±5%, 1/4 wait; Spec. No. Mil-R-11	Crystal drive current limiting resistor	A5R2	RC#1GF2#2J							1
A5R3	RESISTOR, fixed, composition (insulated) 2.7 ohms ±5%, 1/2 watt; Spec. No. MIL-R-11	Same as AIR?	A5R3	RC26GF2R7J							1
A5R4	RESETOR, same as A1R2	Same as A1R4									
A5R5	RESISTOR, same as A1R2	Same as A1R4									
A 5 R 6	RESISTOR, fizzd, composition (insulated): 25 ohms ±5%, 1/2 wait; Spec. No. MIL-R-11	Part of voltage divider to derive bias voltage for use with neutral input signals	A5R6	RC2ØCV2ØØJ							1

Torrandon 14736 F28 63 which is obsolete) FORM 14735 Al

	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PARY NUMBERS	JAN OR MIL TYPE	EQUI QU	PMENT	REPAIR IES PER (6)	PART	KIT Z	PEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE END ITE
Ľ	(2)		INVOLVED (4)	NUMBER (5)	ARHY	AF	AGENCY	HAVT	OTHER	<u>თ</u>	(8)
	RESISTOR, fixed, composition (insulated): 68 ohms ±5%, 1/2 watt; Spec. No. MIL-R-11	Same as A5R6	A5R7	RC2ØGF68ØJ							1
	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
	CRYSTAL UNIT, quartz: 8. 500 MH: ±5.502%; fundamental mode; 2 mw drive; 5.385 in. dia. by 5.356 in. high with 1 in. leads. NSA drawing \$N155473. Reeves-Hoffmann type RHA5A36 8.559 MC.	Source of timing signals	A5Y1								1
	ASSEMBLY, circuit card: spory glass board with printed wiring both sides; 7.45 ln. wd by 3.75 in. high by 5.664 in. thick; principal components mounted on board are 14 capacitors, 12 diodes, 37 resistors, 1 zener diode, and 18 integrated cir- cuits; NSA drawing number \$N15544#	Storage and output interface circuits for 12 sequences	A6, A7, A8, A9								4
	CAPACITOR, same as A1C3	Same as A1C4									
	CAPACITOR, same as A1C2	Same as A1C4									
	CAPACITOR, fixed, ceramic dielectric: \$, \$2 mfd, 5\$ WYDC; \$, 4\$\$ in. dia by \$, 15 in. thick disc; NBA drawing number \$N15\$472; Centralab type !!K2\$\$	Output rise time shaping capacitor	A6C3, A6C4, A6C5, A6C6, A6C7, A6C8, A6C9, A6C14, A6C11, A6C12, A6C3, A6C14, A6C14, A7C3, A7C4, A7C5, A7C16, A7C3, A7C4, A7C5, A7C15, A7C14, A7C12, A7C13, A7C14, A8C3, A8C4, A8C5, A8C6, A8C7, A8C8, A8C9, A8C14, A9C3, A9C4, A9C13, A8C14, A9C3, A9C4, A9C5, A9C6, A9C7, A9C8, A9C5, A9C6, A9C7, A9C8, A9C5, A9C14, A9C12, A9C13, A9C14	1							48
	CAPACITOR, same as A6C3	Same as A6C3									
	CAPACITOR, same as A6C3	Same as A6C3									
	CAPACITOR, same as A6C3	Same as A6C3									
	CAPACITOR, same as A6C3	Same as A6C3									
	CAPACITOR, same as A6C3	Same as A6C3									
	CAPACITOR, same as A6C3	Same as A6C3									

ION TABLE OF PARTS FOR DECODER, COMMAN	D SIGNAL KY-681/GGC		COMMUNICA	TIONS	TECH	NOLOG	Y. INC	3.	DAAB#3-69-C-#3	15
NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PAR? NUMPERS	JAN OR MIL TYPE	EQU Qi	DANTIT	REPAIN IES PER (6)	E PART	KIT E	FEDERAL STOCK MUMBER	TOTAL HUMBER PARTI: #ER END :: 2M
	(3)	INVOLVED (4)	MUMBER (5)	ARMY	AF	AGENCY	HAVY	OTHER	თ	(6)
CAPACITOR, same as A6C3	Same as A6C3									
CAPACITOR, same as A6C3	Same as A6C3						1			
CAPACITOR, same as A5C3	Same as A6C3					1				
CAPACITOR, same as A6C3	Same as A6C3									
CAPACITOR, same as A6C3	Same as A6C3									
SEMICONDUCTOR DEVICE, diods: 1.dv forward drog at 15 ma; 75v peak reverse voltage; Specification No. MIL-S-19599	Output clipping for neutral output	AGCR1, AGCR2, AGCR3, AGCR4, AGCR5, AGCR5, AGCR4, AGCR5, AGCR5, AGCR1, AGCR1, AGCR12, ATCR1, ATCR2, ATCR3, ATCR1, ATCR2, ATCR3, ATCR4, ATCR5, ATCR5, ATCR1, ATCR5, ATCR5, ATCR1, ATCR5, ATCR5, ATCR1, ATCR5, ASCR3, ASCR4, ASCR5, ASCR5, ASCR1, ASCR2, ASCR5, ASCR1, ASCR3, ASCR5, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, ASCR3, A	111914							1658
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE. same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									

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REF. SYM. O R PART	HALLE OF PARTS AND DESCRIPTION	PUNCTION	ALL Symdols And Part Numbers	JAN OR MIL TYPE	EQU Qi	PHENT	REPAI IES PER (9)	R PART		FEDERAL STOCK MURBER	TOTAL HUMBER PARTS PE
UMBER (1)	8	Ø	INVOLVED (4)	NUMBER (5)	ABRET	AT	AGENCY	HAVE	OTHER	0	
6CR10	SEMICONDUCTOR DEVICE, same as A&CR1	Same as A6CR1									
46CR11	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
6CR12	SEMICONDUCTOR DEVICE, same as A6CR1	Same as ASCR1									
A6MD1	INTEGRATED CERCUIT, logic gate: logical "1", 3. & min; logical "0", 5. & max; 14 pin dual-in- line package, 5. 75 in. ig by 5. 25 in. wd by 5. 12 in. high; leads project 5. 15 in; NBA drawing \$N15\$463; Signetics Corporation type SP38\$A	Quadruple 2-input NOR gate wired as dual R-S flip flop for output storage	AGMD1, AGMD2, AGMD3, AGMD4, AGMD5, AGMD5, AGMD7, AGMD5, AGMD6, ATMD1, ATMD2, ATMD3, ATMD4, ATMD2, ATMD5, ATMD7, ATMD6, ATMD6, ASMD1, ASMD2, AGMD5, ASMD1, ASMD5, ASMD5, ASMD7, ASMD5, ASMD5, ASMD7, ASMD5, ASMD5, ASMD7, ASMD5, ASMD5, ASMD7, ASMD6, ASMD5, ASMD7, ASMD6, ASMD5, ASMD7, ASMD6, ASMD5, ASMD7, ASMD6, ASMD5,								36
A6MD2	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1			1	ŀ					i
A6MD3	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									1
6MD4	INTEGRATED CIRCUIT, same as A6MD1	Quadruple 2-input NOR gate									
A6MD5	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4									
A6MD6	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4									
A6MD7	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
6MD8	INTEGRATED CIRCUIT. same as A6MD1	Same as A6MD1				[1			
6MD9	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1]					
6MD10	INTEGRATED CIRCUIT, same as A1MD9	Output interface driver									
A6MD11	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1\$									
A6MD12	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1\$									
46MD13	INTEGRATED CIRCUIT, logic gate: logical "1", 2.6v min; logical "0", 5.4v max; 14 pin dual-in- line package, 5.75 in. lg by 5.25 in. wd by 5.12 in. high; leads project 5.15 in; NSA drawing \$N15\$468 Fairchild type U6A983559X	Hez inverter	A6MD13, A6MD15, A7MD13, A7MD15, A8MD13, A8MD15, A9MD13, A9MD15								8

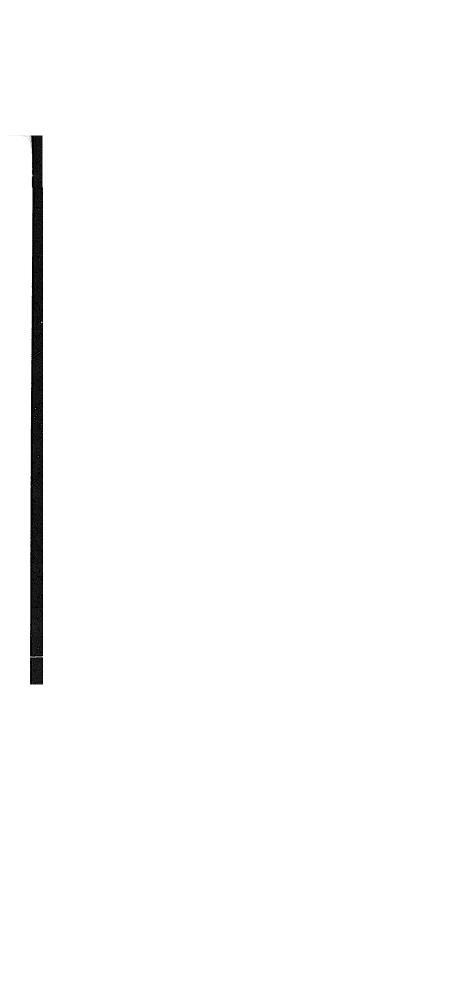
FORM J4736 REV MAR 69 (Supersodes J4736 FEB 63 which is obsalets)



NAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYMBOLS AND PART NUMBERS HVOLVED	COMMUNICA JAN OR MIL TYPE	EOU	IPMENT	REPAB LES PER (6)	KIT	PEDERAL STOCK NUMBER	TUT NURE PARTS END	
œ	(3)	(I)	NUMBER (5)	ARMY	AF	AGENCY	HAVT	OTHER		0
INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
INTEGRATED CIRCUIT, same as A6MD13	Same as A6MD13			1						
INTEGRATED CIRCUIT, same as A1MD9	Same as A6Mi)19					İ.				1
INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1ø				I I					
INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD19				ļ					
RESETOR, fixed, composition (insulated): 75∮ ohms ±5%, 1/4 watt; Spec. No. MIL-R-11	Output interface drive balance	AGR1, AGR2, AGR3, AGR4, AGR2, AGR1, AGR7, AGR8, AGR2, AGR15, AGR11, AGR12, ATR1, ATR2, ATR3, ATR4, ATR5, ATR8, ATR7, ATR6, ATR9, ATR15, ATR11, ATR12, ATR9, ATR15, ATR11, ATR12, ATR9, ATR15, ATR1, ATR12, ATR5, AGR2, AGR3, AGR4, AGR5, AGR15, AGR1, AGR12, AGR5, AGR15, AGR3, AGR4, AGR5, AGR15, AGR1, AGR12, AGR5, AGR15, AGR1, AGR21,	RC\$7GF751J							48
RESISTOR, same as A6R1	Same as A6R1					1				
RESISTOR, same as A6R1	Same as A6R1									
RESETOR, same as A6R1	Same as A6R1		i							
RESETOR, same as A6R1	Same as A6R1									
RESISTOR, same as A6R1	Same as A6R1									
RESETOR. same as A6R1	Same as A6R1									
RESETOR, same as A6R1	Same as A6R1									
RESETOR, same as A6R1	Same as A6R1									
RESETOR, same as A6R1	Same as A6R1				Ì					
RESETOR, same as A6R1	Same as A6R1									
RESETOR, same as A6R1	Same as A6R1									
RESETOR, fixed, composition (insulated): 3.3 ohms ±5%, 1/2 watt; Spec. NoMIL-R-11	Same as A1R7	A6R13, A7R13, A8R13, A9R13	RC2ØGF3R3J							4

Commentationenen EV MAR 63 (Supercodes Jerss FEE as FORM J4725 F

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STREED STREED OR QUANTITIES PER SERVICE HUBBER PATT NAME OF PARTS AND DESCRIPTION FUNCTION AND PARTS TUPE (6) FEDERAL PEDERAL PATT NUMBER TUPE (6) STOCK NUMBER END I	IDENTIFICA	ATION TABLE OF PARTS FOR DECODER, COMMAND	SIGNAL KY-681/GGC		COMMUNICA	TIONS	TECH	NOLOO	IY, INC.	DAAD\$3-69-C-\$3	75
CD CD CD MCD/L2 MCD/L2 MCD/L2 Ausron F aver ormans CO CO AGR14 REZEFTCER, fixed, composition (familised): 1866 dame at 5, 1/4 west; Spec. No. MIL-R-11 Limiting resistor for neutral origina ABEL14, ABEL1, ABEL1, ABEL1, ABEL14, ABEL1, ABEL1, ABEL1, ABEL14, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1, ABEL1	PART	NAME OF PARTS AND DESCRIPTION	PUNCTION	AND PART NUMBERS	TYPE			ES PER		FEDERAL STOCK NUMBER	TOTA NUMBE PARTS I END IT
AGR15 1566 chans a 55, 1/4 west; Bpec. No. MIT-B-11 outgets AGR25, AGR26,	NUMBER	60	(3)		NUMBER (5)	ARMIT	AF	AGENCY	RAVE OTH	™ (7)	(8)
AGR16 RESIBTOR, same as AGR15 Same as AGR15 Same as AGR14 Same as AGR14 Same as AGR14 Same as AGR14 Same as AGR15 Same as AGR14 Same as AGR15 Same as AGR14 Same as AGR15 Same as AGR15 Same as AGR15 Same as AGR15 Same as AGR14 Same as AGR15 Same as AGR14 Same as AGR15 Same as AGR1		155% ohms ±5%, 1/4 watt; Spec. No. MIL-R-11 RESETCR, fixed, composition (insulated):	outputs Limiting resistor for polar	A6R21, A6R22, A6R25, A6R20, A6R34, A6R37, A6R33, A6R34, A6R37, A7R31, A7R17, A7R16, A7R21, A7R17, A7R16, A7R31, A6R24, A7R35, A7R34, A7R34, A7R37, A8R14, A6R17, A8R18, A8R31, A6R22, A7R34, A8R34, A6R17, A8R18, A8R34, A6R27, A8R36, A8R34, A6R37, A8R37, A9R14, A6R17, A9R18, A9R34, A6R37, A9R34, A6R37, A9R14, A6R17, A9R18, A9R34, A6R37, A9R34, A6R37, A9R34, A6R37, A9R34, A6R37, A9R34, A6R37, A6R36, A9R34, A6R37, A6R36, A9R35, A6R34, A6R37, A9R36, A6R23, A6R34, A9R37, A6R36, A6R31, A6R37,							
A6R17 RESIBTOR, same as A6R14 Same 25 A0R14 A6R17 RESIBTOR, same as A6R14 Same 25 A0R14 A6R18 RESIBTOR, same as A6R14 Same as A6R14 A6R19 RESIBTOR, same as A6R15 Same as A6R15 A6R20 RESIBTOR, same as A6R15 Same as A6R15 A6R21 RESIBTOR, same as A6R14 Same as A6R14				A9R27, A9R28, A9R31,		1					
A6R18 RESISTOR, same as A6R14 Same as A6R14 A6R19 RESISTOR, same as A6R15 Same as A6R15 A6R20 RESISTOR, same as A6R15 Same as A6R15 A6R21 RESISTOR, same as A6R14 Same as A6R14	A6R16	RESISTOR, same as A6R15	Same as A6R15								
A6R19 RESISTOR, same as A6R15 Same as A6R15 A6R20 RESISTOR, same as A6R15 Same as A6R15 A6R21 RESISTOR, same as A6R14 Same as A6R14	A6R17	RESETOR, same as A6R14	Same as AdR14								
A6R20 RESIBTOR, same as A6R15 Same as A6R15 A6R21 RESIBTOR, same as A6R14 Same as A6R14	A6R18	RESISTOR, same as A6R14	Same as A6R14								
A6R21 RESISTOR, same as A6R14 Same as A6R14	A6R19	RESETOR, same as A6R15	Same as A6R15								
	A6R20	RESISTOR, same as A6R15	Same as A6R15								
A6R22 RESETCR, same as A6R14 Same as A6R14	A6R21	RESISTOR, same as A6R14	Same as A6R14					1			
	A6R22	RESETOR, same as A6R14	Same as A6R14								

FORM J4735 REV MAR 69 (Supercodes J4736 PEB 63 which is obsalete)

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OTAL MBER TS PER D ITEM (8)

IDENTIFICA	ATION TABLE OF PARTS FOR DECODER, COMMAN	D SIGNAL KY-681/GGC		COMMUNICA	TIONS	TECH	NOLOG	Y. INC	2.	DAAB\$3-69-C-\$3	15
REF. SYM. OF PART NUMBER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR NIL TYPE NUMBER	EQU QI	PMENT	REPAIR ES PER (6)	SERVIC	KIT E	FEDERAL STOCK NUMBER	TO NUM PARTI ENC
(I)	@	(3)	(4)	(5)	ARWY	A.9	AGENCY	BAVT	OTHER	(7)	<u> </u>
A6R23	RESISTOR, same as A6R15	Same as A6R15									
A6R24	RESISTOR, same as A6R15	Same as A6R15									
A6R25	RESETOR, same as A6R14	Same as A6R14									
A6R26	RESETOR, same as A6R14	Same as A6R14									
ARR27	RESISTOR, same as A6R15	Same as A6R15									
A6R28	RESISTOR, same as A6R15	Same as A6R15					1				
A6R29	RESISTOR, same as A6R14	Same as A6R14									
A6R30	RESETOR, same as A6R14	Same as A6R14									
A6R31	RESISTOR, same as A3R15	Same as A6R15									
A6R32	RESISTOR, same as A6R15	Same as A6R15									
A6R33	RESISTOR, same as A6R14	Same as A6R14									
A6R34	RESISTOR, same as A6R14	Same as A6R14									
A6R35	RESISTOR, same as A6R15	Same as A6R15									
A6R36	RESISTOR, same as A6R15	Same as A6R15									
A6R37	RESISTOR, same as A6R14	Same as A6R14									
A6VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
A7	CIRCUIT CARD ASSEMBLY, same as A6										
A7C1	CAPACITOR, same as A1C3	Same as A1C4									
A7C2	CAPACITOR, same as A1C2	Same as A1C4									
A7C3	CAPACITOR. same as A6C3	Same as A6C3									
A7C4	CAPACITOR, same as A6C3	Same as A6C3									
A7C5	CAPACITOR, same as A6C3	Same as A6C3									
A7C6	CAPACITOR, same as A6C3	Same as A6C3									
A7C7	CAPACITOR, same as A6C3	Same as A6C3									
			1	1	L						L

FORM J4735 REV MAR 69 (Supersedes J4736 FEB 63 which is obsalate)

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TOTAL NUMBER PARTS PER END ITEN (5)

7	1	7
/-	T	1

FORM 14735	REV MARA	9 (Supersedes	14714 888	41 which is a	healete

FICA	TION TABLE OF PARTS FOR DECODER, COMMAN	D SIGNAL KY-681/GGC		COMMUNICA	ATIONS	TECH	NOLOC	GY, IN	c.	66411424 100: DAAB\$2-69-C-\$37	5
ĒR	NAME OF PARTS AND DESCRIPTION	FUNCTION (3)	ALL SYNBORS ANC PART NUMBERS INVELVED	JAN OR MEL TYPE NUMBER (5)	UQ3 Q	L'ANTIE	REPAIL IES PER (6)	SERVIC	CE	FEDERAL STOCK NUMBER (7)	TOTAL HUMBER PARTS PER END ITEM (8)
	CAPACITOR. same as A6C3	Same 25 ASC3	¥		1	 					
	CAPACITOR, same as A6C3	Same as A6C3]					
)	CAPACITOR, same as A6C3	Same as A6C3									
ĺ	CAPACITOR, same as A6C3	Same as A6C3									
12	CAPACITOR, same as A6C3	Same as A6C3					1	1			
13	CAPACITOR, same as A6C3	Same as A6C3					Ì				
14	CAPACITOR, same as A6C3	Same as A6C3						1	1		
R1	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
R2	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
3	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1			[{				[
R 4	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1								1	
5	SEMICONDUCTOR DEVICE, same as A6CR1	Same as ASCR1									l
R6	SEMICONDUCTOR DEVICE, sound as A6CR1	Same as A6CR1									
R7	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1			1			1			
R8	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
R9	SEMICONDUCTOR DEVICE. same as A6CR1	Same as A6CR1								}	
R10	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
CR11	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1								1	
CR12	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A8CR1									
MD1	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
MD2	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
MD3	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
AD4	INTEGRATED CIRCUIT. same as A6MD1	Same as A6MD4			1						
MD5	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4						1			

	TION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KY-681/GGC		COMMUNIC	TIONS	TECH	NOLO	GY, IN	c.	Сонтилет но. DAAB#3-69-C-#3	75
REF SYM. OR PART NUMBER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS INVGLVED	JAN OR MIL TYPE NUMBER			REPAD IES PER (6)			FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE END ITE
(1)	(2)	(3)	(9	(5)	ARMY	AF	AGENCY	HAVY	OTHER	(7)	(5)
A7MD6	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4									
A7MD7	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
A7MD8	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
7MD9	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
7MD10	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1#									
7MD11	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD16									
7MD12	INTEGRATED CIRCUIT, same as A1 MD9	Same as A6MD19									
7MD13	INTEGRATED CIRCUIT, same as A6MD13	Same as A6MD13									
7MD14	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2			1		1				
7MD15	INTEGRATED CIRCUIT, same as A6MD13	Same as A6MD13									
7MD16	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD16									
7MD17	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1\$									
7MD18	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1\$									
7R1	RESETOR, same as A6R1	Same as A6R1									
7R2	RESISTOR, same as A6R1	Same as A6R1									
7R3	RESISTOR, same as A6R1	Same as A6R1		Í			-				
7R4	RESISTOR, same as A6R1	Same as A6R1		-							
7R5	RESETOR, same as A6R1	Same as A6R1									
7R6	RESISTOR, same as A6R1	Same as A6R1									
7R7	RESISTOR, same as A6R1	Same as A6R1									
7R8	RESISTOR, same as A6R1	Same as A6R1									
7R9	RESENTOR, same as A6R1	Same as A6R1									
7R10	RESISTOR, same as A6R1	Same as A6R1									
7R11	RESISTOR, same as A6R1	Same as A6R1									

FORM J4736 REV MAR 69 (Supercodes J4736 FEB 63 which is obsolate)

IDENTIFICA	TION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KY-681/GGC		COMMUNICA	TIONS	тесн	NOLOG	Y, INC.	DAAB#3-69-C-#3	⁷ 5
REF. SYM. OR PART NUMBER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS INVOLVED	jan Or Mil Type Number	EQU	IPMENT	REPAD LES PER (6)	PART KIT SERVICE	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
(l)	(2)	(3)	(4)	(5)	ARMY	AF	AGENCY	HAVE OTHER	<u>ത</u>	(8)
A7R12	RESISTOR, same as A6R1	Same as A6R1								
A7R13	RESISTOR, same as A6R13	Same as A1R7							1	
A7R14	RESISTOR, same as A6R14	Same as A6R14								
A7R15	RESISTOR, same as A6R15	Same as A6R15								
A7R16	RESISTOR, same as A6R15	Same as A6R15					1			1
A7R17	RESISTOR, same as A6R14	Same as A6R14								
A7R18	RESISTOR, same as A6R14	Same as A6R14								
A7R19	RESISTOR, same as A6R15	Same as A6R15								1
A7R20	RESISTOR, same as A6R15	Same as A6R15								
A7R21	RESISTOR, same as A6R14	Same as A6R14								
A7R22	RESISTOR, same as A6R14	Same as A6R14								1
A7R23	RESISTOR, same as A6R15	Same as A6R15								
A7R24	RESISTOR, same as A6R15	Same as A6R15								
A7R25	RESISTOR, same as A6R14	Same as A6R14								
A7R26	RESISTOR, same as A6R14	Same as A6R14								
A7R27	RESISTOR, same as A6R15	Same as A6R15								
A7R28	RESISTOR, same as A6R15	Same as A6R15				ſ			1	
A7R29	RESISTOR, same as A6R14	Same as A6R14								
A7R30	RESISTOR, same as A6R14	Same as A6R14			1	1				
A7R31	RESISTOR, same as A6R15	Same as A6R15								
A7R32	RESISTOR, same as A6R15	Same as A6R15							1	
A7R33	RESISTOR, same as A6R14	Same as A6R14]	
A7R34	RESISTOR, same as A6R14	Same as A6R14								
A7R35	RESISTOR, same as A6R15	Same as A6R15								
					L					

FORM J4735 REV MAR 69 (Supersedes J4736 FEB 63 which is obsolete)

IDENTIFICATION TABLE OF PARTS FOR DECODER, COMMAND SIGNAL KY-681/GGC				COMMUNICATIONS TECHNOLOGY, INC. DAAB#3-69-C-#375						
REF SYM. OR PART NUMBER (1)	NAME OF PARTS AND DESCRIPTION (2)	FUNCTION (3)	ALL SYMBOLS AND PART NUMBERS INVOLVED (4)	JAN OR HIL TYPE NUMBER (5)	EQUIPMENT REPAIR PART KIT QUANTITIES PER SERVICE (6)				FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
					ARMY	AT	AGENCY	NAVY OTHES		(8)
A7R36	RESISTOR, same as A6R15	Same as A6R15								
A7R37	RESISTOR, same as A6R14	Same as A6R14								
A7VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1								
A8	CIRCUIT CARD ASSEMBLY, same as A6									
A8C1	CAPACITOR, same as A1C3	Same as A1C4			1					
A8C2	CAPACITOR, same as A1C2	Same as A1C4								
A8C3	CAPACITOR, same as A6C3	Same as A6C3								
A8C4	CAPACITOR, same as A6C3	Same as A6C3								
A8C5	CAPACITOR, same as A6C3	Same as A6C3								
A8C6	CAPACITOR, same as A6C3	Same as A6C3								
A8C7	CAPACITOR, same as A6C3	Same as A6C3								
A8C8	CAPACITOR, same as A6C3	Same as A6C3								
A8C9	CAPACITOR, same as A6C3	Same as A6C3								
A8C10	CAPACITOR, same as A6C3	Same as A6C3					1			
A8C11	CAPACITOR, same as A6C3	Same as A6C3								
A8C12	CAPACITOR, same as A6C3	Same as A6C3								
A8C13	CAPACITOR, same as A6C3	Same as A6C3								
A8C14	CAPACITOR, same as A6C3	Same as A6C3								
A8CR1	SEMICONDUCTOR DEVICE. same as A6CR1	Same as A6CR1								
A8CR2	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1								
A8CR3	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1								
A8CR4	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1								
A8CR5	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1							1	
A8CR6	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1		ł						

