

**CONTROL DATA® 9465**  
**DISK STORAGE DRIVE**

P12 AND ABOVE

DIAGRAMS &  
CIRCUIT DESCRIPTION  
CARD PLACEMENT  
WIRE LISTS

## RECORD of REVISIONS

| REVISION       | NOTES  |
|----------------|--|
| A<br>(2-14-69) | Manual released. This manual incorporates all change orders released prior to 2-14-69.   |
| B<br>(5-15-69) | Engineering Change Order 5347 incorporating the following:<br>Engineering Change Orders 4539B, 4638A, 4646, 4677, 4772, 4843, 4914, 4949, 4950,<br>5033, 5038A, 5279 affecting pages 1-1, 1-5, 1-9, 1-11, 1-13, 1-15, 3-6, 3-13,<br>3-17, 3-18, 3-22, 3-23, 3-24, 3-25, 3-36, 3-38, 3-40, 3-42, 3-45.  |
| C<br>(7-31-69) | Engineering Change Order PE12158 incorporating the following:<br>ECO FM4840B affecting pages 1-15.<br>ECO FM5207 affecting pages 3-42, 3-43.<br>ECO FM5296A affecting pages 1-13, 3-36 thru 3-42.<br>ECO FM5334 affecting pages 3-31, 3-32, 3-35.  |
| D<br>(1-13-70) | Engineering Change Order PE12527 incorporating the following:<br>FCO PE12234/ECO PE12234 affecting pages 1-5, 1-13, 1-15, 3-36 thru 3-41.<br>FCO PE12285/ECO PE12285A affecting pages 1-1, 3-14, 3-15, 3-16.<br>FCO PE12126 affecting pages 1-11<br>ECO PE12054A affecting pages 3-42, 3-45.<br>ECO PE12211 affecting page 1-5.<br>ECO PE12225A affecting pages 3-31, 3-32, 3-35, 3-36 thru 3-41, 1-13.<br>ECO PE12231 affecting page 3-31.<br>ECO PE12298 affecting pages 3-21, 3-22.<br>ECO PE12461 affecting page 1-11.<br>Editorial Changes affecting page 1-26, 1-29. |
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FORM CA250 REV. 1-67

Pub No. 41248800  
 © 1969, 1970  
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 Printed in United States of America

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 manual to:  
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 4201 North Lexington Avenue  
 St. Paul, Minnesota 55112  
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**PART 1**

**DIAGRAMS & CIRCUIT DESCRIPTION**



FOREWARD

Customer Engineering material for the CONTROL DATA® 9465 Disk Storage Drive is contained in four separate manuals, and provides all information required to install, operate, and maintain a 9465.

|                          |  |
|--------------------------|--|
| Publication No. 41247200 | General Description,<br>Operation, Installation<br>and Checkout, Maintenance |
| Publication No. 41248800 | Theory of Operation,<br>Diagrams, Wire Lists                                 |
| Publication No. 40860200 | Illustrated Parts List   |
| Publication No. 40826700 | Disk Storage Drive (OEM)<br>1604 Logic Modules Manual                        |



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Part 2. Card Placement

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Logic diagrams represent a symbolic approach to electronic schematics. By using symbols to represent building block circuits, the diagram becomes easy to read if the reader understands the function of the symbols. In Control Data Corporation logic, two signals, a logical 0 ("0") and logical 1 ("1"), are the possible input or output conditions of a circuit. A circuit with an output of "1" is "up" and a circuit with an output of "0" is "down". Detailed descriptions of logic symbols and their associated building block circuit cards are contained in the appropriate printed circuit manual (1604 and 3600 Card Types). Refer to the Literature Distribution Center Catalog for the publication number and latest revision level.

### STANDARD LOGIC SYMBOLS

Standard logic diagram symbols for Control Data equipment using 1604- or 3600-type cards are inverters, flip-flops, control delays, capacitive delays, inductive delays, and line drivers and receivers.

#### Inverters

An inverter is a logic element which provides an output that is an inversion of its input. When more than one input is provided to an inverter, "1's" take precedence over "0's" and drive the output of the inverter to "0". Because any "1" input of several inputs drives the output to a "0", an inverter may be considered an inverting OR (NOR) gate when more than one input is present.

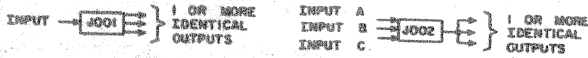


Figure 1. Inverter Symbols

Acceptable conventions for showing multiple OR inputs are given in Figure 2.



Figure 2. OR Circuit Conventions

An AND gate requires that all its inputs be "1's" in order that its output be a "1". If one or more of the inputs to an AND gate are "0", the output is a "0". Figure 3 illustrates conventions for showing AND gates feeding an inverter.

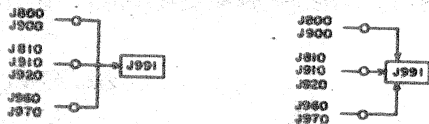


Figure 3. AND Circuit Conventions

Figure 4 illustrates a combination AND/OR input.

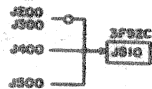


Figure 4. AND/OR Circuit Convention

## KEY TO LOGIC SYMBOLS

(STANDARD 1604 OR 3600 CARD TYPES)

#### Flip-Flops (FF)

The flip-flop (FF) is a storage device with two stable states - designated as Set and Clear - and is composed of two or more inverters. The logic symbols (Figure 5) are formed by the combination of inverter symbols. By convention, Set inputs and outputs are shown in the upper part of the symbol and Clear inputs and outputs are shown in the lower part of the symbol.