J FORM J4735 REV MAR 69 (Supersoder J4736 FEB 63 which is obsalete)

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NTIFIC.	ATION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KY-681/GGC		COMMUNIC	ATIONS	TECI	INOLO	GY, D	ic.	Ебнун хеу на. DAA B#3-69-C-#31	15
REF SYM. OR ART UMBER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR MIL TYPE NUMBER	EQU	IPHENT	REPAD IES PER (6)	PART SERVI	KIT CE	PEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
UMBER (1)	(2)	(3)	(1)	(5)	ARMY	AF	AGENCY	HAVY	OTHER	0	<u> @</u>
CR7	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
SCR8	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1				ŀ					
8CR9	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
8CR10	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
8CR11	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
8CR12	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
8MD1	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1							1		
8MD2	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1			1						
8MD3	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
8MD4	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4						1			
8MD5	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4									
8MD6	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4									
8MD7	INTEGRATED CIRCUIT, same as A6mD1	Same as A6MD1									1
8MD8	INTEGRATED CIRCUIT. same as A6MD1	Same as A6MD1									
8MD9	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1					1			ĺ	
8MD10	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD15									
8MD11	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD16						1			
8MD12	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD14									
8MD13	INTEGRATED CIRCUIT, same as A6MD13	Same as A6MD13									
8MD14	INTEGRATED CIRCUIT. same as A1MD2	Same as A1MD2									
8MD15	INTEGRATED CIRCUIT, same as A6MD13	Same as A6MD13									
8MD16	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD16									
8MD17	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD16									
8MD18	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD16			1						1

FORM J4736 REV MAR 69 (Supercedee J4736 FEB 63 which is obsoleta)

FICAT	ION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KY-681/GGC		COMMUNIC	ATIONS	TECH	INOLOG	IY, IN	ic.	DAAB#3-69-C-#3	75
F. J. T BER	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR MIL TYPE	EQUI QU	PMENT	REPAIR TES PER (6)	SERVI	CE	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER ENU ITEM
DEK	(2)	(3)	(4)	NUMBER (5)	ARMY	AF	AGENCY	HAVY	OTHER	()	(8)
	RESISTOR, same as A6R1	Same as A6R1									
	RESISTOR, same as A6R1	Same as A6R1							1		
	RESISTOR, same as A6R1	Same as A6R1									
	RESISTOR, same as A6R1	Same as A6R1									[
5	RESISTOR, same as A6R1	Same as A6R1		1							
6	RESISTOR, same as A6R1	Same as A6R1									
	RESISTOR, same as A6R1	Same as A6R1									
8	RESISTOR, same as A6R1	Same as A6R1									
)	RESISTOR, same as A6R1	Same as A6R1									
0	RESISTOR, same as A6R1	Same as A6R1									
1	RESISTOR, same as A6R1	Same as A6R1									
2	RESISTOR, same as A6R1	Same as A6R1									
	RESISTOR, same as A6R13	Same as A1R7									
4	RESISTOR, same as A6R14	Same as A6R14									
5	RESISTOR, same as A6R15	Same as A6R15									
6	RESISTOR, same as A6R15	Same as A6R15									
7	RESISTOR, same as A6R14	Same as A6R14									
8	RESISTOR, same as A6R14	Same as A6R14									
19	RESISTOR, same as A6R15	Same as A6R15									l
20	RESISTOR, same as A6R15	Same as A6R15									
1	RESISTOR, same as A6R14	Same as A6R14									l
22	RESISTOR, same as A6R14	Same as A6R14									
3	RESISTOR, same as A6R15	Same as A6R15									
4	RESISTOR, same as A6R15	Same as A6R15			1		1				

FORM J4736 REV MAR 69 (Supersedee J4736 FEB 63 which is obsolete)

IDENTIFICA	TAN TIDLE OF BIDTS FOR DECODER CONSIST			CONTRACTOR		_				CONTRACT NO.	
	TION TABLE OF PARTS FOR DECODER, COMMANI) SIGNAL KY-681/GGC		COMMUNIC	ATIONS	TECH	NOLOC	Y, IN	C.	DAAB#3-69-C-#3	75
REF. SYM. PART PART	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL Symbols And Part Numbers Involved	JAN OR MIL TYPE NUMBER	EQUI Qi	PMENT	REPAIR IES PER (6)	SERVIC	KIT CE	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
(1)	(2)	(3)	(4)	(5)	ARMY	AP	AGENCY	NAVY	OTHER	(7)	(8)
A8R25	RESISTOR, same as A6R14	Same as A6R14									
A8R26	RESISTOR, same as A6R14	Same as A6R14									
A8R27	RESISTOR, same as A6R15	Same as A6R15									
A8R28	RESISTOR, same as A6R15	Same as A6R15			1						
A8R29	RESISTOR, same as A6R14	Same as A6R14									
A8R30	RESISTOR, same as A6R14	Same as A6R14			į						
A8R31	RESISTOR, same as A6R15	Same as A6R15									
A8R32	RESETOR, same as A6R15	Same as A6R15									
A8R33	RESISTOR. same as A6R14	Same as A6R14									
A8R34	RESISTOR, same as A6R14	Same as A6R14									
A8R35	RESISTOR, same as A6R15	Same as A6R15		1							
A8R36	RESISTOR. same as A6R15	Same as A6R15									
A8R37	RESISTOR, same as A6R14	Same as A6R14									
A8VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as AlVR1									
A9	CIRCUIT CARD ASSEMBLY, same as A6										
A9C1	CAPACITOR. same as A1C3	Same as A1C4									
A9C2	CAPACITOR, same as A1C2	Same as A1C4									
A9C3	CAPACITOR, same as A6C3	Same as A6C3									
A9C4	CAPACITOR, same as A6C3	Same as A6C3									
A9C5	CAPACITOR, same as A6C3	Same as A6C3									
A9C6	CAPACITOR, same as A6C3	Same as A6C3									
A9C7	CAPACITOR, same as A6C3	Same as A6C3									
A9C8	CAPACITOR. same as A6C3	Same as A6C3									
A9C9	CAPACITOR, same as A6C3	Same as A6C3									
			L	<u> </u>	<u> </u>				1	L	

FORM J4735 REV MAR 69 (Supersodes J4736 FEB 63 which is obsolete)

TIFICA	TION TABLE OF PARTS FOR DECODER, COMMA	ND SIGNAL KY-681/GGC		COMMUNIC	ATIONS	TECH	NOLOO	SY, IN	c.	DAAB#3-69-C-#3	75
REF. SYM: OR ART MBER	HARE OF PAIRS AND DESCRIPTION	PUNCTISH	ALL SYNBOLS AND PARS HUNDERS INVOLVED	JAN UR HIL TYPE KUMBER	, o	UANTIT	REFAI	SERVIC		FEDERAL STOCK HUMBER	TOTAL MARREE PARTS PER END ITER
(1)	Q		6		ARAT		AGENCY	HAVY	OTHER	<u></u>	<u></u>
9C10	CAPACITOR, same as A6C3	Same as A6C3									1
9C11	CAPACITOR, same as A6C3	Same as A6C3							1		
9C12	CAPACITON same as AuC3	Same as A6C3									
9C13	CAPACITOR, same as A6C3	Same as A6C3	1							-	
9C14	CAPACITOR, same as A5C3	Same as A6C3						1			
9CR1	SEMICONDUCTOR DEVICE. same as A6CR1	Same as A6CR1					ĺ				
9CR2	3EMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
9CR3	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
9CR4	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1			1						
9CR5	SEMECONDUCTOR DEVICE, same as AbOR1	Same as AGCR1									
9CR6	SEMPCONDUCTOR DEVICE, same as A6CR1	Sume as A6CR1									
OCR7	SEMICONDUCTOR DEVICE, SALIS AS ASCR1	Same as A6C21									
OCR8	SEMICONDUCTOR DEVICE, same as A6CR1	Same at A6CR1					1				1
9CR9	SEMICONDUCTOR DEVICE, same as A6CR1	Same as AdCR1									
CR10	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1									
9CR11	SEMICONDUCTOR SEVICE, same as A6CR1	Same as A6CR1							ĺ		
9CR12	SEMICONDUCTOR DEVICE, same as A6CR1	Same as A6CR1			1		ļ				
9MD1	INTE GRATED CIRCUIT, same av ACMD1	Same as A6MD1									
9MD2	INTEGRATED CIRCUIT. same az A6MD1	Same as A6MD1				ļ					
9MD3	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD1			Í						
9MD4	INTEGRATED CIRA UIT, same as A8MD1	Same as A6MD4									1
9MD5	INTEGRATED CIRCUIT, same as A6MD1	Same as A6MD4									1
9MD6	INTEGRATED CIRCUIT, Mame as A6MD1	Same as ASMD4						1	1		
9MD7	INTEGRATED CIRCUIT, same as A6MD1	Sure as A6MD1									

FORM :4735 REV MAR 69 (Supercodes J4736 FEP 63 which is aliasiste)

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REF SYM: OR PART	KANE OF PARTS AND DESCRIPTION	PURCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL TYPE			EEPAR ES PER (9)			FEDERAL STOCK NUMBER	1
NUMBER (1)	Q	<u> </u>	INVOLVED (4)	NUMBER (5)	APHIT	AF	ACEDICY	HAVY	OTHER		Ľ
A9MD8	INTEGRATED CIRCUIT, same as ASMD1	Same as A6MD1									[
A9MD9	IN EGRATED CIRCUIT, same as A6MD1	Same as A6MD1									
A9MD10	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD19									
A9MD11	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1\$									
A9MD12	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD1\$									
A9MD13	INTEGRATED CIRCUIT, same as ACMD13	Same as A6MD13									
A9MD14	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
A9MD15	INTEGRATED CIRCUIT, same as A6ED13	Same as A6MD13									
A9MD16	INTEGRATED CIRCUIT. same as A1MD9	Same as A6MD15									
A9MD17	INTEGRATED CIRCUIT, same as A1MD9	Same as ASMD16									
A9MD18	INTEGRATED CIRCUIT, same as A1MD9	Same as A6MD19									
A9R1	RESISTOR, same as A3R1	Same as A6R1									
A9R2	RESISTOR, same as A6R1	Same as A6R1									
A9R3	RESISTOR, same as A6R1	Same as A6R1									
A9R4	RESISTOR. same as A6R1	Same as A6R1									
A9R5	RESISTOR, same as A8R1	Same as A6R1									
A9R6	RESETOR, same as A6R1	Same as A6R1				1				2	
A9R7	RESISTOR, same as A6R1	Same as A6R1									
A9R8	RESISTOR, same as A6R1	Same as A6R1									
A9R9	RESISTOR, same as AGR1	Same as A6R1				ļ]				
A9R10	RESISTOR, same as A6R1	Same as A6R1									
A9R11	RESISTOR, same as A6R1	Same as A6R1									
A9R12	RESISTOR, same as A6R1	Same as A6R1									ļ
A9R13	RESISTOR, same as A6R13	Same as A1R7									

IDENTIFICATION TABLE OF PARTS FOR DECODER, COMMAND SIGNAL KY-681/GGC

FORM J4735 REV MAR 69 (Supersodue J4735 FEB 63 which is obsolute)

TOTAL HUNDER PARTS PER EAD ITTEN (D)

NYNL OGR ANT	NAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYNBOLS AND PART NUMBERS	JAN OR MIL TYFE			REPAB IES PER (6)			FEDERAL STOCK MARIER	TOTAL HUMBER PARTS PE ZND ITE
	(2)	(3)	INVOLVED (4)	NUMBER (5)	ARMY	AF	AGENCY	HAVY	OTHER	<u>ത</u>	(10)
R14	RESISTOR, same as A6R14	Same as A6R14									
R15	RESISTOR, same as A6R15	Same as A6R15									
)R16	RESISTOR, same as A6R15	Same as A6R15			ļ					•	
R17	RESISTOR, same as A6R14	Same as A6R14									1
R18	RESISTOR, same as A6R14	Same as A6R14									
R19	RESISTOR, same as A62.15	Same as A6R15									
9R20	RESISTOR, same as A6R15	Same as A6R15									
R21	RESISTOR, same as A6R14	Same as A6R14									
R22	RESISTOR, same as A6R14	Same as A6R14									
R23	RESISTOR, same as A6215	Same as A6R15			1		1				
R24	RESISTOR, same as A6R15	Same as A6R15									1
R25	RESISTOR, same as A6R14	Same as A6R14									
)R26	RESISTOR, same as A6R14	Same as A6R14									
R27	RESISTOR, same as A6R15	Same as A6R15									
R28	RESISTOR, same as A6R15	Same as A6R15									
R29	RESISTOR, same as A6R14	Same as A6R14									
R30	RESISTOR, same as A6R14	Same as A6R14									
R31	RESISTOR, same as A6R15	Same as A6R15									
R32	RESISTOR, same as A6R15	Same as A6R15									
R33	RESISTOR, same as A6R14	Same as A6R14									
R34	RESISTOR, same as A6R14	Same as A6R14									
R35	RESISTOR, same as A6P.15	Same as A6R15									
R36	RESETOR, same as A6R15	Same as A5R15									
R37	RESETOR, same as A6R14	Same as A6R14									

FORt 14736 REV HAR 69 (Supercodes 14736 FRB 63 which is obsoleto)

ENTIFICAT	TION TABLE OF PARTS FOR DECODER, COMMAND	SIGNAL KY-681/GGC		COMMUNIC	ATION	TECH	NOLO	ay. INC.	. 1	DAABS
BEF. SYN. OR PART NUMBER	NAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR MIL TYPE NUMBER (5)	EQU	PHENT	REPAIR	PART KI SERVICE	π	PI
<u>(1)</u>	(2)	(3)	(9)	(5)	ARMY	AF	AGENCY	NAVY O	THER	
A9VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as AIVR1]			
A10	CIRCUIT CARD ASSEMBLY: epoxy glass board with printed wiring both sides; 7.45 in. wd by 3.75 in. high by 5.564 in. thick; principal com- ponents mounted on board are 2 capacitors, 1 resistor, 1 zener diode, and 8 integrated circuits; provision made for installation of up to 96 pro- gram diodes, exact number and placement depen- dent on desired sequence; NSA drawing number \$N15\$444	Provides storage and decoding for one character in tach of 48 sequences. Up to 96 program diades may be installed for char- acter selection	A1\$, A11, A12, A13, A14, A15, A16, A17, A18, A19							
A10C1	CAPACITOR, same as A1C3	Same as A1C4								
A10C2	CAPACITOR, same as A1C2	Same as A1C4					İ			
10MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5								
A10MD2	INTEGRATED CIRCUIT, logic gate: logical "1", 3. 3v min; logical "\$", \$. 6v max; 14 pin dual-in- line package, \$. 75 in. Ig by \$. 25 in. wd by \$. 12 in. high; leads project \$. 15 in; NBA drawing \$N15\$461; Signetics Corporation type \$P37\$A	Triple 3-input NOR gate	A1\$MD2, A1\$MD4, A1\$MD6, A1\$MD8, A11MD2, A11MD4, A11MD6, A11MD8, A12MD2, A12MD4, A12MD6, A12MD2, A13MD2, A13MD6, A12MD6, A13MD8, A14MD2, A14MD4, A13MD8, A14MD2, A14MD4, A14MD6, A14MD6, A15MD2, A15MD4, A15MD6, A15MD8, A16MD2, A16MD4, A16MD6, A16MD8, A17MD2, A17MD4, A17MD6, A17MD6, A18MD8, A19MD4, A13MD6, A18MD8, A19MD4, A19MD6, A19MD6, A19MD8							
A10MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5								
A10MD4	INTEGRATED CIRCUIT, same as A19MD2	Same as A1#MD2					ł			
A10MD5	INTEGRATED CIRCUIT, flip flop: dual J-K flip flop with separate clock and reset inputs; logical "1", 3.6v min; logical "\$", \$.6v max; 16 pin dual- in-line package, \$.75 in. ig by \$.25 in. wd by \$.12 in. high; leads project \$.15 in.; NSA draw- ing \$N15\$46\$; Signetics Corporation type SP322B	Counting and storage	A1\$MD5, A11MD5, A12MD5, A19MD5, A14MD5, A15MD5, A16MD6, A17MD5, A18MD5, A18MD5, A18MD5,							
A10MD6	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1#MD2				1				
A10MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2		1			1			

IDENTIFICA	TION TABLE OF PARTS FOR DECODER, COMMAN	D SIGNAL KY-681/GGC		COMMUNIC	ATION	B TECI	INOLO	3¥, D	ŧС.	ESHYMLEY NS. DAA B\$3-69-C-\$3	75
PEP. STR. CE PART	HAME OF PARTS AND DESCRIPTION	PUNCTION	All Symbols And Part Hunders Involved	JAN OR MIL TYPE NUMBER	- Q	UANTIT	REPAIN IES PER (6)	SERVI		FEDERAL STOCK NUMBER	TOTAL HUNSBER PARTS PEI END ITEN
	<u> </u>	(3)		(5)	ARSIT	AF	AGENCY	NAVY	OTHER	(7)	®
A10MD8	INTEGRATED CIRCUIT, same as A15MD2	Same as A19MD2									
A10R1	RESISTOR, fixed, composition (insulated); 3.9 chms ±5%, 1/2 wait; Specification MIL-R-11	Same as A1R7	A1ØR1, A11R1, A12R1, A13R1, A14R1, A15R1, A16R1, A17R1, A13R1, A19R1	RC2ØGF3R9J							1¢
A10VR1	SEMECONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
A11	ASSEMBLY, same as A15	Same as A15							1		
A11C1	CAPACITOR, same as A1C3	Same as A1C4									
A11C2	CAPACITOR, same as A1C2	Same as A1C4									
A11MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A11MD2	INTEGRATED CIRCUIT, same as A19MD2	Same as A19MD2									
A11MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A11MD4	INTEGRATED CIRCUIT, same as A15MD2	Same as A1\$MD3									
A11MD5	INTEGRATED CIRCUIT, same as A19MD5	Same as A1\$MD5									
A11MD6	DITEGRATED CIRCUIT, same as A15MD2	Same as A1\$MD2									
A11MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
A11MD8	INTEGRATED CIRCUIT, same as A15MD2	Same as A1\$MD2									
A11R1	RESISTOR, same as A1\$R1	Same as A1R7									
A11VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
A12	ASSEMBLY, same as A1\$	Same as A1\$									
A12C1	CAPACITOR, same as A1C3	Same as A1C4			1						
A12C2	CAPACITOR, same as A1C2	Same as A1C4									
A12MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A12MD2	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1\$MD2									
A12MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A12MD4	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1\$MD2									
A12MD5	INTEGRATED CIRCUIT, same as A19MD5	Same as A19MD5									

REV MAR 69 (Supercodes J4736 FEB 63 which is obsoleto)

STEL OZ PALT	HANE OF PARTS AND DESCRIPTION	PUNCTION	ALL Symbols And Part Numbers	jan Or Mil Type			REPAI IES PER (6)			FEDERAL STOCK NUMBER	TOTAL HUNSER PARTS PEI END ITER
	(3)	(3)	IRIVOL VIED	(5)	ARMY	AP	AGENCY	HAVY	OTHER	Ø	(0)
12MD6	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									
12MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
12MD8	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1\$MD2									
12R1	RESISTOR, same as A1¢R1	Same as A1R7									
12VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
13	ASSEMBLY, same as A10	Same as A1\$									
A13C1	CAPACITOR, same as A1C3	Same as A1C4					1	1			
A13C2	CAPACITOR, same as A1C2	Same as A1C4									
13MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5]				
13MD2	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									
A13MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5						l			
13MD4	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1\$MD2									
13MD5	INTEGRATED CIRCUIT, same as A19MD5	Same as A1\$MD5									
13MD6	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									
A13MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
13MD8	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A15MD2									
13R1	RESETOR, same as AI\$R1	Same as A1R7									
13VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
14	ASSEMBLY, same as A19	Same as A10									
14C1	CAPACITOR, same as A1C3	Same as A1C4									
14C2	CAPACITOR, same as A1C3	Same 25 A1C4									
14MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
14MD2	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2							ļ		
14MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5	1		1	1	1	1	1		1

IDENTIFICATION TABLES OF PARTS FOR DECODER, COMMAND SIGNAL KY-681/GGC

FORM 14738 | International Statements of 14786 FEB 63 which is obsoleto)

REF. Synl Or Part	NAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYMBOLS AND PART NUMBERS	COMMUNIC JAN OR MIL TYPE	EQU	PRENT	REPAIR	PART	KIT	DAAB#3-89-C-#3 FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PE
NURGER (1)	(2)	(3)	INVOLVED	NUMBER (5)	ARMY	AP	AGENCY	NAVY	OTHER	(7)	END ITER (8)
A14MD4	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1\$MD2									
A14MD5	INTEGRATED CIRCUIT, same as A15MD5	Same as A1\$MD5									
A14MD6	INTEGRATED CIRCUIT, same as A15MD2	Same as A1\$MD2									
A14MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2			1						
A14MD8	INTEGRATED CIRCUIT, same as A19MD2	Same as A19MD2									
A14R1	RESISTOR, same as A19R1	Same as A1R7			1						
A14VR1	SEMICONDUCTOR DEVICE, same as A1VR2	Same as A1VR1									
A15	ASSEMBLY, same as A1\$	Same as A15								1	
A15C1	CAPACITOR, same as A1C3	Same as A1C4									
A15C2	CAPACITOR, same as A1C2	Same as A1C4									
A15MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A15MD2	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1\$MD2									
A15MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A15MD4	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1#MD2									
A15MD5	INTEGRATED CIRCUIT, same as A1\$MD5	Same as A19MD5									
A15MD6	INTEGRATED CIRCUIT, same as A1#MD2	Same as A1\$MD2									
A15MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
A15MD8	INTEGRATED CERCUIT, same as A1\$MD2	Same as A1\$MD2									
A15R1	RESETOR, same as AlgR1	Same as A1R7									
A15VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
A16	ASSEMBLY, same as A1\$	Same as A1\$									
A16C1	CAPACITOR, same as A1C3	Same as A1C4									
A16C2	CAPACITOR, same as A1C2	Same as A1C4									
A16MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5			1						

FORM J4738 REV MAR 69 (Supercodes J4736 FEB 63 which is obsciete)

ENTIFICAT	ON TABLES OF PARTS FOR DECODER, COMMAND) SIGNAL KY-681/GGC		COMMUNICATIONS TECHNOLOGY, INC. I			NOLOG	Y, INC	c.	DAAB\$3-69-C-\$37	5
HEF. SYLL OR PART	RAME OF PARTS AND DESCRIPTION	PUNCTION	ALL SYMBOLS AND PART NUMBERS INVOLVED	JAN OR NIL TYPE NUMBER						FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
	(3)	(3)	(1)	(5)	ARMY	AF	AGENCY	NAVY	OTHER	<u></u>	(9)
A16MD2	INTEGRATED CIRCUIT, same as A19MD2	Same as A19MD2									
A16MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
16MD4	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$BD2									
A16MD5	INTEGRATED CIRCUIT, same as A19MD5	Same as A19MD5					Į.				
A16MD6	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2					ļ				
A16MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
A16MD8	INTEGRATED CIRCUIT, same as AISMD2	Same as A1\$MD2									
A16R1	RESETCR, same as AlgR1	Same as A1R7									
A16VR1	SEMICONDUCTOR DEVICE, same as AIVR1	Same as A1VR1					ł				
A17	ASCEMBLY, same as A19	Same as A1\$									
A17C1	CAPACITOR, same as A1C3	Same as A1C4									
A17C2	CAPACITOR, same as A1C2	Same as A1C4									
A17MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
17MD2	INTEGRATED CIECUIT, same as AløMD2	Same as A1\$MD2									
A17MD3	INTEGRATED CIRCUIT, same as AIMD5	Same as A1MD5									
A17MD4	INTEGRATED CIRCUIT, same as A19MD2	Same as A19MD2					ł				
A17MD5 A17MD6	INTEGRATED CIRCUIT, same as A19MD5	Same as A1\$MD5									
A17MD6	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2					l				
	INTEGRATED CIRCUIT, same as A1MD2	Same is A1MD2]
A17MD8 A17R1	INTEGRATED CIRCUIT, same as A19MD2	Same as A1#MD2						1			
A17K1 A17VR1	RESISTOR, same as A19R1	Same as A1R1									
A17 V K1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
A16 A18C1	ASSEMBLY, same as A19	Same as A19									
A10U1	CAPACITOR, same as AIC3	Same as A1C4									1

PORM 14735 MEV MAR 69 (Suppression Jet36 FEB 43 =hick is obsolute)

TIFICA	TION TABLES OF PARTS FOR DECODER, COM	MAND SIGNAL KY-681/GGC		COMMUNIC	TIONS	TECH	NOLOG	Y, IN	3.	DAAB#3-69-C-#3	75
ef. Mil Or Art	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL Type	EÓU Ói	PMENT	repair les per (ଶ)	PART SERVI	KIT E	FEDERAL STOCK NUMBER	TOTAL IFURBER PARTS PEL END ITEM
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	(3)	(3)	INVOLVED (4)	NUMBER (5)	AREFY	AF	AGENCY	HAVY	OTHER	0	0
A18C2	CAPACITOR, same as A1C3	Same as A1C4									
18MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
18MD2	INTEGRATED CIRCUIT, same as A1\$MD2	Same as A1ØMD2									
A18MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A18MD4	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									
A18MD5	INTEGRATED CIRCUIT, same as A19MD5	Same as A1\$MD5									1
A18MD6	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									1
A18MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
A18MD8	INTEGRATED CIRCUIT, same as A15MD2	Same as A1\$MD2									[
A18R1	RESISTOR, same as A1#R1	Same as A1R7									
A18VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1									
A 19	ASSEMBLY, same as A19	Same as A19									
A19C1	CAPACITOR, same as A1C3	Same as A1C4									
A19C2	CAPACITOR, SALLS as A1C2	Same as A1C4									
A19MD1	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A19MD2	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									
A19MD3	INTEGRATED CIRCUIT, same as A1MD5	Same as A1MD5									
A19MD4	INTEGRATED CIRCUIT, same as A19MD2	Same as A1\$MD2									
A19MD5	INTEGRATED CIRCUIT, same as A1\$MD5	Same as A19MD5									
A19MD6	INTEGRATED CIRCUIT, same as A1øMD2	Same as A1ØMD2									
A19MD7	INTEGRATED CIRCUIT, same as A1MD2	Same as A1MD2									
A19MD8	INTEGRATED CIRCUIT, same as A19MD2	Same as A1ØMD2									
A19H1	RESISTOR, same as A19R1	Same as A1R7									
A19VR1	SEMICONDUCTOR DEVICE, same as A1VR1	Same as A1VR1							1		

IDENTIFICA	TION TABLES OF PARTS FOR DECODER, COMMAN	D SIGNAL KY-681/GGC		COMMUNIC.	ATIONS	TECH	INOLOG	Y, N	с.	евнуялеу на. DAAB\$3-69-C-\$5	75
REP. SYIL OR PART	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL Type	EQU	IPMENT JANTIT	REPAD IES PER (6)	PART SERVIO	KIT E	FEDERAL STOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM
(1)	(2)	(3)	INVOLVED (4)	NUMBER (5)	APRIT	AP	AGENCY	HAVY	OTHER	STOCK NUMBER	<u>(0)</u>
J1	CONNECTOR BODY, receptacle, electrical: 75 position; removable contacts; 3-47/64 in. lg by 1-51/64 wd by 11/16 in. high; NSA drawing \$N15\$451; Winchester type XAC758F2A\$16	Interface connections for data line number 1	J1, J2, J3, J4								
J2	CONNECTOR BODY, same as J1	Interface connections for data. line number 2									
J3	CONNECTOR BODY, same as J1	Interface connections for data line number 3									
J4	CONNECTOR BODY, same as J1	Interface connections for data line number 4									
XA1	CONNECTOR, receptacle, electrical: 5.36 in. Ig by \$.44 in. wd by \$.51 in. high with \$.23 in. Ig dip solder contacts; double row, 56 position; black glass-filled phenolic; NSA draw- ing \$N15\$454; Winchester type 8BD28D	Receptacle for A1	XA1, XA2, XA3, XA4, XA5, XA6, XA7, XA9, XA14, XA15, XA12, XA13, XA14, XA15, XA16, XA17, XA18, XA19, plus one connector for storage of extender board								29
XA2	CONNECTOR, same as XA1	Receptacle for A2			1	Į					
XA3	CONNECTOR, same as XA1	Receptacle for A3									
XA4	CONNECTOR, same as XA1	Receptacle for A4									
XA5	CONNECTOR, same as XA1	Receptacle for A5				1					
XA6	CONNECTOR, same as X41	Receptacle for A6									
XA7	CONNECTOR, same as XA1	Receptacle for A7									
XA8	CONNECTOR, same as XA1	Receptacle for A8									
XA9	CONNECTOR, same as XA1	Receptacle for A9									
XA10	CONNECTOR, same as XA1	Receptacle for A1\$									
XA11	CONNECTOR, same as XA1	Receptacle for A11									
XA12	CONNECTOR, same as XA1	Receptacle for A12									
XA13	CONNECTOR, same as XA1	Receptacle for A13									
XA14	CONNECTOR, same as XA1	Receptacle for A14		1	1	1	1				
XA15	CONNECTOR, same as XA1	Receptacle for A15		1	ľ		{		1		ļ

FORM J4736 REV MAR 69 (Supercodes J4736 FEB 63 which is absolate)

REF. SYM. OR PART	NAME OF PARTS AND DESCRIPTION	FUNCTION	ALL SYMBOLS AND PART NUMBERS	JAN OR MIL TYPE	EQUIPMENT REPAIR PART KIT QUANTITIES PER SERVICE (6)				
(1)	(2)	(3)	INVOLVED (4)	NUMBER (5)	ARMY	AF	AGENCY	NAVY	
XA16	CONNECTOR, same as XA1	Receptacle for A16							
XA17	CONNECTOR, same as XA1	Receptacle for A17							
XA18	CONNECTOR, same as XA1	Receptacle for A18							
XA19	CONNECTOR, same as XA1	Receptacle for A19							
	CONNECTOR BODY, plug, electrical: 75 position; removable contacts; 2.75 lg by 1.45 wd by 2.55 high; NSA drawing \$N15\$45\$; Winchester type XAC 75PD3A3\$\$	Mating connectors for J1-J4, supplied with equipment							
	CONTACT, electrical: Crimp removable contact for connector body. plug, electrical: accepts AWG #24 stranded wire; 49/64 in. 1g by \$.\$62 contact diamster; NSA drawing \$N15\$452-1; Winchester type 1\$\$-1\$24P	Used with connector body, plug, electrical for signal wiring							
	CONTACT, electrical: Crimp removable contact for connector body, plug, electrical; accepts AWG #16 stranded wire; 49/64 in. 1g by 5.562 contact diameter; NSA drawing \$N15\$452-2; Winchester type 1\$5-1\$16P	Used with connector body, plug, clectrical for power wiring							
	CONTACT, electrical: Crimp removable contact for J1-J4; accepts #24 AWG stranded wire; 49/64 in. Ig by \$.\$62 socket diameter; NSA drawing \$N15\$453-1; Winchester type 1\$\$-1\$24S	Used with J1-J4 for signal wiring							
	CONTACT, electrical: Crimp removable contact for J1-J4; accepts #16 AWG stranded wire; 49/64 in. lg by \$.\$62 socket diameter; NSA drawing \$N15\$453-2; Winchester type 100-1\$168	Used with J1–J4 for power wirlug							
	KEY, polarizing: Nylon insert for connector \$N15\$454; \$.2\$6 in. 1g by \$.122 in. wd by \$.263 in. high; NSA drawing \$N15\$456; Winchester type 1\$9-8957	Keying for XA1-XA19 to allow insertion of proper Circuit Card Assembly only							
	NUT, sheet spring: Formed sheet metal nut; \$.31 in. wd by \$.36 in. lg; fits 1/16 in. panels; accepts #4A sheet metal screw; olive drab finish; NSA drawing \$N15\$431; Tinnerman type C15263-4Z-1.	Retaining device for bottom cover							

FORM J4736 REV MAR 69 (Supersedes J4736 FEB 63 which is obsciele)

1424 18. B#3-69-C-#37	5	
FEDERAL TOCK NUMBER	TOTAL NUMBER PARTS PER END ITEM	
Ø	(8)	
1 and a second sec	4	
	16	
	14ø	
	19	
	5	

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CHAPTER 7

ILLUSTRATED PARTS BREAKDOWN

I - INTRODUCTION

7-1. GENERAL. - This Illustrated Parts Breakdown lists and describes all replaceable parts of the Decoder, Command Signals KY-681/GGC.

7-2. GROUP ASSEMBLY PARTS LIST. - The Group Assembly Parts Lists (Section II) consists of all parts in the complete equipment.

a. Figure and Index Number Column. - The first item in the figure and index number column is the figure number of the illustration of the assembly listed. The figure number is not repeated thereafter except with the first item of listings continued on succeeding pages. The second number is the index number to key the part to the illustration callout. Identical parts occurring in the same general location on the equipment are illustrated and indexed but once.

b. Reference Designation Column. - This column contains all reference designations used in this Illustrated Parts Breakdown and assigned in the **equi**pment.

c. Description Column. The names used are the same assigned to the **manufacturing drawings.** Abbreviations used are in accordance with MIL-STD-12. Attaching parts are listed immediately below the items they attach.

d. <u>Part Number Column</u>. - Part numbers used in this column are selected according to the following order of preference: Military standards, design activity numbers and vendor numbers. When a vendors part number is used, the design activities **spec** control number is listed in the Description column.

e. <u>Code Ident (FSCM) Column.</u> - Manufacturers' codes are in accordance with cataloging handbook H4-1. Following is a list of manufacturers used in this Illustrated Parts Breakdown.

Code Ident (FSCM)	Name and Address
03877	Transitron Electronic Corp. 168 Alb ion St. Wakefield, M ass. 01880
04713	Mot orola Semiconductor Products Inc. P. 0. Box 955 Phoenix, Ariz. 85001

Code Ident (FSCM)	(Continued)	Name and Address
05397		Union Carbide Elec. Div. 270 Park Ave. New York, N. Y. 10017
06751		Components, Inc. Arizona Div. 3540 W. Osborn Rd. Phoenix, Ariz.
07263		Fairchild Semiconductor 313 Fairchild Drive Mountain View, Calif.
11162		Cipco Corp. 2206-08 Colen St. St. Louis, Mo. 63106
18324		Signetics Corp. 811 East Arques Ave. Sunnyvale, Calif. 94086
27014		National Semiconductor Corp. 2975 San Ysidro Way Santa Clara, Calif. 95051
71590		Globe-Union Inc., Centralab Div. P. 0. Box 591 Milwaukee, Wisc. 53201
78553		Tinnerman Products Inc. 8700 Brookpart Rd. Cleveland, Ohio 44129
80183		Sprague Products Co. 99 Marshall St. North Adams, Mass. 01247
81312		Winchester Electronics Main St. and Hillside Ave. Oakville, Conn. 06779
82567		Reeves Hoffman 400 West North St. Carlisle, Pa. 17013

Code Ident (Continued) (FSCM)	Name and Address
83508	Grant Pul ly and Hardwar e co. High St West Nyack, N. Y. 10994
88245	Litton Industries USECO Div. 13536 Saticoy St. Van Nuys, Calif. 91409

f. Units Per Assembly Column. - This number is the quantity required for the particular application being listed. "Ref" is used to indicate the number of units required has been given in a previous listing. The previous listing is indicated in parenthesis following the description of the item in the Description Column.

g. <u>Usable On Code Column.</u> - The absence of a code in this column indicates that the parts shown are usable on all models or assemblies covered by these figures.

7-3. NUMERICAL INDEX. - The Part Number column of the Numerical Index on III) contains all of the part numbers that appear in the Group Assembly Parts List.

a. <u>Part Number Column</u>. - The order of precedence in beginning **the part** number arrangement on the first (left h**and**) position of the part number is as follows:

Letters A through Z Numerals 0 through 9 (Alphabetic O's shall be considered numeric zeros (0)).

The second and succeeding positions of the part number from left to right is as follows:

(1) Space (blank column)

- (2) Diagonal (slant)
- (3) Point (period)
- (4) Dash (-)
- (5) Letters A through Z
- (6) Numerals Ø through 9

b. <u>Figure And Index Number Column</u>. - This column lists the figure and in&x number of each **appe**arance of the part in the Group Assembly Parts List **(Section II).** For Military Standard part numbers, only the first appearance in the Group Assembly Parts List is shown. c. Quantity Per Article Column. - This column lists the total quantity of each part required for the complete equipment listed.

7-4. REFERENCE DESIGNATION INDEX. - The Reference Designation column of the Reference Designation Index (Section IV) includes all reference symbols used in the Group Assembly Parts List, arranged first in alphabetical and secondly in numerical order. Opposite each symbol number is listed the figure and index number of the part in the Group Assembly Parts List, and the part number.

7-5. HOW TO USE THIS ILLUSTRATED PARTS BREAKDOWN.

a. If Location Of Parts Is Known. - Refer to Table of Contents to find the page number for the assembly in which the part is used. Turn to the page number of the illustration. Locate the part and its index number on the illustration. Find the index number in the Group Assembly Parts List. The associated listing contains all necessary information.

b. If <u>Part Number Is Known</u>. Refer to Section III, the Numerical Index, and find the part number. Note the figure and index number. Turn to Section II and find the illustration of the assembly in which the part is used. Locate the part and its index number on the illustration. Find the index number in the Group Assembly Parts List. The associated listing gives all necessary information.

c. If the reference Designation Is Known.- Refer to Section IV, Reference Designation Index and find the reference designation. The part number is given in this table. If description or location is desired, note the figure and index number. Turn to Section II and find the illustration of the assembly in which the part is used. This is the location of the part. Find the index number in the Group Assembly Parts List. Description is given in this listing.

Figure & Index No.	Ref Des	Description	Part No.	Code Ident (FSCM)	Units Per Assy	Usable On Code
7-1 - 1 - 2		DECODER, COMMAND SIGNALS KY-681/GGC DECODER SUBASSEMBLY BRACKET, MOUNTING	0N150423 0N150424 0N150425		Ref 1 2	
- 3 - 4 - 5		(ATTACHING PARTS) SCREW, MACHINE WASHER, LOCK NUT, HEX	MS51959-43 MS35338-137 MS20341-8C		6 6 6	
- 6 - 7 - 8		CHASSIS, ELEC EQPT PANEL, FRONT COVER, BOTTOM	0N150426 0N150427 0N150428		1 1 1	
- 9 - 1ø		(ATTACHING PARTS) . NUT, SHEET SPRING - NSA PART NO. ØN15Ø431 . SCREW, TAPPING	C15263-4Z-1 MS24616-3	78553	5 5	
- 11		HANDLE, BOW - NSA PART NO. \$N15\$429	1012-12	88245	2	
- 12 - 13 - 14		(ATTACHING PARTS) . FERRULE, HANDLE - NSA PART NO. ØN 15Ø43Ø . SCREW, MACHINE . WASHER, LOCK	900-12 MS51958-63 MS35338-138	88245	4 4 4	
- 15		HOLDER, CARD LABEL - NSA PART NO. ØN15Ø432	1527US28	11162	1	
- 16 - 17 - 18 - 19		(ATTACHING PARTS) . SCREW, MACHINE . WASHER, FLAT . W∴SHER, LOCK . NUT, HEX			4 4 4 4	
- 2,6		• • GUIDE, CIRCUIT CARD	0N150435		1	

Figure & Index No.	Ref Des	Description	Part No.	Code Ident (FSCM)	Units Per Assy	Usable On Code
7-1 - 21 - 22 - 23		(ATTACHING PARTS) - . SCREW, MACHINE . WASHER, LOCK . NUT, HEX*	MS51957-43 MS35338-137 MS20341-8C		4 4 4	
- 24 - 25 - 26 - 27	XA1 thru XA19	 MOTHERBOARD PRINTED WIRING BOARD CONN, RCPT, ELEC - NSA PART NO. ØN15Ø454 POLARIZING KEY - NSA PART NO. ØN15Ø456 	0N150436 0N150437 8BD28DO 109-8597	81312 81312	1 1 2ø 19	
- 28 - 29 - 3ø		(ATTACHING PARTS) . SCREW, MACHINE . WASHER, LOCK . NUT, HEX*	MS51957-14 MS35338-135 MS20341-4C		14 14 14	
- 31	J1 thru J4	CONN BODY, RCPT ELEC - NSA PART NO. ØN15Ø451	XAC75SF2A016	81312	4	
- 32 - 33 - 34		(ATTACHING PARTS) SCREW, MACHINE WASHER, LOCK NUT, HEX	MS51957-14 MS35338-135 MS20341-4C		16 16 16	
- 35 - 36 - 37		. CONTACT, ELECTRICAL - NSA PART NO. ØN15Ø453-1 . CONTACT, ELECTRICAL - NSA PART NO. ØN15Ø453-2 . GUIDE, CIRCUIT CARD	100-1024S 100-1016S 0N150448	81312 81312	149 56 1	
- 38 - 39 - 4ø		(ATTACHING PARTS) . SCREW, MACHINE . WASHER, LOCK . NUT, HEX	MS51957-43 MS35338-137 MS20341-8C		4 4 4	
- 41		PLATE, IDENTIFICATION	0N150433		1	

Figure & Index No.	Ref. Des.	Description	Part No.	Code Ident (FSCM)	Units Per Assy	Usable On Code
		(ATTACHING PARTS)				
7-1-42		SCREW, MACHINE	MS51957-4		2	
-43		WASHER, LOCK	MS35338-134		2	
-44		••••••••••••••••••••••••••••••••••••••	MS20341-2C		2	
-45	J5	CONN, RCPT, ELEC	MS3102R14S5S		1	
-16		SCREW. MACHINE	MS51957-16		4	
-47		. WASHER, LOCK	MS35338-135		4	
-48		. NUT, HEX	MS20341-4C		4	
-49	A1 thru A4	. CIRCUIT CARD ASSEMBLY	0N150438		4	
-5ø	A5 thru A9	(SEE FIG. 2 FOR BREAKDOWN) . CIRCUIT CARD ASSEMBLY	0N150440		4	
-51	A5	(SEE FIG. 3 FOR BREAKDOWN) . CIRCUIT CARD ASSEMBLY	0N150442		1	
-52	A10 thru A19	(SEE FIG. 4 FOR BREAXDOWN) . CIRCUIT CARD ASSEMBLY	0N150444		1¢	
-53		(SEE FIG. 5 FOR BREAKDOWN) EXTENDER CARD	0N150446		1	
		. SLIDE, DRAWER EXTENSION -	011120110			
- 54		NSA PART NO. 9N156449	329-18	835 ø 8	1	
		(ATTACHING PARTS)	MS51959-43			
-55		SCREW, MACHINE	MS35338-137		4	
-56		. WASHER, LOCK	MS33338-137 MS20341-8C		4	
-57		. NUT, HEX	W1520541-8C		4	
-58		. CONN BODY, PLUG ELEC - NSA PART NO. ØN159459	XAC75PD3A300	81312	4	
-59		. CONTACT, ELECTRICAL - NSA PART NO. \$\mathcal{y}15\mathcal{y}452-1	100-1024P	81312	144	
-6Ø		CONTACT, ELECTRICAL - NSA PART NO. ØN159452-2	100-1016P	81312	16	
-61		. SEMICONDUCTOR DEVICE, DIODE	JAN1N914		960	
-62	1	. CONN, PLUG, ELEC	MS3106A14S5P		1	
-63		. CLAMP, CABLE	MS3057-6A			
-64		BUSHING, CABLE	MS3420-6		1	
		······································		L		

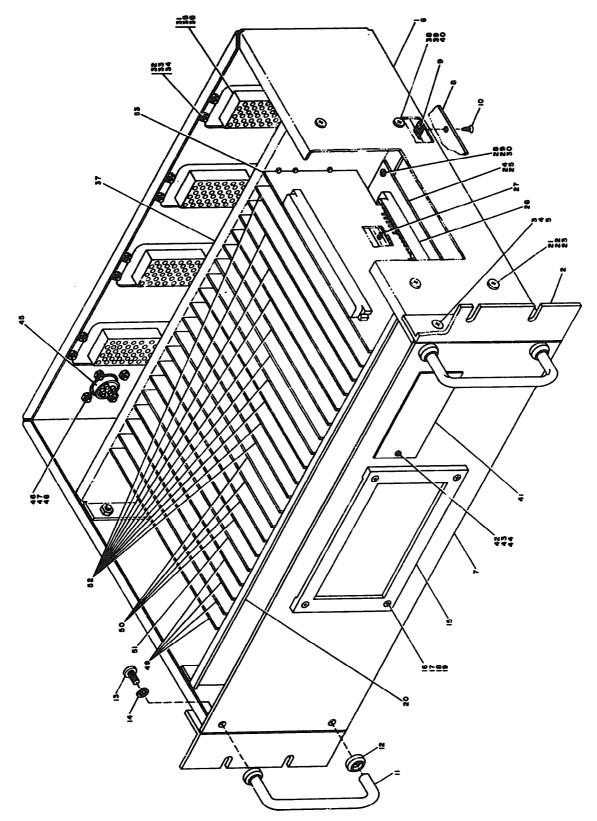


Figure 7-1. - Decoder, Command Signals KY-681/GGC

Figure & Index No.	Ref Des	Description	Part No.	Code Ident FSCM)	Units Per Assy	Usable On Code
7-2 -	Prefix with A1,	CIRCUIT CARD ASSY (SEE FIG. 1-49 FOR NHA)	0N150438		Ref	
- 1	A2, A3 or A4	. PRINTED WIRING BOARD	0N150486-1		1	
- 2	Q1	. TRANSISTOR - NSA PART NO. \$N15\$457	2N4126	¢4 713	1	
- 3 - 4	MD1 MD5, MD6, MD7,	INTEGRATED CIRCUIT, SHIFT REGISTER - NSA PART NO. ØN15Ø458 INTEGRATED CIRCUIT, FLIP-	MM505	27Ø14	1	
	MD8, MD11, MD12, MD13, MD14, MD15	FLOP - NSA PART NO. ØN15Ø459	SP321A	18324	9	
- 5 - 6	MD1¢ MD2, MD4	. INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø462 INTEGRATED CIRCUIT, LOGIC	SP377A	18324	1	
- 7	MD16	GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC	SP387A	18324	2	
	1000	GATE - NSA PART NO. ØN159465	N8480A	18324	1	
- 8 - 9	MD3 MD 9	. INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø466 . INTEGRATED CIRCUIT, OPERA-	N8481A	18324	1	
- 16	VRI	TIONAL AMPLIFIER - NSA PART NO. ØN15Ø469 (ALTERNATE SOURCE) SEMICONDUCTOR DEVICE,	MC1437L TOA2809E	Ø4713 Ø3877	1	
		DIODE NSA PART NO. ØN15Ø47Ø (ALTERNATE SOURCE)	1N4733 1N4733	Ø4713 Ø6751	1	
- 11	C2, C4, C7	. CAPACITOR, FIXED, CERAMIC DISC, .Ø1 MFD - (WVDC - NSA PART NO. ØN15Ø471	HK-103	7159Ø	3	
- 12	C3, C6, C8	. CAPACITOR, FIXED, TANTALUM, 1.Ø MFD 35WVDC - NSA PART NO. ØN15Ø475 (ALTERNATE SOURCE)	CS13BF105M 150X0035A2		3	
- 13 - 14	C5 C1	(ALTERNATE SOURCE) CAPACITOR, FIXED CAPACITOR, FIXED	K1J35S CK05BX221K CK05BX681K	ø5397	1 1	

Figure & Index No.	Ref Des	Description	Part No.	Code Ident (FSCM)	Units Per Assy	Usable On Code
7-2 - 15 - 16 - 17 - 13 - 29 - 21 - 22 - 23 - 24 - 25	R3 R8 R2 R1 R5 R6 R4 R11, R12 R9, R1Ø R7 R13	RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED	RC07GF470J RC07GF821J RC07GF102J RC07GF752J RC07GF752J RC07GF822J RC07GF683J RC07GF754J RC07GF754J RC07GF7682J		1 1 1 1 1 1 1 1 1 1 1	

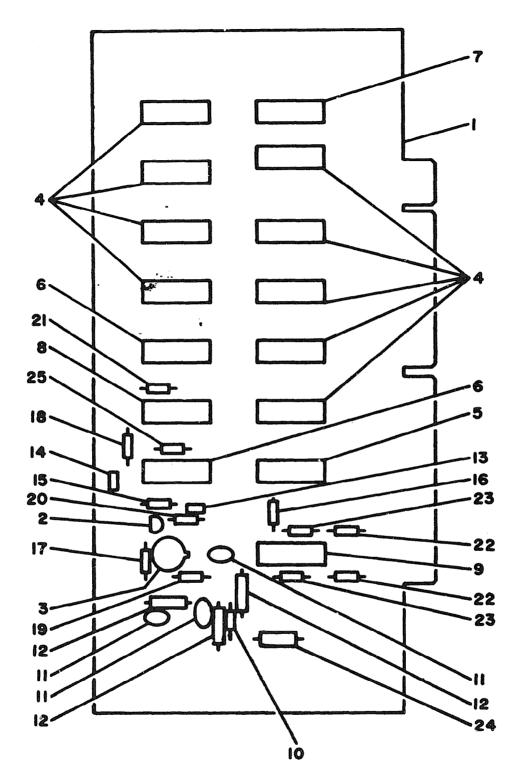


Figure 7-2. - Circuit Card Assembly, Input

7 - 4 7

7-3 - - 1 - 2 - 3 - 4 - 5	Prefix with A6, A7, A8 or A9 MD1, MD2, MD3, MD4, MD5, MD6, MD7, MD8, MD9 MD14 MD13, MD15 MD1\$, MD11, MD12, MD16,	CIRCUIT CARD ASSEMBLY (SEE FIG. 1-50 FOR NHA) PRINTED WIRING BOARD INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø463 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø468 INTEGRATED CIRCUIT, OPERA-	0N150440 0N150486-2 SP380A SP387A U6A993S59X	18324 18324	Ref 1 9	
- 2 - 3 - 4	MD1, MD2, MD3, MD4, MD5, MD6, MD7, MD8, MD9 MD14 MD13, MD15 MD1Ø, MD11, MD12, MD16,	 PRINTED WIRING BOARD INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø463 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø468 	0N150486-2 SP380A SP387A		1 9	
- 2 - 3 - 4	MD4, MD5, MD6 MD7, MD8, MD9 MD14 MD13, MD15 MD1Ø, MD11, MD12, MD16,	 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø463 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø468 	SP380A SP387A		1 9	
- 3 - 4	MD4, MD5, MD6 MD7, MD8, MD9 MD14 MD13, MD15 MD1Ø, MD11, MD12, MD16,	 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø463 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø468 	SP387A			
- 4	MD4, MD5, MD6 MD7, MD8, MD9 MD14 MD13, MD15 MD1Ø, MD11, MD12, MD16,	GATE - NSA PART NO. \$\$\\$\$\$N15\$\$463 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. \$\$\\$\$N15\$\$464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. \$\$\\$\$N15\$\$468	SP387A			
- 4	MD7, MD8, MD9 MD14 MD13, MD15 MD1ø, MD11, MD12, MD16,	 \$\$\\$\$N15\$\$463 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. \$\$\$N15\$\$464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. \$\$\$N15\$\$468 	SP387A			- -
- 4	MD14 MD13, MD15 MD1ø, MD11, MD12, MD16,	GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø468				
	MD1Ø, MD11, MD12, MD16,	GATE - NSA PART NO. ØN15Ø464 INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. ØN15Ø468		18324	1	
	MD1Ø, MD11, MD12, MD16,	ØN15Ø464 . INTEGRATED CIRCUIT, LOGIC GATE ~ NSA PART NO. ØN15Ø468		18324	1	
	MD1Ø, MD11, MD12, MD16,	. INTEGRATED CIRCUIT, LOGIC GATE ~ NSA PART NO. \$N15\$468	116A 993859X		-	
	MD1Ø, MD11, MD12, MD16,	GATE ~ NSA PART NO. ØN15Ø468	116A 993859X			
- 5	MD12, MD16,	ØN15Ø468	116A 993859X			
- 5	MD12, MD16,			Ø7263	2	
-	MD12, MD16,	. INCENTRALEU CIRCUIT, OPERA-	001222000221		~	
1		TIONAL AMPLIFIER, NSA PART				
	MD17, MD18	NO. ØN15Ø469	MD1437L	Ø4713	6	
		(ALTERNATE SOURCE)	TOA2809E	03877	ľ	
- 6	VR1	. SEMICONDUCTOR DEVICE, DIODE		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Ŭ,	* 492	NSA PART NO. ØN150470	1N4733	Ø 4713	1	
		(ALTERNATE SOURCE)	1N4733	Ø6751		
- 7	C2	. CAPACITOR, FIXED, CERAMIC		0.01		
	02	DISC Ø1 MFD 5ØWVDC - NSA		ļ		
1		PART NO. ØN15Ø471	HK-103	71590	1	
- 8	C3 thru C14	. CAPACITOR, FIXED, CERAMIC		11050		
- •	oo unu cir	DISC, . Ø2 MFD 5ØWVDC - NSA				
		PART NO. ØN156472	HK-203	71590	12	
- 9	C1	. CAPACITOR, FIXED, TANTALUM,	1111 200	11090	12	
- 5	01	1. Ø MFD 35 WVDC - NSA PART				
		NO. ØN150475	CS13BF105M	1		
[(ALTERNATE SOURCE)	150X003SA2	8Ø183	1	
		(ALTERNATE SOURCE)	K1J35S	Ø5397		
- 10	CR1 thru CR12	. SEMICONDUCTOR DEVICE, DIODE	JAN1N914	100391	12	
- 11	R15, R16, R19,	. RESISTOR, FIXED	RC07GF750J		12	
- 11		. RESISTOR, FIXED	RC0/01/500		12	
	R2Ø, R23, R24,					
	R27, R28, R31,			1		
	R32, R35, R36	DEGRIMOD EIVED	RC07GF751J			
- 12	R1 thru R12	RESISTOR, FIXED	RC07GF152J	1	12	
- 13	R14, R17, R18,	. RESISTOR, FIXED	KUUU GI 152J	1	12	
	R21, R22, R25,			1		
1	R26, R29, R30,					
	R33, R34, R37		DC20CE2D21	1		
- 14	R13	. RESISTOR, FIXED	KC20GF3K3J		1	

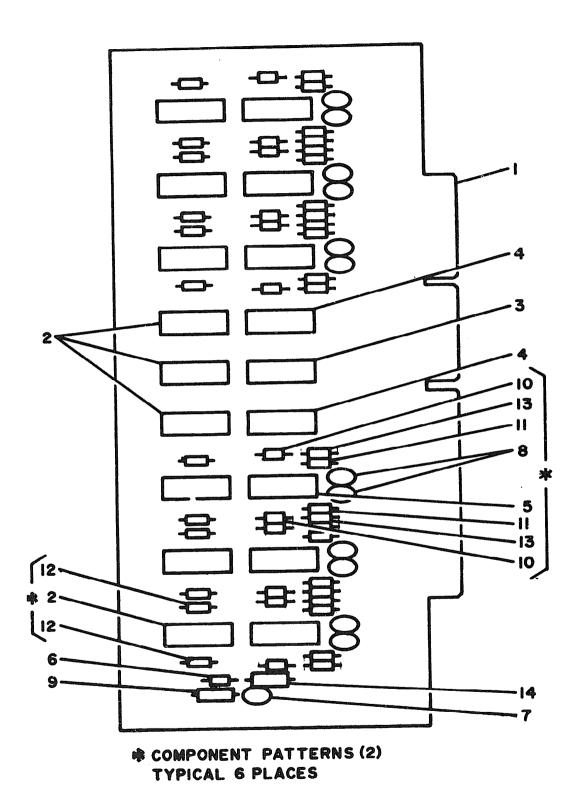


Figure 7-3. - Circuit Card Assembly, Output

7 - 4 9

		II - GROUP ASSEMBLY PARTS	S LIST			
Figure & Index No.	Ref Des	Description	Part No.	Code Ident FSCM)	Units Per Assy	Usable On Code
7-4 -	Prefix with A5	CIRCUIT CARD ASSEMBLY (SEE FIG. 1-51 FOR NHA) PRINTED WIRING BOARD	0N150442 0N150486-3		Ref 1	
- 2	MD2, MD3, MD4, MD5, MD7, MD8, MD9, MD10	. INTEGRATED CIRCUIT, FLIP- FLOP – NSA PART NO. ØN15Ø459	SP321A	18324	8	
- 3 - 4	MD6 MD1	. INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO. \$N15\$464 . INTEGRATED CIRCUIT, LOGIC	SP387A	18324	1	
- 5	VR1	GATE - NSA PART NO. ØN15Ø467 SEMICONDUCTOR DEVICE, DIODE NSA PART NO. ØN15Ø47Ø	N8880A 1N4733 1N4733	18324 Ø4713	1 1	
- 6	C2, C4	(ALTERNATE SOURCE) CAPACITOR, FIXED, CERAMIC DISC, .Ø1 MFD 5ØWVDC - NSA PART NO. ØN156471	НК-103	ø6751 7159ø	2	
- 7 - 8	Y1 C1, C3	CRYSTAL UNIT, QUARTZ, 8.999 MHZ - NSA PART NO. 9N159473 CAPACITOR, FIXED, TANTALUM,	RHA5A30- 8.000MHZ	82567	1	
		1. ØMFD 35 WVDC - NSA PART NO. ØN155475 (ALTERNATE SOURCE) (ALTERNATE SOURCE)	CS13BF105M 150X0035A2 K1J35S PC07CE1111	8Ø183 Ø5397	2	
- 9 - 1ø - 11 - 12 - 13 - 14	R1 R4, R5 R2 R3 R6 R7	RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED RESISTOR, FIXED	RC07GF111J RC07GF102J RC07GF202J RC20GF2R7J RC20GF200J RC20GF680J		1 2 1 1 1	

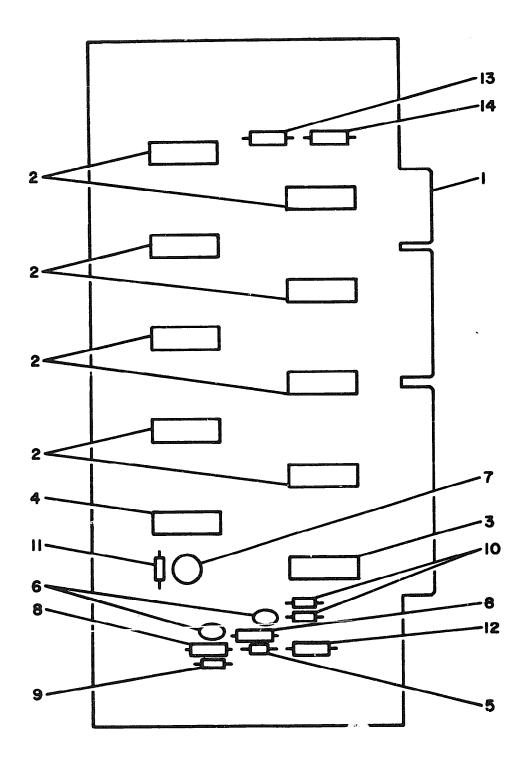


Figure 7-4. - Circuit Card Assembly, Timing

Figure & Index No.	Ref Des	Description	Part No.	Code Ident (FSCM)	Units Per Assy	Usable On Code
7-5 -	Prefix with A10, A11, A12, A13, A14, A15, A16, A17, A18, or A19	CIRCUIT CARD ASSEMBLY (SEE FIG. 1-52 FOR NHA)	0N150444		Ref	
- 1 - 2	MD1, MD3	. PRINTED WIRING BOARD . INTEGRATED CIRCUIT, FLIP- FLOP - NSA PART NO.	0N150486-4	а - -	1	
- 3	MD5	ØN15Ø459 INTEGRATED CIRCUIT, FLIP- FLOP – NSA PART NO.	SP321A	18324	2	
- 4	MD2, MD4, MD6, MD8	ØN15Ø46Ø . INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO.	SP322A	18324	1	
- 5	MD7	ØN15Ø461 . INTEGRATED CIRCUIT, LOGIC GATE - NSA PART NO.	SP370A SP387A	18324	4	
- 6	VR1	 ØN15Ø464 SEMICONDUCTOR DEVICE, DIODE NSA PART NO. ØN15Ø47Ø (ALTERNATE SOURCE) 	1N4733 1N4733	18324 Ø4713 Ø6751	1 1	
- 7	C2	(ALIERNAIE SOURCE) CAPACITOR, FIXED, CERAMIC DISC, .Ø1 MFD 50WVDC - NSA PART NO. ØN15Ø471	НК-103	71590	1	
- 8	C1 R1	CAPACITOR, FIXED, TANTALUM, 1. # MFD 35WVDC - NSA PART NO. #N15#475	CS13BF105M 150D105X0035A2 K1J35S RC20GF3R9J		1	

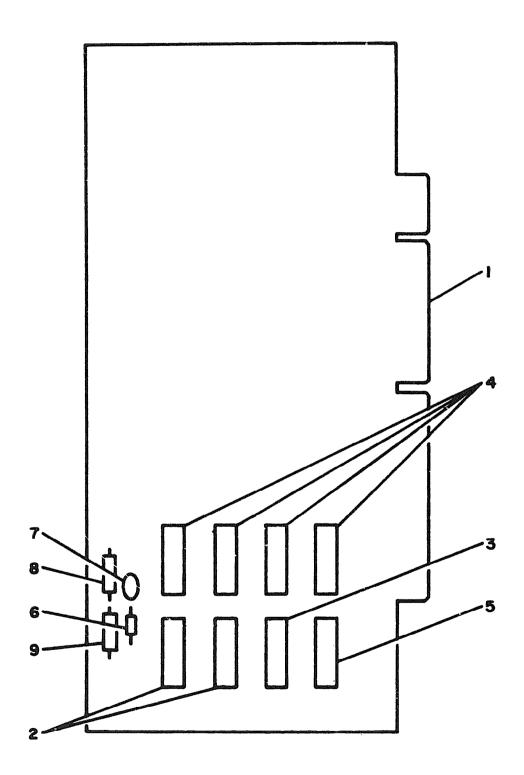


Figure 7-5. Circuit Card Assembly, Register/Program

PART NO.	FIG. & INDEX NO.	QTY PER ART	SOURCE CODE	REPAIR CODE
CK05BX221K	7-2-13	4		
CK05BX681K	7-2-14	4		
CS13BF105M	7-2-12, 7-3-9, 7-4-8, 7-5-8	28		
C15263-4Z-1	7-1-9	5		
HK-103	7-2-11, 7-3-7, 7-4-6, 7-5-7	28		
HK-203	7-3-8	48		
JAN1N914	7-1-61	1008		
K1J35S	7-2-12, 7-3-9, 7-4-8, 7-5-8	28		
MC1437L	7-2-9.7-3-5	28		-
MM505	7-2-3	4		
MS3057-6A	7-1-63	1		
MS3102R14S5S	7-1-45	1		
MS3106A14S5P	7-1-62			
MS3420-6	7-1-64	1 î		
MS15795-803	7-1-17	4		
MS203741-2C	7-1-44	2		
MS20341-4C	7-1-19	38		
MS20341-8C	7-1-5	2Ø		
MS24616-3	7-1-10	5		
MS35338-134	7-1-43	2		
MS35338-135	7-1-18	38		
MS35338-137	7-1-4	20		
MS35338-138	7-1-14	4		
MS51957-4	7-1-42	2		
MS51957-14	7-1-28	3Ø		
MS51957-16	7-1-46	4		
MS51957-43	7-1-21	8		
MS51958-63	7-1-13	4		
MS51959-17	7-1-16	4		
MS51959-43	7-1-3	10		
N8480A N8481A	7-2-7	4		
N8880A	7-2-8	4		
RC07GF470J	7-4-4 7-2-15	1 4		
RC07GF750J	7-2-15 7-3-11	48		

III - NUMERICAL INDEX

PART NO.	FIG. & INDEX NO.	QTY PER ART	SOURCE CODE	REPAIR CODE
RC07GF111J	7-4-9	1		
RC07GF751J	7-3-12	48		
RC07GF821J	7-2-16	4		
RC07GF102J	7-2-17	6		
RC07GF152J	7-3-13	48		
RC07GF202J	7-4-11	1		
RC07GF302J	7-2-18	4		
RC07GF682J	7-2-25	4		
RC07GF752J	7-2-19	4		
RC07GF822J	7-2-20	4		
RC07GF183J	7-2-21	4		
RC07GF683J	7-2-22	8		
RC07GF754J	7-2-23	8		
RC20GF2R2J	7-2-24	4		
RC20GF2R7J	7-4-12	1		
RC20GF3R3J	7-3-14	4		
RC202GF3R9J	7-5-9	10		
RC20GF200J	7-4-13	1		
RC20GF680J	7-4-14	ī		
RHA5A30-8.000MHZ	7-4-7	1		
SP321A	7-2-4,7-4-2,7-5-2	64		
SP322B	7-5-3	10		
SP370A	7-5-4	48		
SP377A	7-2-5	4		
SP380A	7-3-2	36		
SP387A	7-2-6,7-3-3,7-4-3,7-5-5	23		
TOA-2809E	7-2-9,7-3-5	28		
U6A993559X	7-3-4	8		
XAC75PD3A300	7-1-58	4		
XAC75SF2A016	7-1-31	4		
0N150423	7-1	REF		
0N150424	7-1-1	1		
0N150425	7-1-2	2		
0N150426	7-1-6			

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0N150427 0N150428 0N150433 0N150435 0N150436 0N150437	7-1-7 7-1-8 7-1-41 7-1-29	1	
0N150438 0N150440 0N150442 0N150444 0N150446 0N150486-1 0N150486-2 0N150486-3 0N150486-3 0N150486-4 1N4733 100-1016P 100-1024P 100-1024P 100-1024S 109-8597 150D105X0035A2 2N4126 329-18 8BD28D0 900-12 1012-12 1527US28	7-1-29 7-1-24 7-1-25 7-1-49, 7-2 7-1-59, 7-3 7-1-51, 7-4 7-1-52, 7-5 7-1-53 7-1-53 7-1-37 7-2-1 7-3-1 7-2-19, 7-3-6, 7-4-5, 7-5-6 7-1-59 7-1-36 7-1-35 7-1-27 7-2-12, 7-3-9, 7-4-8, 7-5-8 7-2-2 7-1-54 7-1-12 7-1-11 7-1-15	$ \begin{array}{c} 1\\ 1\\ 1\\ 4\\ 4\\ 1\\ 1 $	

III - NUMERICAL INDEX

REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER	
A1	7-1-49	0N150438	
A1C1	7-2-14	CK05BX681K	
A1C2	7-2-11	HK-103	
A1C3	7-2-12	CS13BF105M	
A1C4	7-2-11	HK-103	
A1C5	7-2-13	CK05BX221K	
A1C6	7-2-12	CS13BF105M	
A1C7	7-2-11	HK-103	
A1C8	7-2-12	CS13BF105M	
AIMDI	7-2-3	MM505	
A1MD2	7-2-6	SP387A	
A1MD3	7-2-8	N8481A	
A1MD4	7-2-6	SP387A	
A1MD5	7-2-4	SP321A	
A1MD6	7-2-4	SP321A	
A1MD7	7-2-4	SP321A SP321A	
A1MD8	7-2-4		
A1MD9	7-2-9	MC1437L	
A1MD1Ø	7-2-5	SP377A	
A1MD11	7-2-4	ŠP321A SP321A	
A1MD12	7-2-4	SP321A SP321A	
A1MD13	7-2-4	SP321A	
A1MD14	7-2-4	SP321A SP321A	
A1MD15	7-2-4	N8480A	
A1MD16	7-2-7	2N4126	
AlQI	7-2-2	RC07GF302J	
A1R1	7-2-18	RC07GF102J	
A1R2 A1R3	7-2-17	RC07GF470J	
AIR3 AIR4	7-2-15	RC07GF183J	
AIR4 AIR5	7-2-21 7-2-19	RC07GF752J	
AIR6	7-2-26	RC07GF822J	
AIR7	7-2-2#	RC20GF2R2J	
AlR8	7-2-16	RC07GF821J	
AlR9	7-2-23	RC07GF754J	
AIRI	7-2-23	RC07GF754J	
AIR19	7-2-22	RC07GF683J	
AlR12	7-2-22	RC07GF683J	
A1R13	7-2-25	RC07GF682J	
AIVRI	7-2-10	1N4733	
]	

REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A2 A2C1 A2C2 A2C3 A2C4 A2C5 A2C6 A2C7 A2C8 A2MD1 A2MD2 A2MD3 A2MD4 A2MD5 A2MD6 A2MD7 A2MD6 A2MD7 A2MD6 A2MD7 A2MD8 A2MD7 A2MD8 A2MD10 A2MD11 A2MD12 A2MD13 A2MD14 A2MD15 A2MD14 A2MD15 A2MD16 A2Q1 A2R1 A2R2 A2R3 A2R4 A2R5 A2R6 A2R7 A2R8 A2R9 A2R10 A2R11 A2R12 A2R13 A2VR1	$\begin{array}{c} 7-1-49\\ 7-2-14\\ 7-2-11\\ 7-2-12\\ 7-2-11\\ 7-2-12\\ 7-2-13\\ 7-2-13\\ 7-2-12\\ 7-2-12\\ 7-2-12\\ 7-2-12\\ 7-2-24\\ 7-2-6\\ 7-2-8\\ 7-2-6\\ 7-2-8\\ 7-2-6\\ 7-2-8\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-4\\ 7-2-1\\ 7-2-15\\ 7-2-15\\ 7-2-15\\ 7-2-15\\ 7-2-15\\ 7-2-15\\ 7-2-21\\ 7-2-15\\ 7-2-21\\ 7-2-16\\ 7-2-23\\ 7-2-23\\ 7-2-23\\ 7-2-22\\ 7-2-25\\ 7-2-10 \end{array}$	0N150438 CK05BX681K HK-103 CS13BF105M HK-103 CK05BX221K CS13BF105M HK-103 CS13BF105M MM505 SP387A SP387A SP321A SP3223 SP3223 SP323 S
	-H	<u>L</u>

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REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
12	7-1-49	0N150438
A3 A3C1	7-1-49 7-2-14	CK05BX681K
	7-2-14 7-2-11	НК-103
A3C2 A3C3	7-2-11 7-2-12	CS13BF105M
A3C3 A3C4	7-2-12 7-2-11	HK-103
A3C4 A3C5	7-2-11	CK05BX221K
A3C6	7-2-12	CS13BF105M
A3C7	7-2-11	НК-103
A3C8	7-2-12	CS13BF105M
A3MD1	7-2-3	MM505
A3MD2	7-2-6	SP387A
A3MD3	7-2-8	N8481A
A3MD4	7-2-6	SP387A
A3MD5	7-2-4	SP321A
A3MD6	7-2-4	ŠP321A
A3MD7	7-2-4	SP321A SP321A
A3MD8	7-2-4	SP321A
A3MD9	7-2-9	MC1437L
A3MD10	7-2-5	SP377A SP321A
A3MD11	7-2-4	SP321A
A3MD12	7-2-4	SP321A
A3MD13	7-2-4	SP321A
A3MD14	7-2-4	SP321A
A3MD15	7-2-4	SP321A
A3MD16	7-2-7	N8480A
A3Q1 A3R1	7-2-2	2N4126 RC07GF302J
A3K1	7-2-18	RC07GF302J RC07GF102J
A3R2	7-2-17	RC07GF470J
A3R3	7-2-15	RC07GF470J RC07GF183J
A3R4 A3R5	7-2-21	RC07GF1835 RC07GF752J
A3R6	7-2-19	RC07GF822J
A3R0 A3R7	7-2-20	RC20GF2R2J
A3R7 A3R8	7-2-24 7-2-16	RC07GF821J
A3R9	7-2-16	RC07GF754J
A3R9 A3R10	7-2-23	RC07GF754J
A3R10 A3R11	7-2-23	RC07GF683J
A3R11 A3R12	7-2-22 7-2-22	RC07GF683J
A3R12 A3R13	7-2-22 7-2-25	RC07GF682J
A3VR1	7-2-25 7-2-1Ø	1N4733
110 Y MI	(-2-10	111100
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REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A4	7-1-49	0N150438
A4C1	7-2-14	CK05BX681K
A4C2	7-2-11	HK-103
A4C3	7-2-12	CS3BF105M
A4C4	7-2-11	HK-103
A4C5	7-2-13	CK05BX221K
A4C6	7-2-12	CS3BF105M
A4C7	7-2-11	HK-103
A4C8	7-2-12	CS3BF105M
A4MD1	7-2-3	MM505
A4MD2	7-2-6	SP387A
A4MD3	7 -2 -⊍	N8481A
A4MD4	7-2-6	SP387A
A4MD5	7-2-4	SP321A
A4MD6	7-2-4	SP321A
A4MD7	7-2-4	SP321A
A4MD8	7-2-4	SP321A MC1437L
A4MD9	7-2-9	
A4MD10	7-2-5	SP377A SP321A
A4MD11	7-2-4	SP321A SP321A
A4MD12	7-2-4	SP321A SP321A
A4MD13	7-2-4	SP321A
A4MD14	7-2-4	SP321A
A4MD15	7-2-4	N8480A
A4MD16	7-2-7	2N4126
A4Q1 A4R1	7-2-2 7-2-18	RC07GF302J
A4R1 A4R2	7-2-18 7-2-17	RC07GF102J
A4R2 A4R3	7-2-17	RC07GF470J
A4R5 A4R4	7-2-15 7-2-21	RC07GF183J
A4R5	7-2-19	RC07GF752J
A4R6	7-2-20	RC07GF822J
A4R7	7-2-24	RC20GF2R2J
A4R8	7-2-16	RC07GF821J
A4R9	7-2-23	RC07GF754J
A4R10	7-2-23	RC07GF754J
A4R11	7-2-22	RC07GF683J
A4R12	7-2-22	RC07GF683J
A4R13	7-2-25	RC07GF682J
A4VR1	7-2-10	1N4733
	- - - r	

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REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO.	NUMBER
A5 A5C1 A5C2 A5C3 A5C4 A5MD1 A5MD2 A5MD3 A5MD4 A5MD5 A5MD6 A5MD7 A5MD8 A5MD9 A5MD9 A5MD9 A5MD10 A5R1 A5R2 A5R3 A5R4 A5R5 A5R6 A5R7 A5VR1 A5V1	7-1-51 7-4-8 7-4-6 7-4-8 7-4-6 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-2 7-4-5 7-4-7	0N150442 CS13BF105M HK-103 CS13BF105M HK-103 N8880A SP321A SP321A SP321A SP321A SP321A SP321A SP321A SP321A SP321A SP321A SP321A RC07GF111J RC07GF202J RC20GF2R7J RC07GF102J RC20GF200J RC20GF680J IN4733 RHA5A30-8.000MHZ

A6 7-1-50 $0N150440$ A6C1 7-3-9 CS13BF105M A6C2 7-3-7 HK-103 A6C3 7-3-8 HK-203 A6C4 7-3-8 HK-203 A6C5 7-3-8 HK-203 A6C6 7-3-8 HK-203 A6C7 7-3-8 HK-203 A6C6 7-3-8 HK-203 A6C7 7-3-8 HK-203 A6C7 7-3-8 HK-203 A6C9 7-3-8 HK-203 A6C11 7-3-8 HK-203 A6C12 7-3-8 HK-203 A6C13 7-3-8 HK-203 A6C14 7-3-8 HK-203 A6C12 7-3-16 JAN1N914 A6CR3 7-3-16 JAN1N914 A6CR4 7-3-16 JAN1N914 A6CR5 7-3-16 JAN1N914 A6CR6 7-3-16 JAN1N914 A6CR6 7-3-16 JAN1N914 A6CR7 7-3-16 JAN1	REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER	
A6MD13 7-3-4 U6A993559X A6MD14 7-3-3 SP387A	A6C1 A6C2 A6C3 A6C4 A6C5 A6C6 A6C7 A6C7 A6C8 A6C9 A6C10 A6C11 A6C11 A6C12 A6C13 A6C13 A6C13 A6CR1 A6CR1 A6CR2 A6CR3 A6CR3 A6CR4 A6CR5 A6CR5 A6CR6 A6CR7 A6CR5 A6CR6 A6CR7 A6CR1 A6CR	7-3-9 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-8 7-3-19 7-3-2 7-3-5 7-3-4	CS13BF105M HK-103 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 HK-203 JAN1N914 JANNN914 JANNN914 JANNN914 JANNN914 JANNN914 JANNNN914 JANNN914 JANNN914 JANNNN914 JANN	

REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A6MD15	7-3-4	U6A993559X
A6MD16	7-3-5	MC1437L MC1437L
A6MD17 A6MD18	7-3-5 7-3-5	MC1437L MC1437L
A6R1	7-3-5	RC07GF751J
A6R2	7-3-12	RC07GF751J
A6R3	7-3-12	RČ07ĞF751J
A6R4	7-3-12	RC07GF751J
A6R5	7-3-12	RC07GF751J
A6R6	7-3-12	RC07GF751J
A6R7	7-3-12	RC07GF751J
A6R8	7-3-12	RC07GF751J RC07GF751J
A6R9	7-3-12	RC07GF751J
A6R10 A6R11	7-3-12 7-3-12	RC07GF751J
A6R12	7-3-12	RC07GF751J
A6R13	7-3-12	RC20GF3R3J
A6R14	7-3-13	RC07GF751J
A6R15	7-3-11	RC07GF750J
A6R16	7-3-11	RC07GF750J
A6R17	7-3-13	RC07GF152J
A6R18	7-3-13	RC07GF152J
A6R19	7-3-11	RC07GF750J RC07GF750J
A6R20 A6R21	7-3-11	RC07GF150J RC07GF152J
A6R22	7-3-13 7-3-13	RC07GF152j
A6R23	7-3-13	RC07GF750J
A6R24	7-3-11	RC07GF750J
A6R25	7-3-13	RC07GF152J
A6R26	7-3-13	RC07GF152J
A6R27	7-3-11	RC07GF750J
A6R28	7-3-11	RC07GF750J
A6R29	7-3-13	RC07GF152J RC07GF152J
A6R30 A6R31	7-3-13	RC07GF750J
A6R32	7-3-11 7-3-11	RC07GF750J
A6R32	7-3-11 7-3-13	RC07GF152J
A6R34	7-3-13	RC07GF152J
A6R35	7-3-11	RC07GF750J
A6R36	7-3-11	RC07GF750J
A6R37	7-3-13	RC07GF152J 1N4733
A6VR1	7-3-6	1N4755

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0N150440 CS13BF105M HK-103 HK-203 HK-203 HK-203 HK-203 HK-203
C1 $7-3-9$ C2 $7-3-7$ C3 $7-3-8$ C4 $7-3-8$ C5 $7-3-8$ C6 $7-3-8$ C7 $7-3-8$ C8 $7-3-8$ C9 $7-3-8$ C10 $7-3-8$ C11 $7-3-8$ C12 $7-3-8$ C13 $7-3-8$ C14 $7-3-8$ C12 $7-3-8$ C13 $7-3-8$ C14 $7-3-8$ C13 $7-3-16$ C14 $7-3-16$ C15 $7-3-16$ C16 $7-3-16$ C17 $7-3-16$ C18 $7-3-16$ C19 $7-3-16$ C11 $7-3-16$ C12 $7-3-16$ C13 $7-3-16$ C14 $7-3-16$ C15 $7-3-16$ C17 $7-3-16$ C18 $7-3-26$ MD3 $7-3-26$ MD4 $7-3-26$ MD5 $7-3-26$ MD6 $7-3-26$ MD7 $7-3-26$ MD8 $7-3-26$ MD10 $7-3-26$ MD11 $7-3-56$	HK-103 HK-203 HK-203 HK-203
22 7-3-7 C3 7-3-8 C4 7-3-8 C5 7-3-8 C6 7-3-8 C7 7-3-8 C8 7-3-8 C9 7-3-8 C10 7-3-8 C11 7-3-8 C12 7-3-8 C14 7-3-8 C12 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-10 CR2 7-3-10 CR3 7-3-10 CR4 7-3-10 CR5 7-3-10 CR6 7-3-10 CR10 7-3-10 CR11 7-3-10 CR11 7-3-10 CR3 7-3-10 CR4 7-3-10 CR5 7-3-10 CR4 7-3-10 CR5 7-3-10 CR11 7-3-10 <t< td=""><td>НК-203 НК-203 НК-203 НК-203</td></t<>	НК-203 НК-203 НК-203 НК-203
C3 7-3-8 C4 7-3-8 C5 7-3-8 C6 7-3-8 C7 7-3-8 C8 7-3-8 C9 7-3-8 C10 7-3-8 C11 7-3-8 C12 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-10 CR2 7-3-10 CR3 7-3-10 CR4 7-3-10 CR5 7-3-10 CR6 7-3-10 CR7 7-3-10 CR8 7-3-10 CR9 7-3-10 CR11 7-3-10 CR12 7-3-10 CR3 7-3-10 CR4 7-3-10 CR5 7-3-10 CR6 7-3-10 CR7 7-3-10 CR10 7-3-2 MD1 7-3-2 <	HK-203 HK-203
24 7-3-8 25 7-3-8 26 7-3-8 27 7-3-8 28 7-3-8 29 7-3-8 210 7-3-8 211 7-3-8 212 7-3-8 213 7-3-8 214 7-3-8 213 7-3-8 214 7-3-8 213 7-3-8 214 7-3-8 213 7-3-8 214 7-3-8 215 7-3-10 216 7-3-10 217 7-3-10 218 7-3-10 219 7-3-10 210 7-3-10 211 7-3-10 212 7-3-10 213 7-3-10 214 7-3-10 215 7-3-10 216 7-3-10 217 7-3-10 218 7-3-10 219 7-3-10 2101 7-3-20 MD1 7-3-2 <t< td=""><td>HK-203 HK-203</td></t<>	HK-203 HK-203
7-3-8 7-3-10 7-3-10	НК-203 НК-203
26 7-3-8 27 7-3-8 28 7-3-8 29 7-3-8 216 7-3-8 29 7-3-8 216 7-3-8 217 7-3-8 218 7-3-8 211 7-3-8 212 7-3-8 213 7-3-8 214 7-3-8 213 7-3-8 214 7-3-8 213 7-3-16 214 7-3-8 213 7-3-16 214 7-3-16 215 7-3-16 2162 7-3-16 217 7-3-16 218 7-3-16 219 7-3-16 2107 7-3-16 211 7-3-16 212 7-3-16 213 7-3-16 214 7-3-16 215 7-3-16 216 7-3-2 217 7-3-2	HK-203
C7 7-3-8 C8 7-3-8 C9 7-3-8 C10 7-3-8 C11 7-3-8 C12 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-8 C14 7-3-8 C13 7-3-10 CR2 7-3-10 CR3 7-3-10 CR4 7-3-10 CR5 7-3-10 CR6 7-3-10 CR7 7-3-10 CR8 7-3-10 CR1 7-3-20 MD2 7-3-20 MD3 7-3-2 MD6 7-3-2 MD6 7-3-2	1111-400
7-3-8 7-3-8 29 7-3-8 210 7-3-8 211 7-3-8 212 7-3-8 213 7-3-8 214 7-3-8 213 7-3-8 214 7-3-10 2R2 7-3-10 2R3 7-3-10 2R4 7-3-10 2R3 7-3-10 2R4 7-3-10 2R5 7-3-10 2R6 7-3-10 2R7 7-3-10 2R8 7-3-10 2R8 7-3-10 2R8 7-3-10 2R9 7-3-10 2R10 7-3-10 2R11 7-3-10 2R12 7-3-10 2R13 7-3-20 MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD6 7-3-2 MD6 7-3-2 MD8 7-3-2 MD9 7-3-2 <t< td=""><td>HK-203</td></t<>	HK-203
7-3-8 7-3-10 7-3-10 7-3-10 7-3-10 7-3-10 7-3-11 7-3-12 7-3-14 7-3-15 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16 7-3-16	HK-203
216 7-3-8 211 7-3-8 212 7-3-8 213 7-3-8 214 7-3-8 213 7-3-8 214 7-3-10 CR2 7-3-10 CR2 7-3-10 CR3 7-3-10 CR4 7-3-10 CR5 7-3-10 CR6 7-3-10 CR7 7-3-10 CR8 7-3-10 CR10 7-3-10 CR11 7-3-10 CR12 7-3-10 WD1 7-3-2 MD3 7-3-2 MD5 7-3-2 MD6 7-3-2 MD9 7-3-2 MD100 7-3-2 MD11 7-3-5	HK-203
11 7-3-8 212 7-3-8 213 7-3-8 214 7-3-8 CR1 7-3-8 CR2 7-3-19 CR3 7-3-19 CR4 7-3-19 CR5 7-3-19 CR6 7-3-19 CR7 7-3-19 CR8 7-3-19 CR9 7-3-19 CR10 7-3-19 CR11 7-3-19 CR12 7-3-19 CR13 7-3-19 CR6 7-3-19 CR6 7-3-19 CR7 7-3-19 CR8 7-3-19 CR9 7-3-19 CR11 7-3-19 CR12 7-3-19 MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD6 7-3-2 MD8 7-3-2 MD9 7-3-2 MD10 7-3-5	HK-203
212 7-3-8 213 7-3-8 214 7-3-8 214 7-3-8 CR1 7-3-19 CR2 7-3-19 CR3 7-3-19 CR4 7-3-19 CR5 7-3-19 CR6 7-3-19 CR7 7-3-19 CR8 7-3-19 CR8 7-3-19 CR9 7-3-19 CR11 7-3-19 CR12 7-3-19 CR13 7-3-19 CR14 7-3-19 CR15 7-3-19 CR9 7-3-19 CR11 7-3-19 CR12 7-3-19 MD1 7-3-2 MD2 7-3-2 MD5 7-3-2 MD6 7-3-2 MD6 7-3-2 MD8 7-3-2 MD9 7-3-2 MD10 7-3-2 MD10 7-3-5	HK-203
213 7-3-8 214 7-3-8 214 7-3-10 2R1 7-3-10 2R2 7-3-10 2R3 7-3-10 2R4 7-3-10 2R5 7-3-10 2R6 7-3-10 2R7 7-3-10 2R8 7-3-10 2R8 7-3-10 2R9 7-3-10 2R10 7-3-10 2R11 7-3-10 2R12 7-3-10 2R10 7-3-10 2R11 7-3-10 2R12 7-3-10 2R14 7-3-10 2R15 7-3-10 2R16 7-3-20 MD1 7-3-2 MD5 7-3-2 MD6 7-3-2 MD8 7-3-2 MD10 7-3-2 MD10 7-3-2 MD6 7-3-2 MD10 7-3-5	HK-203
C14 7-3-8 CR1 7-3-19 CR2 7-3-19 CR3 7-3-19 CR4 7-3-19 CR5 7-3-19 CR6 7-3-19 CR7 7-3-19 CR8 7-3-19 CR9 7-3-19 CR11 7-3-19 CR12 7-3-19 CR12 7-3-19 CR12 7-3-2 MD1 7-3-2 MD5 7-3-2 MD6 7-3-2 MD9 7-3-2 MD19 7-3-2 MD19 7-3-5	НК-203
CR1 7-3-1# CR2 CR2 7-3-1# CR3 CR4 7-3-1# CR4 CR5 7-3-1# CR6 CR6 7-3-1# CR7 CR7 7-3-1# CR9 CR8 7-3-1# CR1# CR1# 7-3-2# MD2 CR1# 7-3-2# MD5 VID4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD1# 7-3-5	НК-203
Transmission Transmission Transmission Transmission	JAN1N914
CR4 7-3-14 CR5 7-3-14 CR6 7-3-14 CR7 7-3-14 CR8 7-3-14 CR9 7-3-14 CR9 7-3-14 CR10 7-3-14 CR11 7-3-14 CR12 7-3-14 CR12 7-3-14 CR12 7-3-14 MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD6 7-3-2 MD8 7-3-2 MD9 7-3-2 MD14 7-3-5	JAN1N914
CR5 7-3-10 CR6 7-3-10 CR7 7-3-10 CR9 7-3-10 CR10 7-3-10 CR11 7-3-10 CR12 7-3-10 CR12 7-3-10 CR12 7-3-10 CR12 7-3-10 MD1 7-3-2 MD2 7-3-2 MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD6 7-3-2 MD9 7-3-2 MD100 7-3-5	JAN1N914
Transmission Transmission Transmission Transmission	JAN1N914
DR7 7-3-10 DR8 7-3-10 DR9 7-3-10 DR9 7-3-10 DR10 7-3-10 DR12 7-3-10 DR12 7-3-10 DR12 7-3-10 MD1 7-3-2 MD2 7-3-2 MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD100 7-3-2 MD11 7-3-2 MD5 7-3-2 MD6 7-3-2 MD10 7-3-2 MD11 7-3-2	JAN1N914
TR8 7-3-10 CR9 7-3-10 CR10 7-3-10 CR11 7-3-10 CR12 7-3-10 MD1 7-3-20 MD2 7-3-20 MD3 7-3-20 MD5 7-3-20 MD6 7-3-20 MD7 7-3-20 MD6 7-3-20 MD6 7-3-20 MD6 7-3-20 MD6 7-3-20 MD6 7-3-20 MD6 7-3-20 MD8 7-3-20 MD9 7-3-20 MD100 7-3-20 MD10 7-3-50	j JAN1N914
CR9 7-3-10 CR10 7-3-10 CR11 7-3-10 CR11 7-3-10 CR12 7-3-10 MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD100 7-3-5 MD11 7-3-5	JAN1N914
CR1Ø 7-3-1Ø CR11 7-3-1Ø CR12 7-3-1Ø MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD1Ø 7-3-5	JAN1N914
TR11 7-3-10 CR12 7-3-10 MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD6 7-3-2 MD6 7-3-2 MD6 7-3-2 MD6 7-3-2 MD9 7-3-2 MD10 7-3-5 MD11 7-3-5	JAN1N914
Transmission Transmission Transmission Transmission MD1 Transmission MD2 Transmission MD3 Transmission MD4 Transmission MD5 Transmission MD6 Transmission MD6 Transmission MD6 Transmission MD7 Transmission MD8 Transmission MD9 Transmission MD100 Transmission MD111 Transmission	JAN1N914
MD1 7-3-2 MD2 7-3-2 MD3 7-3-2 MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD6 7-3-2 MD6 7-3-2 MD6 7-3-2 MD9 7-3-2 MD9 7-3-2 MD100 7-3-2 MD110 7-3-5	JAN1N914
MD2 7-3-2 MD3 7-3-2 MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD1Ø 7-3-5 MD11 7-3-5	JAN1N914
MD3 7-3-2 MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 MD8 7-3-2 MD9 7-3-2 MD1Ø 7-3-5 MD11 7-3-5	SP380A
MD4 7-3-2 MD5 7-3-2 MD6 7-3-2 1D7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD1Ø 7-3-5	SP380A
MD5 7-3-2 MD6 7-3-2 MD7 7-3-2 MD9 7-3-2 MD1Ø 7-3-2 MD11 7-3-5	SP380A
MD6 7-3-2 MD7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD10 7-3-5	SP380A SP380A
1D7 7-3-2 MD8 7-3-2 MD9 7-3-2 MD1Ø 7-3-5 MD11 7-3-5	
MD8 7-3-2 MD9 7-3-2 MD1Ø 7-3-5 MD11 7-3-5	
MD9 7-3-2 MD1Ø 7-3-5 MD11 7-3-5	ŠP380A
MD1Ø 7-3-5 MD11 7-3-5	SP380A SP380A
WD11 7-3-5	SP380A SP380A SP380A SP380A
	SP380A SP380A SP380A SP380A SP380A
	SP380A SP380A SP380A SP380A SP380A MC1437L
MD12 7-3-5	SP380A SP380A SP380A SP380A MC1437L MC1437L
MD13 7-3-4	SP380A SP380A SP380A SP380A MC1437L MC1437L MC1437L MC1437L
MD14 7-3-3	SP380A SP380A SP380A SP380A MC1437L MC1437L

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REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A7MD15	7-3-4	U6A993559X
A7MD16	7-3-5	MC1437L
A7MD17	7-3-5	MC1437L
A7MD18	7-3-5	MC1437L
A7R1	7-3-12	<u>RC07GF751J</u>
A7R2	7-3-12	RC07GF751J
A7R3	7-3-12	RC07GF751J
A7R4	7-3-12	RC07GF751J
A7R5	7-3-12	RC07GF751J
A7R6	7-3-12	RC07GF751J
A7R7	7-3-12	RC07GF751J
A7R8	7-3-12	RC07GF751J
A7R9	7-3-12	RC07GF751J
A7R10	7-3-12	RC07GF751J
A7R11	7-3-12	RC07GF751J
A7R12	7-3-12	RC07GF751J
A7R13	7-3-14	RC20GF3R3J
A7R14	7-3-13	RC07GF752J
A7R15	7-3-11	RC07GF750J
A7R16	7-3-11	RC07GF750J
A7R17	7-3-13	RC07GF752J
A7R18	7-3-13	RC07GF752J
A7R19	7-3-11	RC07GF750J
A7R2Ø	7-3-11	RC07GF750J
A7R21	7-3-13	RC07GF752J
A7R22	7-3-13	RC07GF752J
A7R23	7-3-11	RC07GF750J
A7R24	7-3-11	RC07GF750J
A7R25	7-3-13	RC07GF752J
A7R26	7-3-13	RC07GF752J
A7R27	7-3-11	RC07GF750J
A7R28	7-3-11	RC07GF750J
A7R29	7-3-13	RC07GF752J
A7R3Ø	7-3-13	RC07GF752J
A7R31	7-3-11	RC07GF750J
A7R32	7-3-11	RC07GF750J
A7R33	7-3-13	RC07GF752J
A7R34	7-3-13	RC07GF752J
A7R35	7-3-11	RC07GF750J
A7R36	7-3-11	RC07GF750J
A7R37	7-3-13	RC07GF752J
A7VR1	7-3-6	1N4733

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REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO.	NUMBER
A8	7-1-50	0N150440
A8C1	7-3-9	CS13BF105M
A8C2	7-3-7	HK-103
A8C3	7-3-8	HK-203
A8C4	7-3-8	HK-203
A8C5	7-3-8	НК-203
A8C6	7-3-8	НК-203
A8C7	7-3-8	НК-203
A8C8	7-3-8	<u>HK-203</u>
A8C9	7-3-8	HK-203
A8C1ø	7-3-8	HK-203
A8C11	7-3-8	HK-203
A8C12	7-3-8	HK-203
A8C13	7-3-8	HK-203
A8C14	7-3-8	HK-203
A8CR1	7-3-10	JAN1N914
A8CR2	7-3-10	JAN1N914
A8CR3	7-3-10	JAN1N914
A8CR4	7-3-10	JAN1N914
A8CR5	7-3-10	JAN1N914
A8CR6	7-3-19	JAN1N914 JAN1N914
A8CR7	7-3-10	JAN1N914 JAN1N914
ASCR8	7-3-10	JAN1N914
A8CR9	7-3-10	JAN1N914
A8CR1Ø A8CR11	7-3-1ø 7-3-1ø	JAN1N914
A8CR12	7-3-19 7-3-10	JAN1N914
A8MD1	7-3-19	SP380A
A8MD2	7-3-2	SP380A
A8MD2 A8MD3	7-3-2	SP380A
A8MD4	7-3-2	SP380A
A8MD5	7-3-2	SP380A
A8MD6	7-3-2	SP380A
A8MD7	7-3-2	SP380A
A8MD8	7-3-2	ŠP380A
A8MD9	7-3-2	SP380A
ASMD1Ø	7-3-5	MC1437L
A8MD11	7-3-5	MC1437L
A8MD12	7-3-5	MC1437L
A8MD13	7-3-4	U6A993559X
A8MD14	7-3-3	SP387A
	l	L

REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO.	NUMBER
A8MD15	7-3-4	U6A993559X
A8MD16	7-3-5	MC1437L
A8MD17	7-3-5	MC1437L
A8MD18	7-3-5	MC1437L
A8R1	7-3-12	RC07GF751J
A8R2	7-3-12	RC07GF751J
A8R3	7-3-12	RC07GF751J
A8R4	7-3-12	RČ07GF751J
A8R5	7-3-12	RC07GF751J
ASR6	7-3-12	RC07GF751J
ASR7	7-3-12	RC07GF751J
ASR8	7-3-12	RC07GF751J
ASR9	7-3-12	RC07GF751J
ASRIØ	7-3-12	RČ07GF751J
A8R11	7-3-12	RC07GF751J
ASR11 ASR12	7-3-12	RC07GF751J
ASR12 ASR13	7-3-12	RC20GF3R3J
ASR13	7-3-14	RC07GF152J
	7-3-13	RC07GF750J
A8R15 A8R16	7-3-11 7-3-11	RC07GF750J
A8R17	7-3-13	RC07GF152J
ASR18	7-3-13	RC07GF152J
	7-3-13	RC07GF750J
A8R19 A8R2Ø	7-3-11	RC07GF750J
A8R21	7-3-11	RC07GF152J
ASR21 A8R22	7-3-13	RC07GF152J
A8R23	7-3-13	RC07GF750J
ASR24	7-3-11	RC07GF750J
A8R25	7-3-13	RC07GF152J
A8R25 A8R26	7-3-13	RC07GF152J
ASR20 ASR27	7-3-13	RC07GF750J
		RC07GF750J
A8R28	7-3-11	RC07GF152J
A8R29	7-3-13	RC07GF152J
A8R3Ø	7-3-13	RC07GF750J
A8R31	7-3-11	RC07GF750J
A8R32	7-3-11	RC07GF152J
A8R33	7-3-13	RC07GF152J
A8R34	7-3-13	RC07GF750J
A8R35	7-3-11	RC07GF750J
A8R36	7-3-11	RC07GF152J
A8R37	7-3-13	1N4733
A8VR1	7-3-6	1114/00

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REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
A9	7-1-50	0N150440
A9C1	7-3-9	CS13BF105M
A9C2	7-3-3	HK-103
A9C3	7-3-8	HK-203
A9C4	7-3-8	HK-203
A9C5	7-3-8	HK-203
A9C6	7-3-8	HK-203
A9C7	7-3-8	HK-203
A9C8	7-3-8	HK-203
A9C9	7-3-8	HK-203
A9C1¢	7-3-8	HK-203
A9C11	7-3-8	HK-203
A9C12	7-3-8	HK-203
A9C12	7-3-8	HK-203
A9C14	7-3-8	HK-203
A9CR1	7-3-10	JAN1N914
A9CR2	7-3-14	JAN1N914
A9CR3	7-3-10	JAN1N914
A9CR4	7-3-10	JAN1N914
A9CR5	7-3-10	JAN1N914
A9CR6	7-3-10	JAN1N914
A9CR7	7-3-10	JAN1N914
A9CR8	7-3-16	JAN1N914
A9CR9	7-3-10	JAN1N914
A9CRIØ	7-3-1ø	JAN1N914
A9CR11	7-3-19	JAN1N914
A9CR12	7-3-10	JAN1N914
A9MD1	7-3-2	SP380A
A9MD2	7-3-2	SP380A
A9MD3	7-3-2	SP380A
A9MD4	7-3-2	ŠP380A
A9MD5	7-3-2	SP380A
A9MD6	7-3-2	SP380A
A9MD7	7-3-2	SP380A
A9MD8	7-3-2	SP380A
A9MD9	7-3-2	SP380A
APMD1Ø	7-3-5	MC1437L
A9MD11	7-3-5	MC1437L
A9MD12	7-3-5	MC1437L
A9MD13	7-3-4	U6A993559X
A9MD13	7-3-3	SP387A

REFERENCE DESIGNATION	FIGURE &	PART NUMBER
A9MD15	7-3-4	U6A993559X
A9MD16	7-3-5	MC1437L
A9MD17	7-3-5	MC1437L
A9MD18	7-3-5	MC1437L
A9R1	7-3-12	RC07GF751J
A9R2	7-3-12	RČ07GF751J
A9R3	7-3-12	RC07GF751J
A9R4	7-3-12	RČ07ĞF751Ĵ
A9R5	7-3-12	RC07GF751J
A9R6	7-3-12	RC07GF751J
A9R7	7-3-12	RC07GF751J
A9R8	7-3-12	RC07GF751J
A9R9	7-3-12	RC07GF751J
A9R1Ø	7-3-12	RC07GF751J
A9R11	7-3-12	RC07GF751J
A9R12	7-3-12	RC07GF751J
A9R13	7-3-14	RC20GF3R3J
A9R14	7-3-13	RC07GF152J
A9R15	7-3-11	RC07GF750J
A9R16	7-3-11	RC07GF750J
A9R17	7-3-13	RC07GF152J
A9R18	7-3-13	RC07GF152J
A9R19	7-3-11	RC07GF750J
A9R2Ø	7-3-11	RC07GF750J
A9R21	7-3-13	RC07GF152J
A9R22	7-3-13	RC07GF152J
A9R23	7-3-11	RC07GF750J
A9R24	7-3-11	RC07GF750J
A9R25	7-3-13	RC07GF152J
A9R26	7-3-13	RC07GF152J
A9R27	7-3-11	RC07GF750J
A9R28	7-3-11	RC07GF750J
A9R29	7-3-13	RC07GF152J
A9R3Ø	7-3-13	RC07GF152J
A9R31	7-3-11	RC07GF750J
A9R32	7-3-11	RC07GF750J
A9R33	7-3-13	RC07GF152J
A9R34	7-3-13	RC07GF152J
A9R35	7-3-11	RC07GF750J
A9R36	7-3-11	RC07GF750J
A9R37	7-3-13	RC07GF152J
A9VR1	7-3-6	1N4733

RE FERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER

DESIGNATION	INDEX NO.	NUMBER
A11 A11C1 A11C2 A11MD1 A11MD2 A11MD3 A11MD5 A11MD6 A11MD7 A11MD8 A11R1 A11VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-2 7-5-4 7-5-5 7-5-4 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP321A SP370A SP370A SP370A SP370A RC20GF3R9J 1N4733

REFERENCE	FIGURE &	PART	
DESIGNATION	INDEX NO.	NUMBER	
A12 A12C1 A12C2 A12MD1 A12MD2 A12MD3 A12MD4 A12MD5 A12MD6 A12MD7 A12MD8 A12R1 A12VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-2 7-5-4 7-5-3 7-5-4 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP321A SP370A SP370A SP387A SP370A RC20GF3R9J 1N4733	

REFERENCE	FIGURE &	PART	
DESIGNATION	INDEX NO.	NUMBER	
DESIGNATION	INDEX NO.	NUMBER	
A13	7-1-52	0N150444	
A13C1	7-5-8	CS13BF105M	
A13C2	7-5-7	HK-103	
A13MD1	7-5-2	SP321A	
A13MD2	7-5-4	SP370A	
A13MD3	7-5-3	SP321A	
A13MD5	7-5-4	SP370A	
A13MD5	7-5-5	SP370A	
A13MD6	7-5-4	SP370A	
A13MD7	7-5-5	SP370A	
A13MD8	7-5-4	SP370A	
A13R1	7-5-9	RC20GF3R9J	
A13VR1	7-5-6	1N4733	
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REFERENCE	FIGURE &	PART	
DESIGNATION	INDEX NO.	NUMBER	
A14 A14C1 A14C2 A14MD1 A14MD2 A14MD3 A14MD5 A14MD6 A14MD7 A14MD8 A14R1 A14VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-2 7-5-4 7-5-3 7-5-4 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP370A SP370A SP370A SP370A RC20GF3R9J 1N4733	

FIGURE & INDEX NO.	PART NUMBER	
7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-2 7-5-4 7-5-3 7-5-4 7-5-5 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP321A SP370A SP322A SP370A SP370A SP387A SP370A RC20GF3R9J 1N4733	
	INDEX NO. 7-1-52 7-5-8 7-5-7 7-5-2 7-5-2 7-5-4 7-5-2 7-5-4 7-5-3 7-5-4 7-5-5 7-5-4 7-5-5 7-5-4 7-5-9	INDEX NO. NUMBER 7-1-52 0N150444 7-5-8 CS13BF105M 7-5-7 HK-103 7-5-2 SP321A 7-5-4 SP370A 7-5-3 SP322A 7-5-4 SP370A 7-5-5 SP322A 7-5-4 SP370A 7-5-5 SP322A 7-5-4 SP370A 7-5-5 SP387A 7-5-5 SP370A 7-5-5 SP370A 7-5-5 SP370A 7-5-5 SP387A 7-5-9 RC20GF3R9J

REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO.	NUMBER
A16 A16C1 A16C2 A16MD1 A16MD2 A16MD3 A16MD4 A16MD6 A16MD7 A16MD8 A16R1 A16VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-2 7-5-4 7-5-3 7-5-5 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CSI3BF105M HK-103 SP321A SP370A SP321A SP370A SP322A SP370A SP370A RC20GF3R9J 1N4733

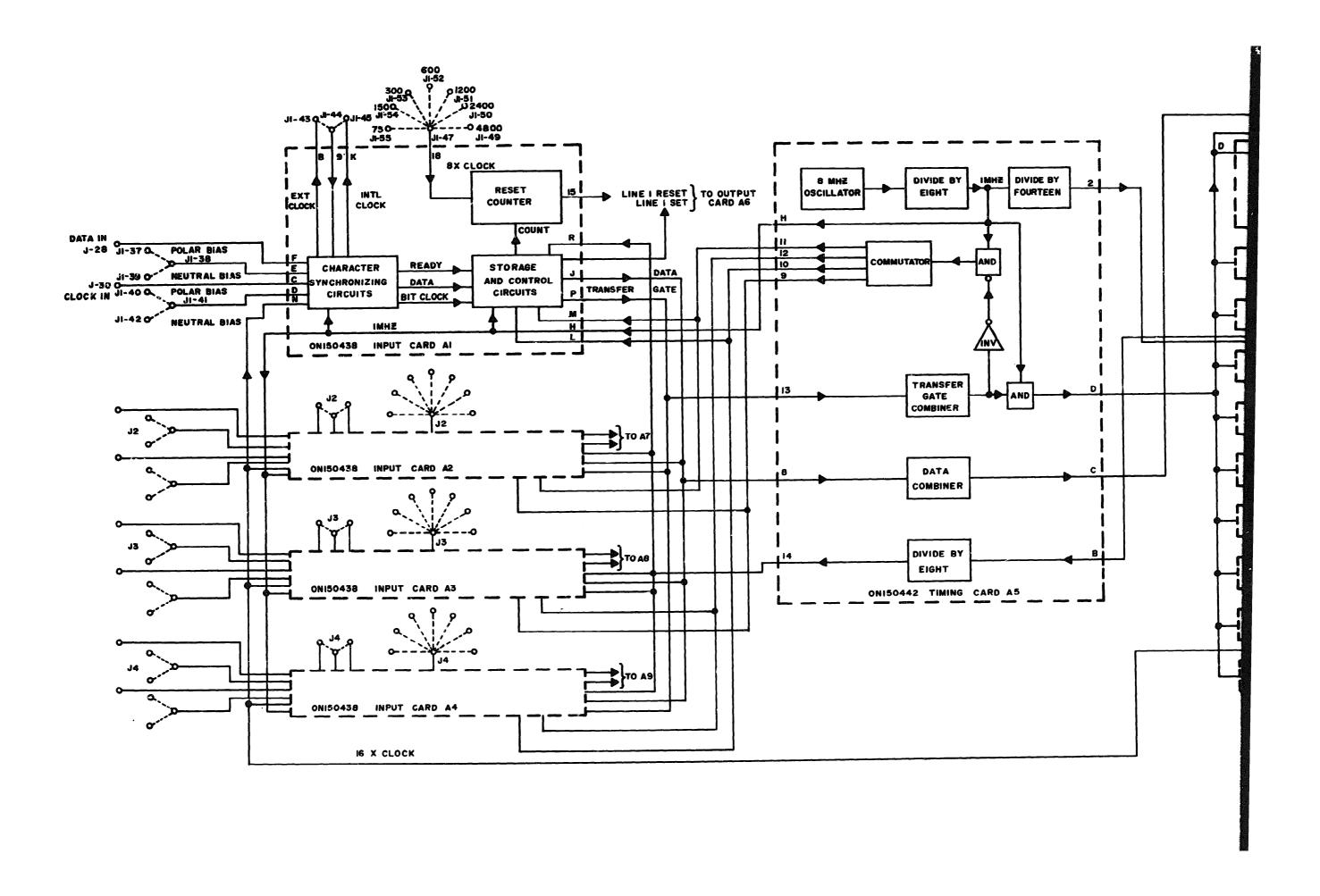
REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO,	NUMBER
A17 A17C1 A17C2 A17MD1 A17MD2 A17MD3 A17MD6 A17MD6 A17MD7 A17MD8 A17R1 A17VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-3 7-5-4 7-5-5 7-5-4 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP322A SP370A SP387A SP370A RC20GF3R9J 1N4733

REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO.	NUMBER
A18 A18C1 A18C2 A18MD1 A18MD2 A18MD5 A18MD6 A18MD7 A18MD8 A18R1 A18VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-3 7-5-3 7-5-4 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP370A SP322A SP370A SP387A SP370A RC20GF3R9J IN4733

REFERENCE	FIGURE &	PART
DESIGNATION	INDEX NO.	NUMBER
A19 A19C1 A19C2 A19MD1 A19MD2 A19MD3 A19MD4 A19MD6 A19MD6 A19MD7 A19MD8 A19R1 A19VR1	7-1-52 7-5-8 7-5-7 7-5-2 7-5-4 7-5-2 7-5-4 7-5-3 7-5-5 7-5-4 7-5-5 7-5-4 7-5-9 7-5-6	0N150444 CS13BF105M HK-103 SP321A SP370A SP322A SP370A SP370A SP370A RC20GF3R9J 1N4733

REFERENCE DESIGNATION	FIGURE & INDEX NO.	PART NUMBER
J1 J2 J3 J4 J5	7-1-31 7-1-31 7-1-31 7-1-31 7-1-45 7-1-26	XAC75SF2A016 XAC75SF2A016 XAC75SF2A016 XAC75SF2A016 MS3102R14S5S 8BD28DO
XA1 THRU XA19	/~1-20	
an,		7-80

APPENDIX



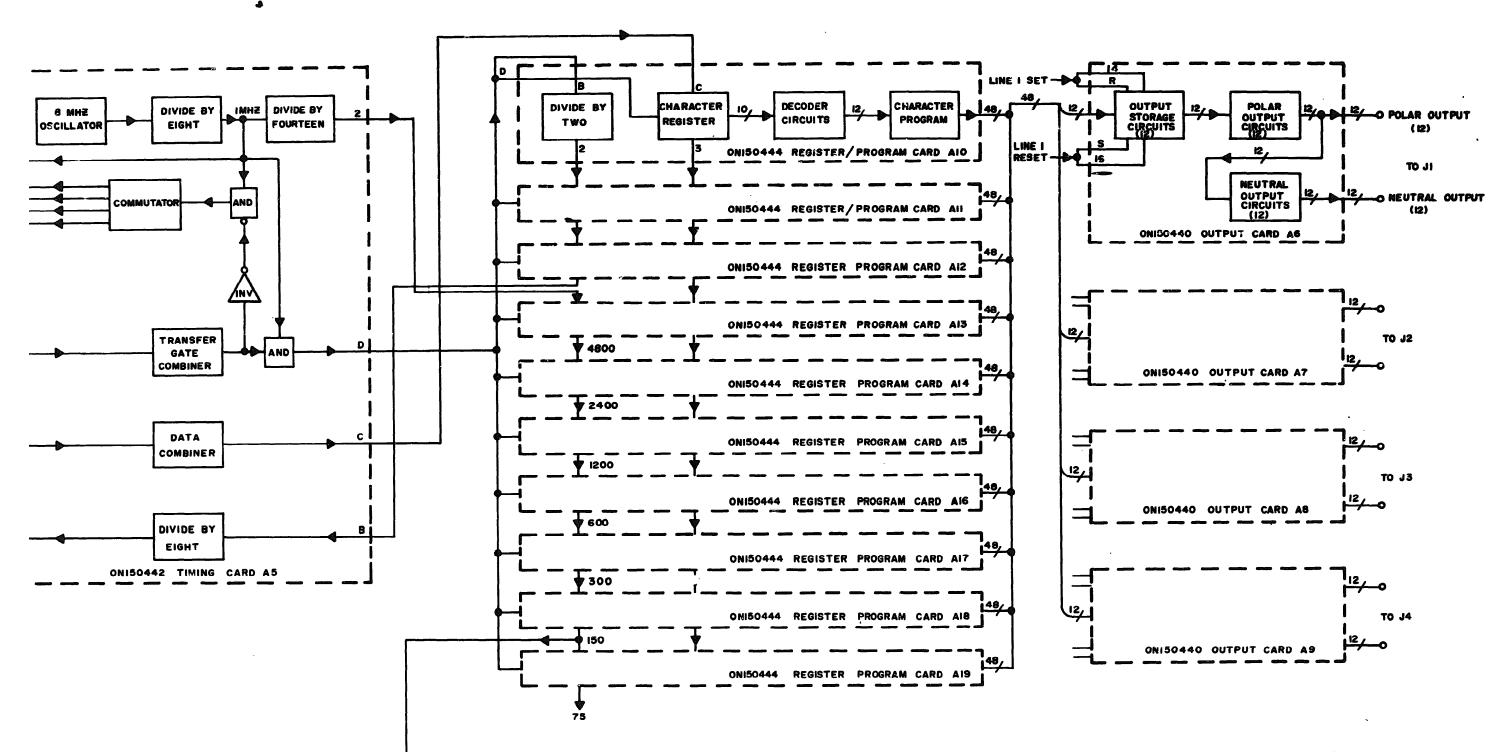
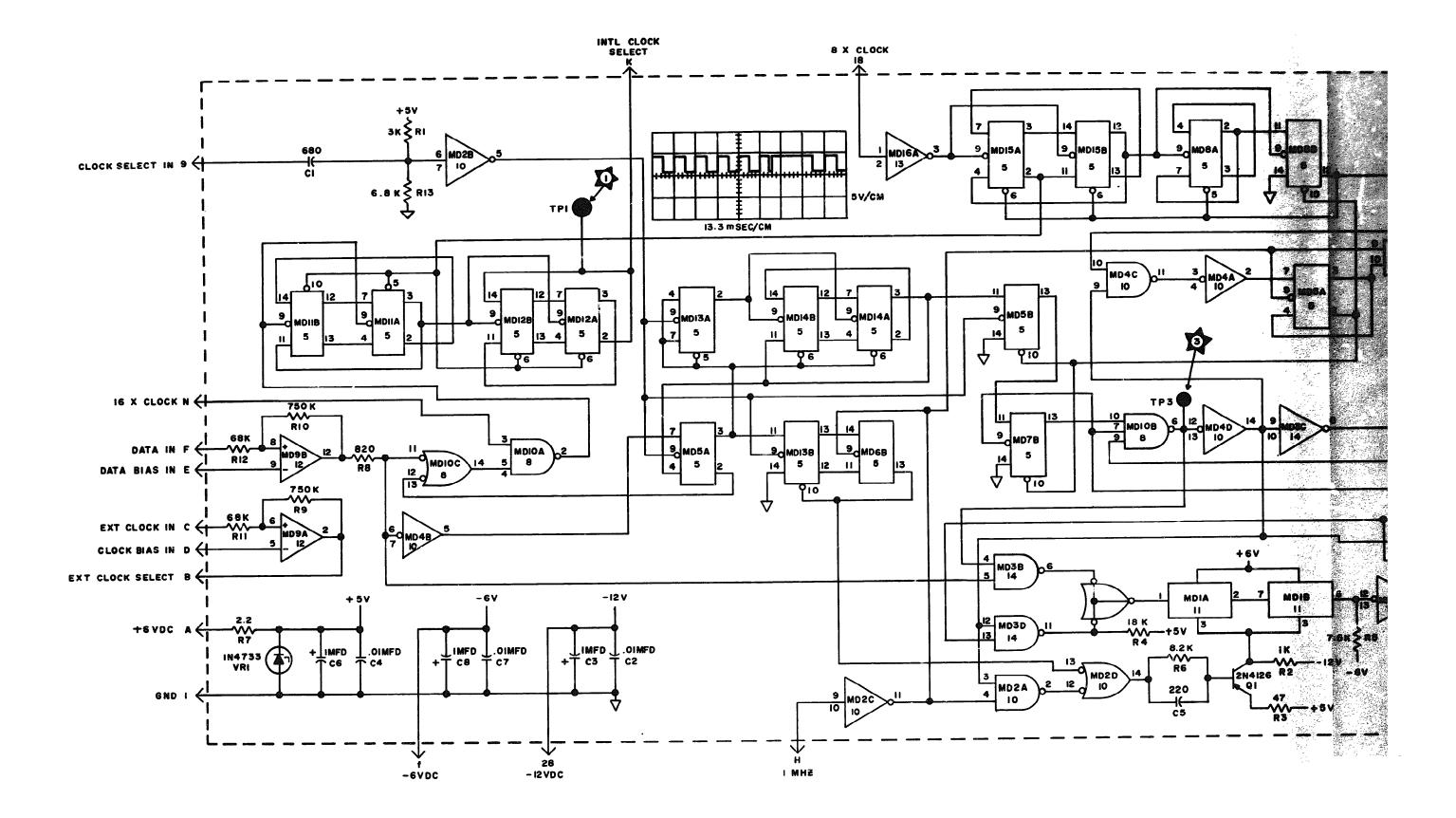
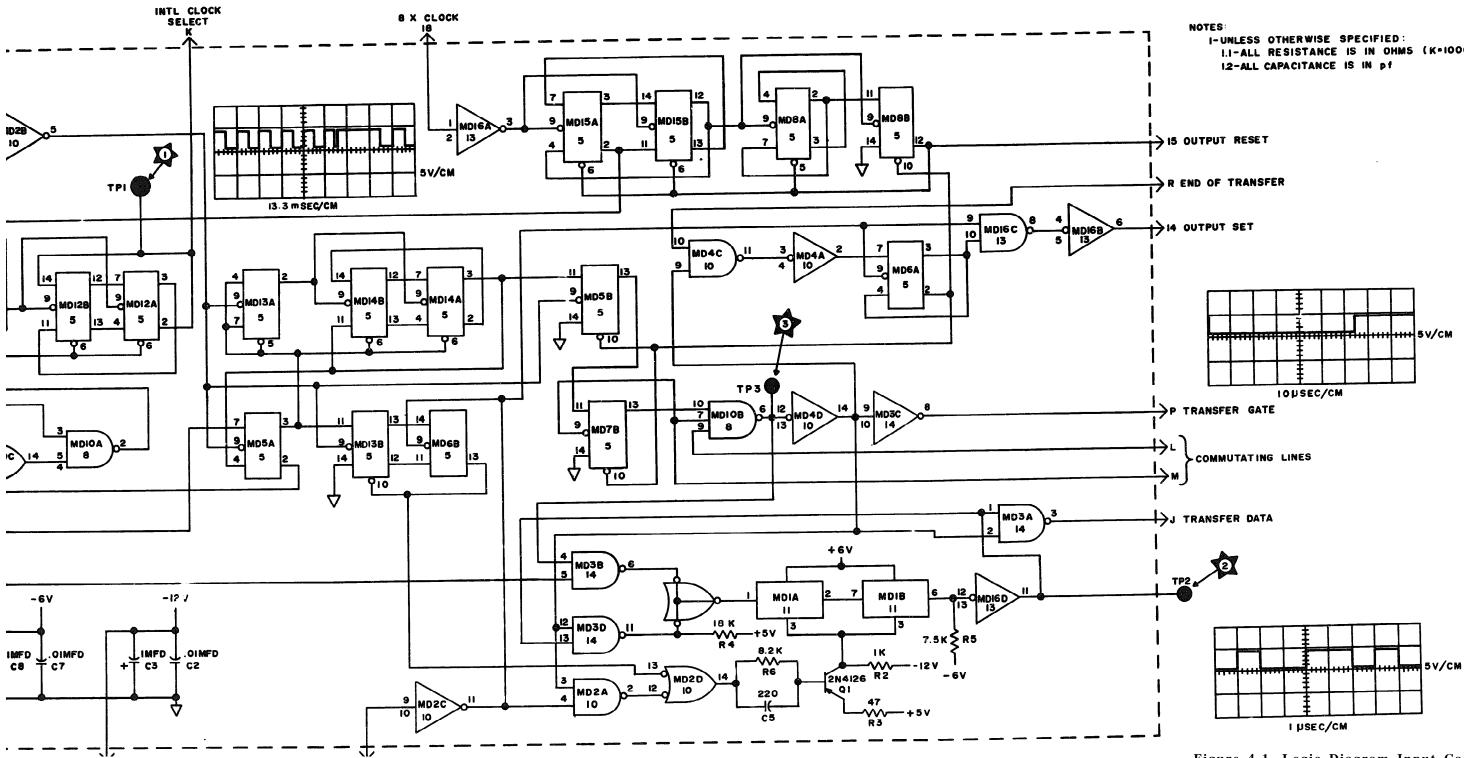
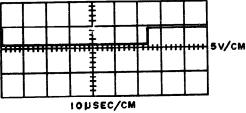


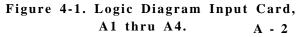
Figure 1-3. - System Block Diagram A - 1

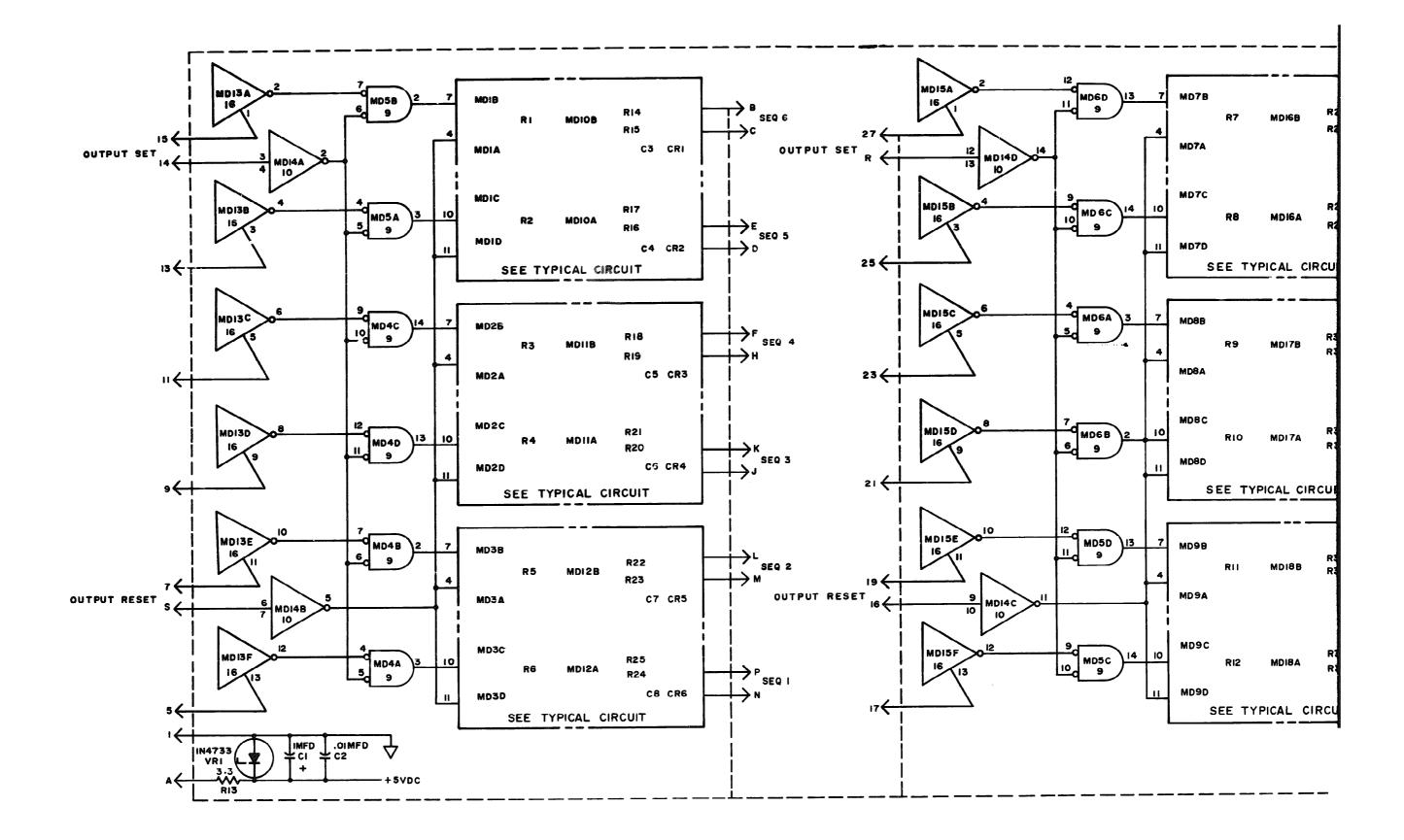


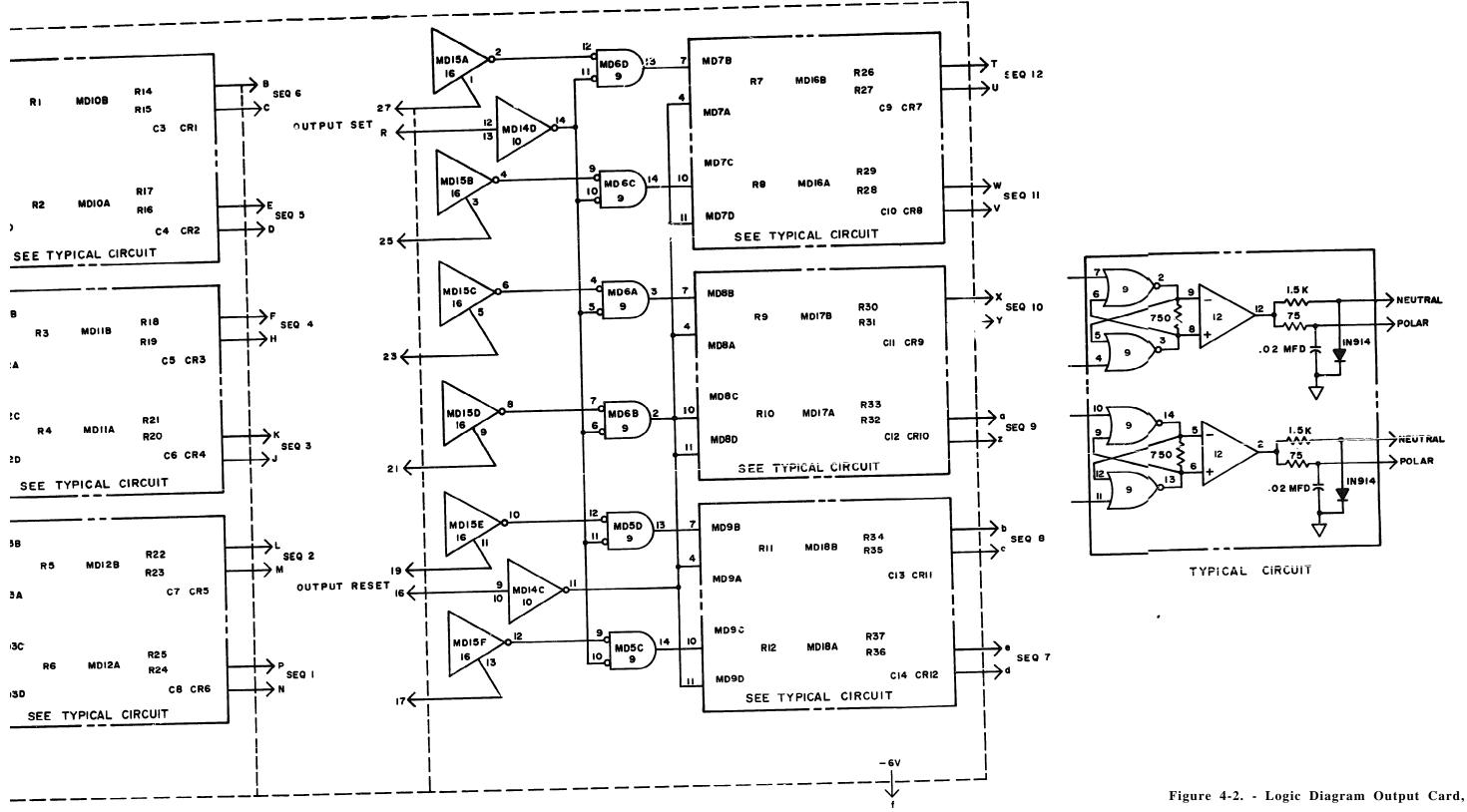


I.I-ALL RESISTANCE IS IN OHMS (K+1000)

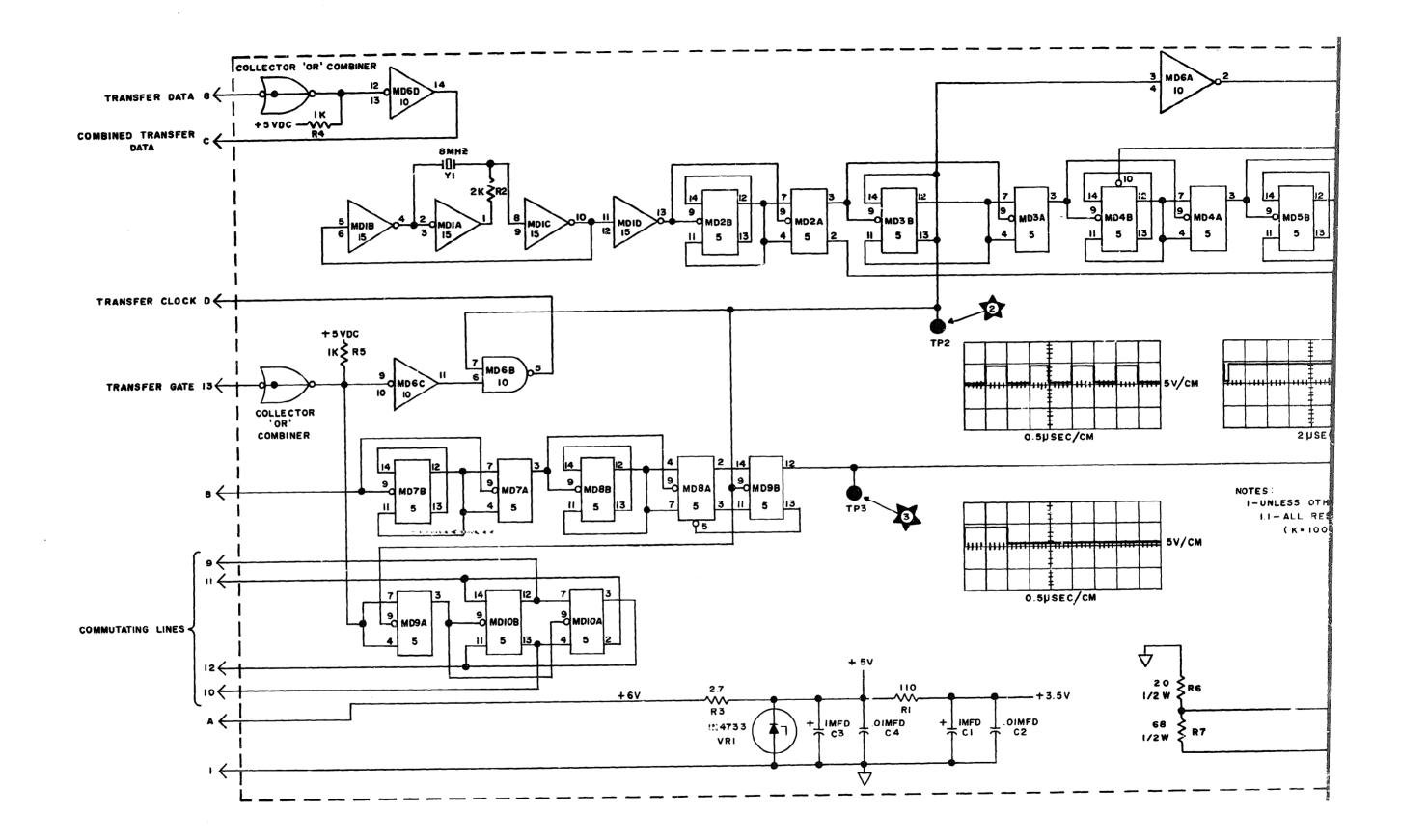


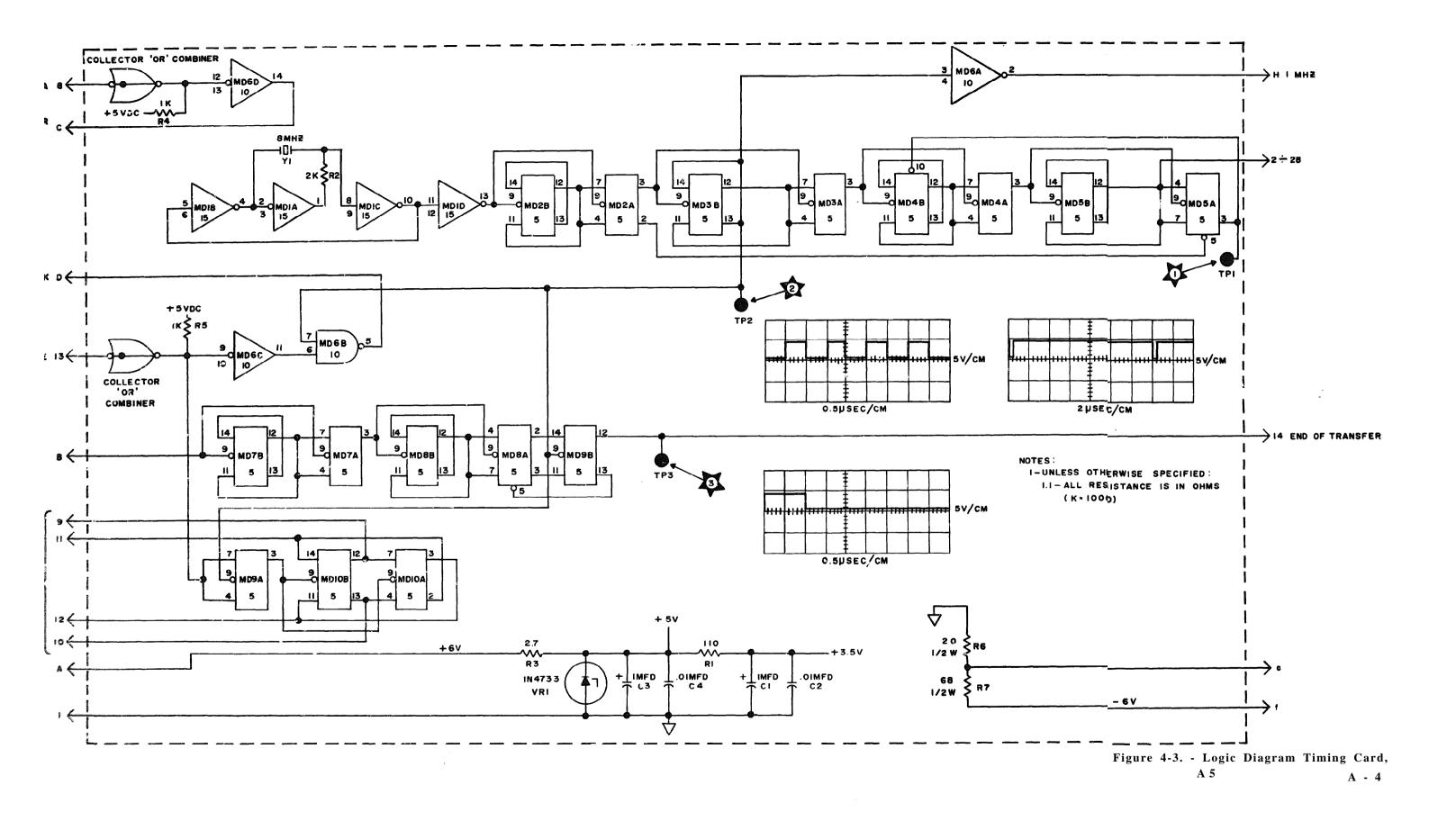


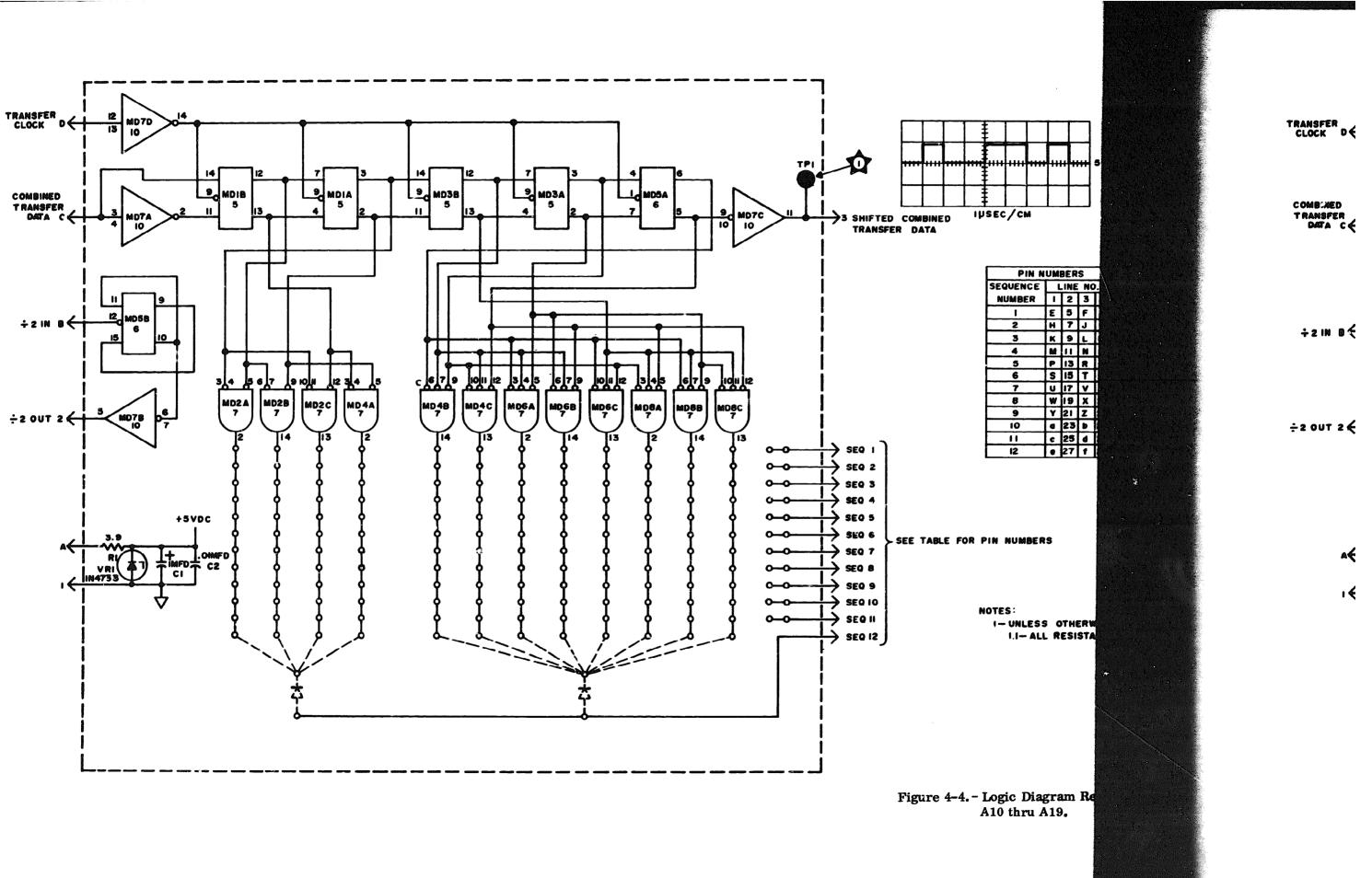


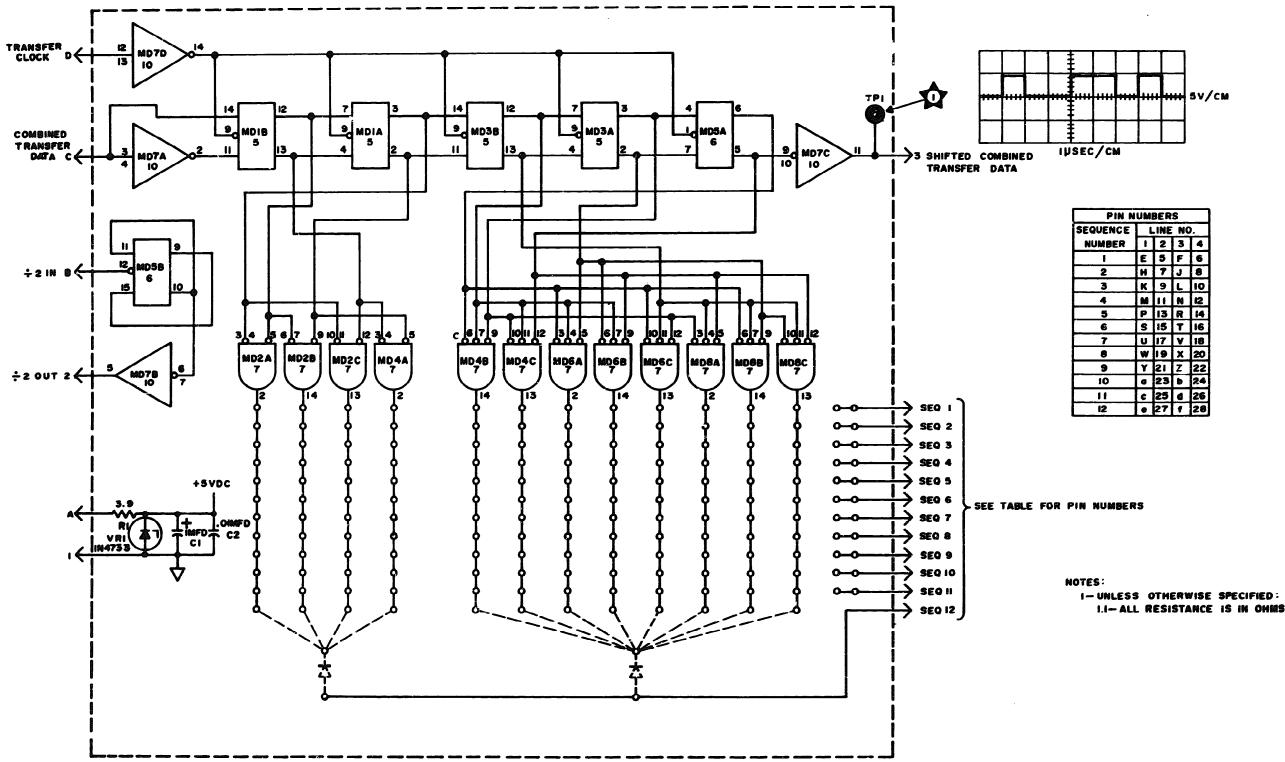


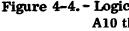
A6 thru A9. A - 3











PIN N	PIN NUMBERS					
ENCE	L	INE	NO),		
IBER	1	2	3	4		
1	Ε	5	F	6		
2	H	7	J	8		
3	K	9	L	10		
4	M	11	N	12		
5	P	13	R	14		
6	5	15	T	16		
7	U	17	۷	18		
B	W	19	X	20		
9	Y	21	Z	22		
0	٩	23	b	24		
1	C	25	٩	26		
2	•	27	1	28		

I.I-ALL RESISTANCE IS IN OHMS (K-1000)

Figure 4-4. - Logic Diagram Register/Program Card, A10 thru A19. A-5

J5-D, XA2-28 28 1 XA2-1	XA-28,XA3-28 28 1 XAI-1,XA3-1	<u>J2-28, J4-28 28 f XA2-f, XA4-f</u>	<u>XA3-28 28 f XA3-f, XA5-f</u>	28 f XA4-f,XA6-f
270	27 e 26 d	27 e	27 e	
	26 d	25 c		25 (J4 - 39
25 c	24 b	24 b 23 a 22 Z 21 Y	24b	24 b 23 a
23 g	23 0		230	23 a
23 d 222	22Z 21 Y		22Z	
2IY			21 Y 20 X	20 x
21 Y 20 X 19 W	20 x	20 x		[9]W
JI-47 IB V	J2-47 18V		<u>J4-47 18 V</u>	
I7 U		170		
	XA7-5	XA8-S 15 5	XA9-S 15 S	
	1515			
XAG-R I4 R XA2-R	XAT-R IA R XAI-R, XA3-R	XA8-R XA2-R,XA4-R	XA9-R 14 R XA3-R, XA5-14 14 R XA3-P, XA5-13	XA4-R 14R
13 P XA2-P	13 P XAI-N, XA3-N	13P YA2-N XA4-N	13 P YAZ-N YAIR-2	XA4-P XA4-M 12 N
			12 N XA3-M,XA5-12	
		IOI AAC L, AAS S	101 XAI*L, XA5-10	
JI-44 <u>9 K vice</u>	J2-44 IOL J2-45	<u>J3-44</u> Q K J3-45	J4-44 J4-45 9 K XA3-J,XA5-8	19 IK
0 1 XA2-J	9 K 52 43 9 K 32 43 1 K 33	B J VAC-IL VAC-IL	J VAZ JU VAS-U	XA4~J8 J 7 H
7 H AA2 H	7 1 12-28		7 H 7 J - 28	
011 11-20	6 F J2-38	6 F J3-38 5 E J3-41	6 F J4-28 5 E J4-38	5E XAN-D
	<u>JE J2-41</u>		40 14-20	XA5-C, XAIO-C 4 D XA5-3
		<u> </u>	<u>3 C J4-43</u>	XAI3-B 2 B XAI2-2
<u>3 C JI-30</u> <u>3 C JI-43</u> <u>J5-E,XA2-1 L B XA2-A</u>	XAI-1,XA3-1 Z B XAI-A,XA3-A	XA2-1 XA4-1 A XA2-A, XA4-A	XA3-1,XA5-1 2 B XA3-A.XA5-A	XA4-1 XA6-1 2 B XA4-A, XA6-A
XAI	XA2	XA3	XA4	XA5
VAID-00 VAID-00			XAI3-28, XAI5-28 - XAI3-f, XAI5-f	XA14-28,XA16-28 291+ XA14-1,XA16-1
VAID-00 VAID-00	XAII-29, XAI3-28 28 1 XAII-f, XAI3-f XAII-27, XAI3-27 A71, XAII-e, XAI3-e	XA12-28, XA14-28, 28 1 XA12-1, XA14-1 XA12-27, XA14-27, 28 1 XA12-6, XA14-6	XAI3-28, XAI5-28 - XAI3-f, XAI5-f	XA14-28, XA16-28 28 1 XA14-1, XA16-1 XA14-27, XA16-27 27 XA14-e, XA16-e
VAID-00 VAID-00	XAII-29, XAI3-28 28 1 XAII-f, XAI3-f XAII-27, XAI3-27 A71, XAII-e, XAI3-e	XA12-28, XA14-28, 28 1 XA12-1, XA14-1 XA12-27, XA14-27, 28 1 XA12-6, XA14-6	XAI3-28, XAI5-28 28 1 XAI3-f, XAI5-f XAI3-27, XAI5-27 27 e XAI3-26, XAI5-26 27 e XAI3-e, XAI5-e XAI3-26, XAI5-26 27 e XAI3-d, XAI5-d	XAI4-28, XAI6-28 XAI4-27, XAI6-27 XAI4-27, XAI6-27 XAI4-26, XAI6-27 XAI4-26, XAI6-27 XAI4-26, XAI6-26 XAI4-26, XAI6-26 XAI4-26, XAI6-26 XAI4-26, XAI6-26 XAI4-26, XAI6-26 XAI4-26, XAI6-26 XAI4-26, XAI6-27 XAI4-26, XAI6-27 XAI4-26, XAI6-27 XAI4-27, XAI6-27 27 e XAI4-27, XAI6-27 28 f XAI4-27, XAI6-27 27 e XAI4-27, XAI6-27 28 f XAI4-27, XAI6-27 27 e XAI4-27, XAI6-27 27 e XII-27, XAI6-27
VAID-00 VAID-00	XAII-28, XAI3-28 28 f XAII-f, XAI3-f XAII-27, XAI3-27 27 e XAII-e, XAI3-e XAII-26, XAI3-26 26 d XAII-d, XAI3-d XAII-25, XAI3-26 26 d XAII-c, XAI3-c	XAI2-28, XAI4-28 XAI2-27, XAI4-27 XAI2-27, XAI4-27 XAI2-27, XAI4-27 XAI2-26, XAI4-26 XAI2-26, XAI4-26 XAI2-25, XAI4-25 XAI2-24, XAI4-25 XAI2-24, XAI4-25 XAI2-24, XAI4-25 XAI2-24, XAI4-25	XAI3-28, XAI5-28 XAI3-27, XAI5-27 XAI3-27, XAI5-27 XAI3-26, XAI5-27 XAI3-26, XAI5-26 XAI3-25, XAI5-25 26 4 XAI3-2, XAI5-2 XAI3-25, XAI5-25 26 4 XAI3-2, XAI5-2	XA14-28, XA16-28 XA14-27, XA16-27 XA14-27, XA16-27 XA14-26, XA16-26 XA14-26, XA16-26 XA14-25, XA16-25 ZA14-25, XA16-25 ZA14-24, XA16-24 XA14-24, XA16-24 XA14-2, br>XA14-24 XA
VAID-00 VAID-00	XAII-28, XAI3-28 28 f XAII-f, XAI3-f XAII-27, XAI3-27 27 e XAII-e, XAI3-e XAII-26, XAI3-26 26 d XAII-d, XAI3-d XAII-25, XAI3-26 26 d XAII-c, XAI3-c	XA12-28, XA14-28 XA12-27, XA14-27 XA12-27, XA14-27 XA12-26, XA14-26 XA12-25, XA14-26 XA12-25, XA14-26 XA12-25, XA14-26 XA12-25, XA14-26 XA12-24, XA14-26 XA12-26, XA14-26 XA14-2	XAI3-28, XAI5-28 XAI3-27, XAI5-27 XAI3-27, XAI5-27 XAI3-26, XAI5-27 XAI3-26, XAI5-26 XAI3-26, XAI5-26 XAI3-26, XAI5-26 XAI3-26, XAI5-26 XAI3-24, XAI5-24 XAI3-24, XAI5-24 XAI3-23, XAI5-23 XAI3-23, XAI5-23, XAI5-23 XAI3-23, XAI5-23, XAI5-2	XAI4-28, XAI6-28 XAI4-27, XAI6-27 XAI4-27, XAI6-27 XAI4-26, XAI6-27 XAI4-26, XAI6-26 ZAI4-25, XAI6-26 XAI4-25, XAI6-25 XAI4-24, XAI6-24 XAI4-23, XAI6-23 XAI4-23, XAI6-23 ZAI6-23 ZAI6-23, XAI6-23 ZAI6-23, XAI6-23 ZAI6-23, XAI6-23
XAIO-28, XAI2-28 28 f XAIO-1, XAI2-1 XAIO-27, XAI2-27 27 e XAIO-e, XA 2-e XAIO-26, XAI2-26 26 d XAIO-e, XAI2-d XAIO-25, XAI2-26 25 c XAIO-c, XAI2-c XAIO-24, XAI2-24 24 b XAIO-c, XAI2-b XAIO-23, XAI2-23 23 d XAIO-c, XAI2-c XAIO-22, XAI2-23 23 d XAIO-2, XAI2-2	XAII-28, XAI3-28 28 f XAII-f, XAI3-f XAII-27, XAI3-27 27 e XAII-e, XAI3-e XAII-26, XAI3-26 26 d XAII-d, XAI3-d XAII-25, XAI3-26 26 d XAII-c, XAI3-c	XA12-28, XA14-28, 28 f XA12-f, XA14- f XA12-27, XA14-27, 27 e XA12-e, XA14- e XA12-26, XA14-26, 26 f XA12-d, XA14-d XA12-25, XA14-26, 25 c XA12-c, XA14- c XA12-24, XA14-22, 25 c XA12-b, XA14-b XA12-23, XA14-22, 24 b XA12-0, XA14-0 XA12-23, XA14-22, 23 d XA12-2, XA14-2	XAI3-28, XAI5-28 XAI3-27, XAI5-27 XAI3-27, XAI5-27 XAI3-26, XAI5-27 XAI3-26, XAI5-26 XAI3-26, XAI5-26 XAI3-26, XAI5-26 XAI3-26, XAI5-26 XAI3-24, XAI5-24 XAI3-24, XAI5-24 XAI3-23, XAI5-23 XAI3-23, XAI5-23 XAI5-23, XAI5-23,	XAI4-28, XAI6-28 XAI4-27, XAI6-27 XAI4-27, XAI6-27 XAI4-26, XAI6-27 XAI4-26, XAI6-26 XAI4-25, XAI6-25 XAI4-25, XAI6-25 XAI4-25, XAI6-25 XAI4-23, XAI6-24 XAI4-23, XAI6-23 XAI4-22, XAI6-22 XAI4-2, XAI6-2 XAI4-2,
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T XAI2-8, XAI4 - e XAI2-0, XAI4-d XAI2-0, XAI4-d XAI2-c, XAI4-c XAI2-c, XAI4-c XAI2-0, XAI4-c XAI2-0, XAI4-c XAI2-0, XAI4-c XAI2-7, XAI4-7 XAI2-7, XA	$\begin{array}{c} \underline{XAI3}{28}, \underline{XAI5}{28} = 1 \\ \underline{XAI3}{27}, \underline{XAI5}{27} = 228 = 1 \\ \underline{XAI3}{27}, \underline{XAI5}{27} = 278 \\ XAI3$	$\begin{array}{c} \underline{xa14-28, xa15-28} \\ \underline{xa14-28, xa15-27} \\ \underline{xa14-26, xa16-27} \\ \underline{xa14-26, xa16-25} \\ \underline{xa14-26, xa16-25} \\ \underline{xa14-26, xa16-25} \\ \underline{xa14-25, xa16-25} \\ \underline{xa14-22, xa16-22} \\ \underline{xa14-22, xa16-21} \\ xa14-22, xa16$	XAIS-27, XAI7-27 27 e XAIS-4, XAI7-6 XAIS-26, XAI7-26 26 d XAIS-2, XAI7-7 XAIS-25, XAI7-26 26 d XAIS-2, XAI7-7 XAIS-24, XAI7-24 25 c YAIS-5, XAI7-7 XAIS-23, XAI7-23 24 b XAIS-5, XAI7-7 XAIS-22, XAI7-23 2 XAIS-5, XAI7-7 a XAIS-22, XAI7-21 21 Y XAIS-7, XAI7-7 XAIS-22, XAI7-22 22 Z XAIS-7, XAI7-7 XAIS-20, XAI7-20 20 X XAIS-7, XAI7-7 XAIS-20, XAI7-20 20 X XAIS-7, XAI7-7 XAIS-19, XAI7-19 19 W XAIS-8, XAI7-7 XAIS-19, XAI7-19 19 W XAIS-10, XAI7-10 XAIS-16, XAI7-16 18 W XAIS-10, XAI7-17 XAIS-16, XAI7-16 16 T XAIS-17, XAI7-7 XAIS-13, XAI7-13 13 P XAIS-18, XAI7-8 XAIS-14, XAI7-14 4 R XAIS-17, XAI7-7 XAIS-13, XAI7-13 13 P XAIS-17, XAI7-7 XAIS-13, XAI7-14 IA <td>XAIG-26,XAB262 ZAIG-2,XAB-2 XAIG-25,XAB252 ZG XAIG-2,XAB-2 XAIG-24,XAB-24 ZG XAIG-2,XAB-26 XAIG-24,XAB-24 ZG XAIG-2,XAB-26 XAIG-24,XAB-24 ZG XAIG-2,XAB-26 XAIG-22,XAB22 ZG XAIG-2,XAB-26 XAIG-22,XAB22 ZG XAIG-2,XAB-27 XAIG-22,XAB22 ZZ XAIG-2,XAB-27 XAIG-22,XAB22 ZZ XAIG-2,XAB-7 XAIG-20,XAB-20 ZI Y XAIG-20,XAB-20 ZI Y XAIG-20,XAB-20 ZO XAIG-7,XAB-7 XAIG-10,XAB-10 ID W XAIG-7,XAB-7 XAIG-17,XAIB-17 IS Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IT Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IF Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IF Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IF Y XAIG-7,XAIB-70 XAIG-17,XAIB-16 IF XAIG-7,XAIB-70 XAIG-7,XAIB-70 XAIG-17,XAIB-17 IS Y XAIG-7,XAIB-70</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td> <td>XAI8-26 26 d XAI8-0 XAI8-25 25 c XAI8-6 XAI8-23 23 a XAI8-6 XAI8-23 23 a XAI8-7 XAI8-21 22 Z XAI8-7 XAI8-22 22 Z XAI8-7 XAI8-20 21 Y XAI8-7 XAI8-20 21 Y XAI8-7 XAI8-12 22 Z XAI8-7 XAI8-19 19 W XAI8-W XAI8-19 19 W XAI8-7 XAI8-16 16 T XAI8-7 XAI8-15 15 S XAI8-7 XAI8-14 14 R XAI8-8 XAI8-13 13 P XAI8-8 XAI8-10 11 M XAI8-7 XAI8-7 7 H XAI8-7 XAI8-7 7 H XAI8-7 XAI8-7 7 H XAI8-7 XAI8-6 6 F XAI8-7 XAI8-7 5 F XAI8-7</td> <td></td>	XAIG-26,XAB262 ZAIG-2,XAB-2 XAIG-25,XAB252 ZG XAIG-2,XAB-2 XAIG-24,XAB-24 ZG XAIG-2,XAB-26 XAIG-24,XAB-24 ZG XAIG-2,XAB-26 XAIG-24,XAB-24 ZG XAIG-2,XAB-26 XAIG-22,XAB22 ZG XAIG-2,XAB-26 XAIG-22,XAB22 ZG XAIG-2,XAB-27 XAIG-22,XAB22 ZZ XAIG-2,XAB-27 XAIG-22,XAB22 ZZ XAIG-2,XAB-7 XAIG-20,XAB-20 ZI Y XAIG-20,XAB-20 ZI Y XAIG-20,XAB-20 ZO XAIG-7,XAB-7 XAIG-10,XAB-10 ID W XAIG-7,XAB-7 XAIG-17,XAIB-17 IS Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IT Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IF Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IF Y XAIG-10,XAB-70 XAIG-17,XAIB-16 IF Y XAIG-7,XAIB-70 XAIG-17,XAIB-16 IF XAIG-7,XAIB-70 XAIG-7,XAIB-70 XAIG-17,XAIB-17 IS Y XAIG-7,XAIB-70	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	XAI8-26 26 d XAI8-0 XAI8-25 25 c XAI8-6 XAI8-23 23 a XAI8-6 XAI8-23 23 a XAI8-7 XAI8-21 22 Z XAI8-7 XAI8-22 22 Z XAI8-7 XAI8-20 21 Y XAI8-7 XAI8-20 21 Y XAI8-7 XAI8-12 22 Z XAI8-7 XAI8-19 19 W XAI8-W XAI8-19 19 W XAI8-7 XAI8-16 16 T XAI8-7 XAI8-15 15 S XAI8-7 XAI8-14 14 R XAI8-8 XAI8-13 13 P XAI8-8 XAI8-10 11 M XAI8-7 XAI8-7 7 H XAI8-7 XAI8-7 7 H XAI8-7 XAI8-7 7 H XAI8-7 XAI8-6 6 F XAI8-7 XAI8-7 5 F XAI8-7	

Figure 6-1.-Wiring Diagram Motherboard

XAI-D	4.		
JI-70, JI-37	41		
J2-42, JI-42	40		
XAI-E	<u>39</u>		
JI-40, JI-31	38		
01 40,01 0.	37		
	36		
	35		
	34		
		74	
11-77 11-20	32	73	
<u>JI-37,J1-29</u>	31	72	
XAI-C	30		10-00 11-40
JI-31, XA2-1	29	70	J2-29 , JI-40
XAI-F	28	67	
<u>XA6-T</u>	27	66	
XAG-U	26	65	·
XA6-W	25	64	
XAG-V		63	
<u>XA6-X</u>	-	62	
<u>XA6-Y</u>	22	60	
XA6-a	<u> </u>	59	
<u>XA6-Z</u>		58	
XA6-b		57	
XA6-c		100	
XAG-e	16	55	J2-55
XAG-d	F	54	02 04
<u>XA6-B</u>	-	53	<u>J2-53</u>
XA6 - C	_	52	J2-52
XA6-E		51	J2-51
XAG-D		50	J2-50
XA6-F	<u> </u>		1./~43
XA6-H		49	7
XA6-K	틛	48	4 X A I * 1 M
XAG-J	ļ	47	4
XAG-L	15	-	1 X Δ Ι ° K
XAG-M	14	45	XAI-9
XA6-P	13	44	XAI-B
XAG-N	2	43	JI-39
	1	42	

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XA2 - D	41		
<u>J2-70, J2-37</u>	40	82	
J3-42, J2-42	_	80	
XA2-E			
J2-40, J2-31		79 70	
		78	
	-	77	
	_	76	
		75	
		74	
12-37 12-29		73	
<u>J2-37, J2-29</u>	31	72	
XA2-C	30	71	17-00 10-(0
JI-70, J2-31, XA3-1	29	70	J3-29 , J2-40
XA2-F	-	67	
<u>XA7-T</u>	_	66	
<u>XA7-U</u>		65	
XA7-W	<u> </u>	64	
XA7-V	-	63	
XA7-X		62	
XA7-Y	<u> </u>		
XA7-a		60	
XA7-Z		59	
XA7-b		58	
XA7-c		57	
XA7-e		56	J3-55, JI-55
XA7-d		55	13-54 11-54
XA7-B		54	13-53 1-53
XA7-C	14	53	J3-52, JI-52
	13	52	J3-51, J1-51
<u>XA7-E</u>	12	51	13.50 11-50
<u>XA7-D</u>	11	50	
<u>XA7-F</u>	10	49	1.15-49.11-49
<u>XA7-H</u>	8	48	
<u>XA7-K</u>	7		1 X 4 2 - 18
<u>XA7-J</u>	5	46	
XA7-L	Ĭă	45	XA2-K
XA7-M	3		XA2-9
XA7-P		43	XA2-B
XA7-N		170	J2-39, J1-39
	Ľ	142	

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V47 D			
<u>XA3-D</u>	41		
<u>J3-70,J3-37</u>	40	82	
J4-42,J3-42	39	80	
<u>XA3-E</u>	38	79	
<u>J3-40,J3-31</u>		78	
	36	77	
		76	
		75	,
	33	74	
		73	
<u>J3-37, J3-29</u>		72	
<u>ХАЗ-С</u>		71	
J <u>2-70,J3-31,XA4-1</u>		70	J4-29,
<u>XA3-F</u>		67	
<u>XA8-T</u>		66	
XA8-U		65	
<u>XA8-W</u>		64	
XA8-V		63	
<u>XA8-X</u>		62	
XA8-Y	_	60	
<u>XA8-a</u>		59	
<u>XA8-Z</u>	_	58	_
XA8-b	the second second second second second second second second second second second second second second second se	57	
XA8-c		56	
ХА8-е	-	55	J4-55,J
XA8-d		55	J4-54,J
<u>XA8-B</u>	_	53	J4-53,J
XA8-C		52	04 52,0
<u>XA8-E</u>		51	J4-51 , (
XA8-D	TT	50	J4-50,
<u>XA8-F</u>	lio		<u>J4-49,</u>
<u>XA8-H</u>	8	1	
<u>XA8-K</u>	17	47	XA3-18
XA8-J	5	1	
XA8-L	4	15	1XA3-K
<u>XA8-M</u>	3	100	<u>XA3-9</u>
XAS-P		43	XA3-B
Y 48-N	F	42	J3-39,
	Ľ	1.2	

J3

		1
XA4-D	41	
<u>J4-70, J4-37</u>	40	82
XA5-c,J4-42	39	80
XA4-E	76	70
<u>J4-40, J4-31</u>	37	78
	36	77
	35	76
	34	76
	33	72
	32	73
<u>J4-37, J4-29</u>	31	72
<u>XA4-C</u>	30	77
J3 <u>-70,J4-31,XA5-1</u>	29	70
<u>ХА4-F</u> ХА9-Т	28	67
	27	66
<u>XA9-U</u>	26	65
<u>XA9-W</u>	25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<u>XA9-V</u>	54	63
<u>X-9-X</u>	23	62
<u>XA9-Y</u>	22	60
<u>XA9- a</u>	5	59
<u>XA9-Z</u>	50	58
XA9-b	18	57
<u>XA9-c</u>	17	56
<u>XA9-e</u>	16	55
XA9- d		55
XA9-B	14	
XA9-C	and the second second	52
<u>XA9-E</u>	-	51
XA9-D	111	50
XA9-F	10	49 48 47 46
ХА9-Н	8	48
<u>XA9-K</u>	17	47
XA9-J	5	46
X49-L XA9-M	- 2	
<u>XA9-M</u>	-3	44
XA9-P	12	44 43
<u>XA9-N</u>	T	42
		14
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,J2-55 ,J2-54 ,J2-54 ,J2-53 ,J2-52 ,J2-51 ,J2-50 ,J2-50 ,J2-49 8

3 ,J2-39

¥42-D			
XA2-D	41		
<u>J2-70, J2-37</u>	40	82	
J3-42, J2-42	39	80	
<u>XA2-E</u>	38	79	·
<u>J2-40, J2-31</u>		78	
		77	
i		76	
	_	75	
		74	·
	-		
J2-37, J2-29	20 million	73	
XA2-C		72	
JI-70, J2-31, XA3-1	30		J3-29 , J2-40
	29	70	
XA2-F	28	67	
<u>XA7-T</u>	27	66	
<u>XA7-U</u>	26	65	
<u>XA7-W</u>	25	64	
XA7-V		63	
<u>XA7-X</u>	23	62	
<u>XA7-Y</u>		60	
XA7-a		59	
XA7-Z	-	58	
XA7-b		57	
XA7-c		56	
XA7-e	-	distant and	J3-55, JI-55
XA7-d		55	J3-54, JI-54
XA7-B	-	54	13-53 11-53
XA7-C	No. of Concession, Name	53	J3-52, JI-52
XA7-E		52	J3-51, J1-51
XA7-D		51	J3-50.11-50
	11	50	J3-49, JI-49
XA7-F	10	49	0.5 73.01 73
<u>ХА7-Н</u>	8	48	VA2-16
XA7-K	7	47	XA2-18
<u>XA7-J</u>	-5	46	
X47-L	4	45	XA2-K
XA7-M	13		XA2-9
<u>XA7-P</u>	12	43	XA2-B
<u>XA7-N</u>	뉴	42	1.12-30 11-39
	Ľ	1-12)

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XA3-D			
<u>J3-70,J3-37</u>	41		
<u>J4-42,J3-42</u>	40		
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XA3-E		79	
<u> J3-40, J3-31</u>	37	78	
	36	77	
· <u></u>	35	76	
	34	75	
	33	74	
	32	73	
<u> J3-37, J3-29</u>	31	72	
<u>XA3-C</u>	30	71	
J <u>2-70,J3-31,XA4-1</u>	29	70	J4-29, J3-40
<u>XA3-F</u>		67	
<u>XA8-T</u>	27	66	
<u>XA8-U</u>	the second second second second second second second second second second second second second second second se	65	
<u>XA8-W</u>		64	
<u>XA8-V</u>	Co. Allowed and the	63	
<u>XA8-X</u>	-	62	
<u>XA8-Y</u>	-	60	
XA8-a	-	59	
<u>XA8-Z</u>	-	58	
<u>XA8-b</u>	-	57	
<u>XA8-c</u>		56	
<u>XA8-e</u>	-	55	J4-55,J2-55
XA8-d		55	<u>J4-54,J2-54</u>
<u>XA8-B</u>		53	1 14-23.16-23
XA8-C		52	1 14・カン 12・カン
<u>XA8-E</u>	the second second second second second second second second second second second second second second second se	51	J4-51, J2-51
XA8-D		50	<u>J4-50, J2-50</u>
<u>XA8-F</u>		49	
ХА8-Н		Î	1
XA8-K	隆	48	XA3-18
XA8-J	Ķ	47	
XA8-L	₽	46 45	
XA8-M		43	YA3-9
XA8-P	-	44	VA3-6
X48- N	<mark>]</mark> 2		113-30 12-30
	-	42	

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XA4-D	41					
<u>J4-70, J4-37</u>	40	82				
XA5-c,J4-42	39	80				
ХА4-Е	38	79				
IA_AA (A_Z))		78				
	36	77				
	-	76				
	-	75				
		74				
		73				
		72				
<u>XA4-C</u>		71				
J3-70, J4-31, XA5-1		70	J5-E,J4-40			
<u>XA4-F</u>	-	67				
<u>XA9-T</u>		66				
XA9-U		65				
<u>XA9-W</u>	-	64				
<u>XA9-V</u>		63				
<u>XA9-X</u>	distant.	62				
<u>XA9-Y</u>		60				
XA9- a		59				
<u>XA9-Z</u>	_	58				
Хд9-ь	-	57				
<u>XA9-c</u>	نسره مسا	56				
<u> ХАо-е</u>		55	XAI9-2,J3-55			
<u>XA9- d</u>	2000	55	XA19-B.J3-54			
<u>XA9-B</u>			XA17-2, J3-53			
<u>xa9-c</u>	13	52	XAI6-2,J3-2			
<u>XA9-E</u>	1	51	XAI5-2, J3-51			
<u>XA9-D</u>		50	XA14-2, 13-50			
XA9-F	And in case of the local division of the loc	49	XAI3-2,J3-49			
<u>хаэ-н</u>	18					
<u>XA9-K</u>		47	XA3-18			
<u>XA9-J</u>	15	يت شط				
XA9-L	4	45	XA4-K			
<u>XA9-M</u>	3	44	XA4-9			
XA9-P	12	43	XA4-B			
<u>XA9-N</u>	F	42	<u> 14-39,13-39</u>			
			1			
ن 4						

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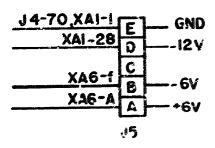
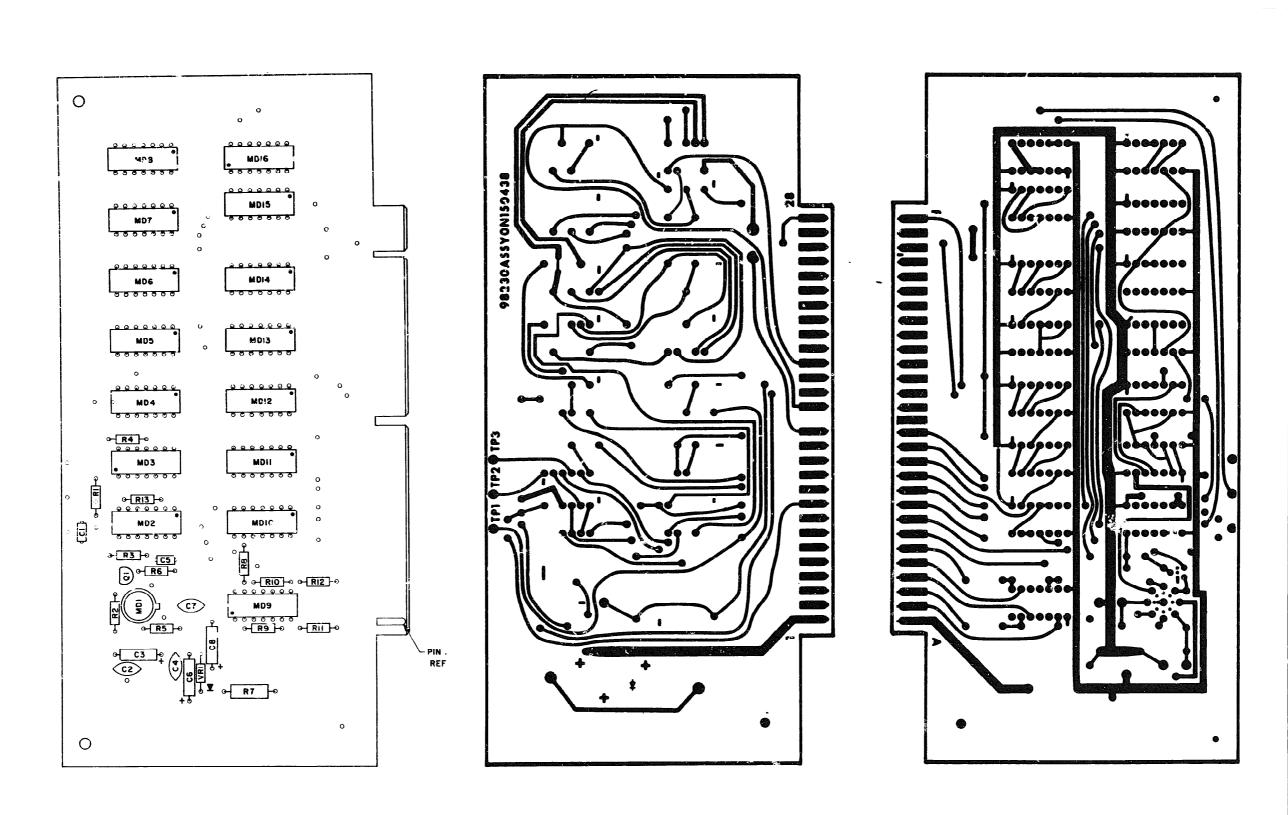


Figure 6-2. - Wiring Diagram Input/Output Connectors A-7





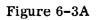


Figure 6-3B

Figure 6-3C

Figure 6-3. - Wiring Diagram P.W. Board, Input Card, A1 thru A4, P/N ON15Ø438



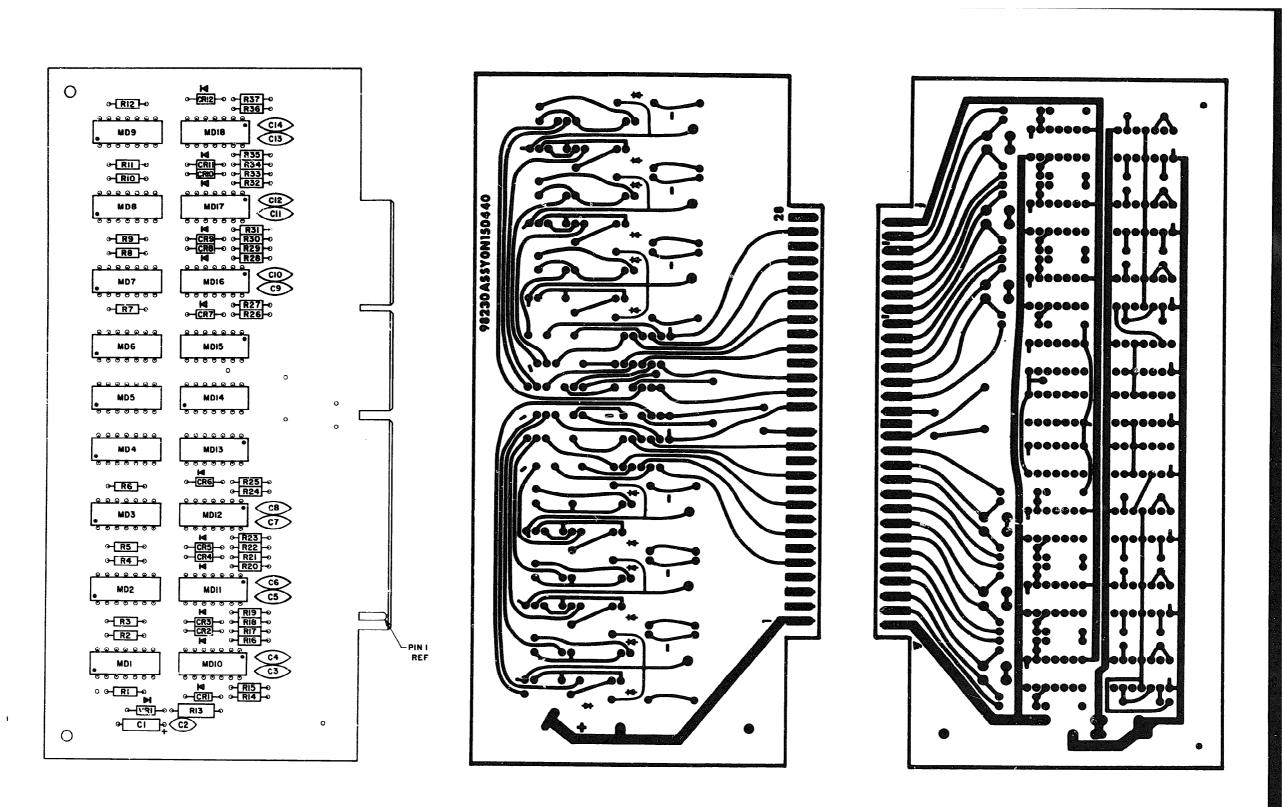
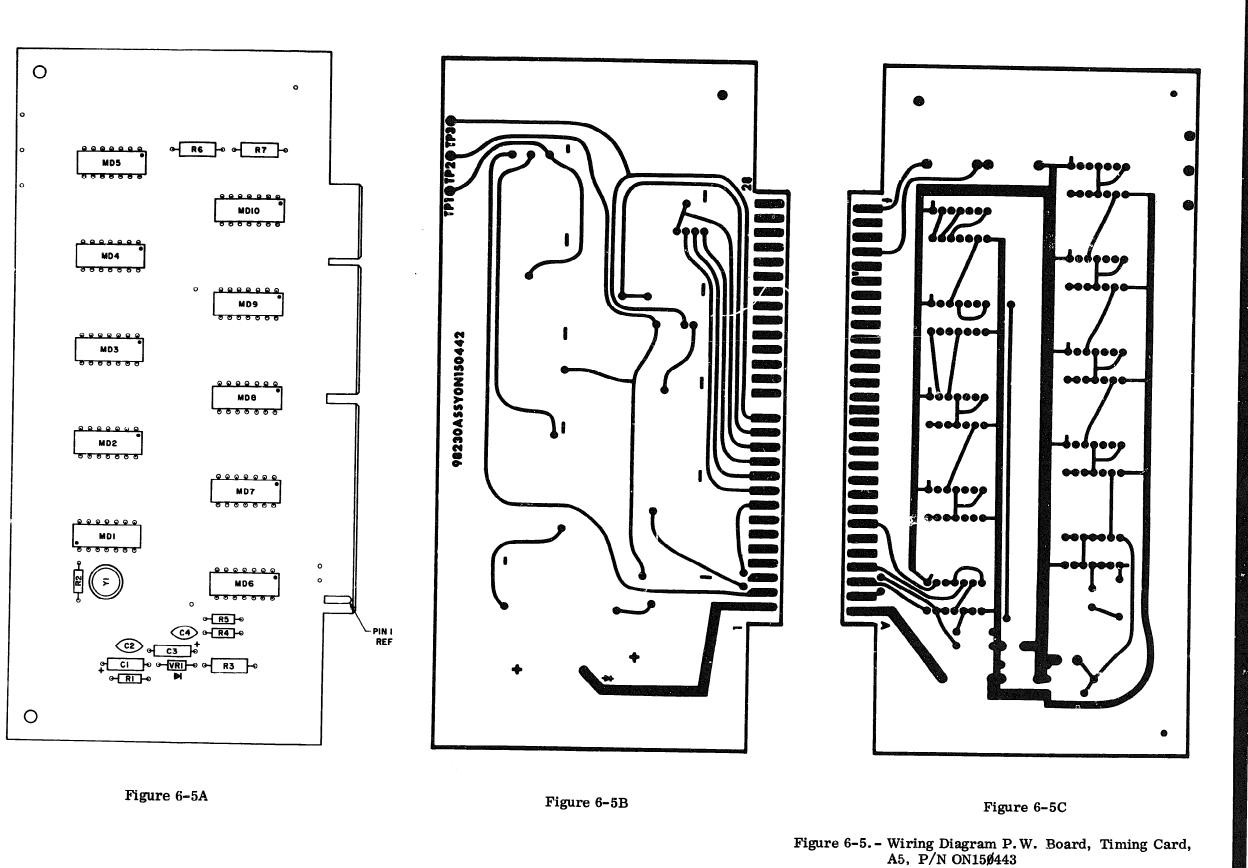




Figure 6-4B

Figure 6-4C

Figure 6-4.- Wiring Diagram P.W. Board, Output Card, A6 thru A9, P/N ON15Ø44Ø







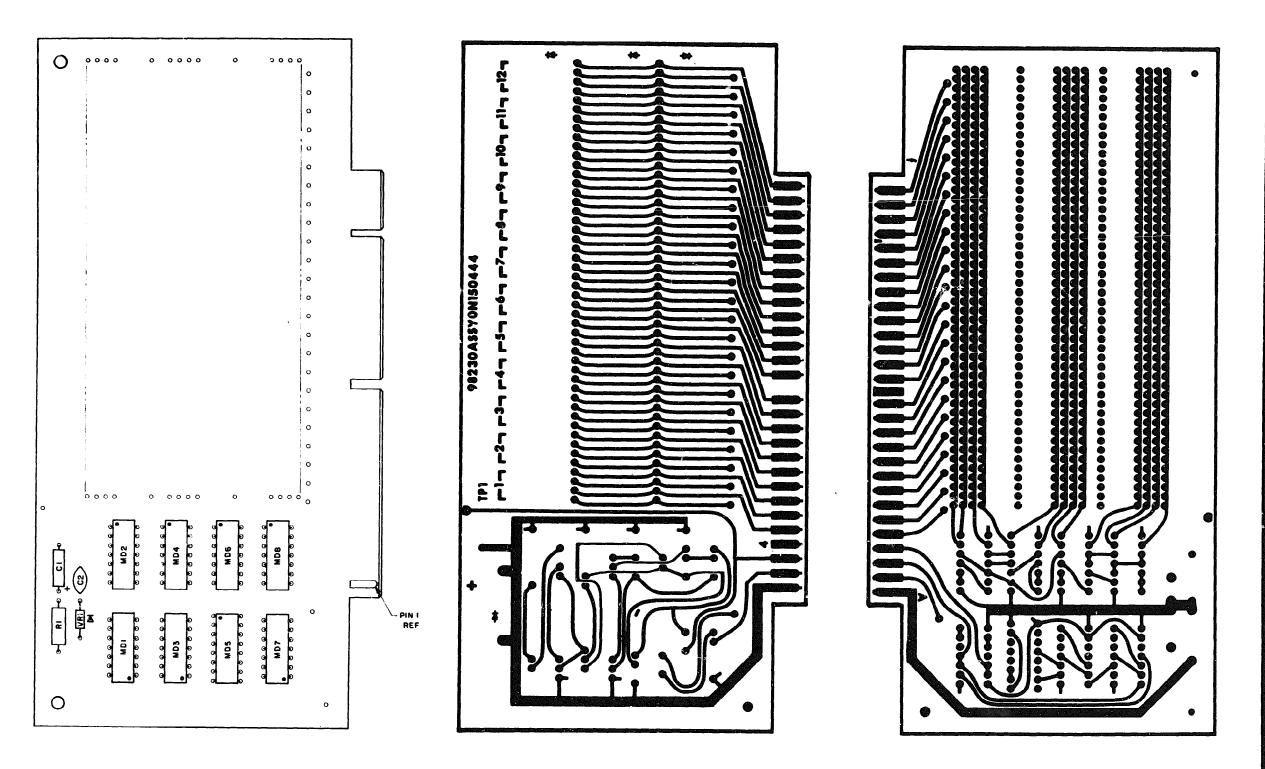




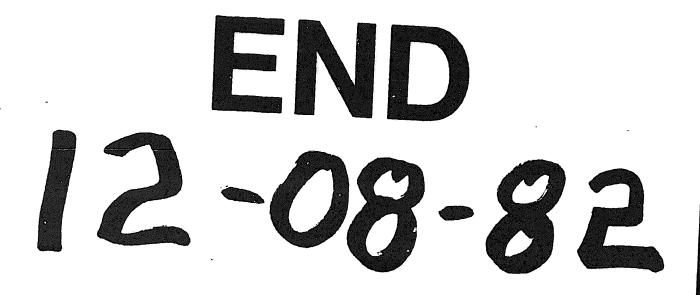
Figure 6-6B

Figure 6-6.- Wiring Diagram P.W. Board, Register/Program Card, A1Ø thru A19, P/N ON15Ø444

Figure 6-6C

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