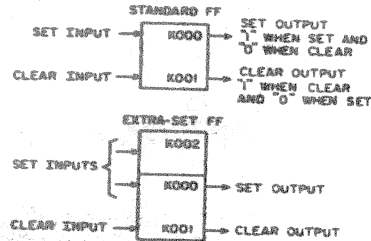


Figure 5. Flip-Flop Symbols

Figure 6 illustrates the interconnection of inverter symbols to form a flip-flop symbol. The term numbers assigned to each flip-flop are the term numbers of the internal inverters as seen by comparing the terms in Figure 5 with those in Figure 8. Notice that the Set output is the output of inverter K001, and the Clear output is the output of inverters K000 and K002.

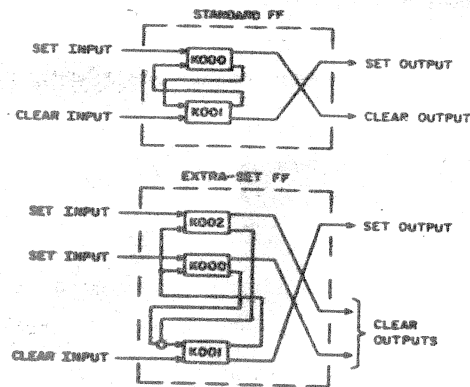


Figure 6. Internal Inverter Connections for a Flip-Flop

#### Control Delay

A control delay is a timing device consisting of an H term which receives the input and one or more V, Y, or N terms to provide the outputs. The H term is essentially a flip-flop with controlled feedback and occupies an entire printed circuit card. The output term(s) are inverter(s) located elsewhere on the logic chassis. The "1" outputs from a control delay are clocked pulses which are delayed one phase time from the "1" inputs. Clock inputs are not shown on the logic diagrams for any H, V, Y, or N terms; these terms, which control the start and duration of the delayed output pulses, may be found in the Equation Summary. Figure 7 illustrates two representative forms of the control delay symbol, with possible inputs and outputs labeled. Figure 8 shows the electrical connections for the two forms.

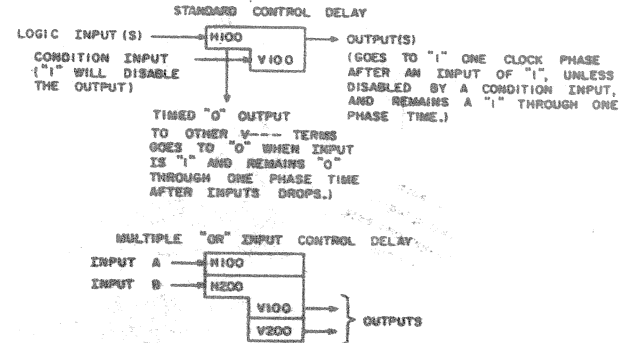


Figure 7. Control Delay Symbols

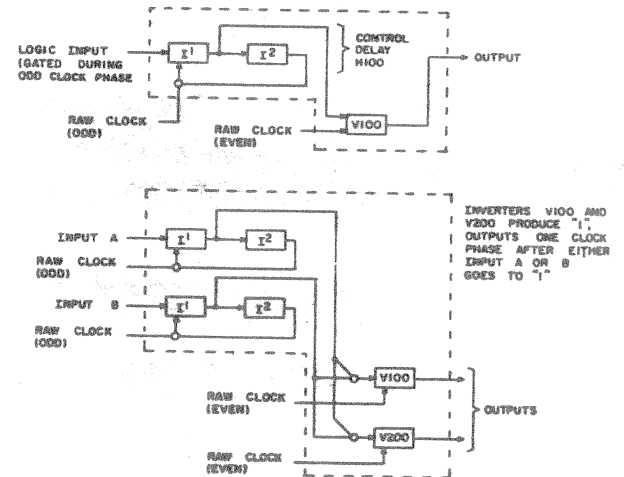


Figure 8. Electrical Connections for Control Delay





Control delays may have multiple inputs and/or multiple outputs. When a control delay has multiple output terms (i. e., more than one V, Y, or N term), each output term may have a separate conditioning input.

#### Capacitive Delays

A capacitive delay is used to delay the "1" input to a logic element. ("0" inputs are not affected by the delay.) Capacitive delays may be active or passive, depending upon whether or not transistors are used as part of the delaying circuit. Delay periods are checked by using a dual-trace scope connected to the input and output of the delay producing element. The actual connection points for the scope and probes vary for different cards and should be determined by referring to the Printed Circuit Manual.

Active delays may be recognized by the circuit letter always present as part of the card location. Pin numbers are also shown when external wiring is needed to connect the proper capacitance. In Figure 9, the pluggable delay uses this wiring to connect to capacitors on the same card. In the third example, this wiring connects to capacitors located on two separate capacitor cards.

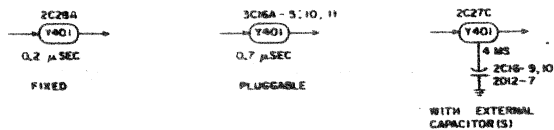


Figure 9. Active Capacitive Delays

All passive capacitive delays (Figure 10) are formed by wiring grounded capacitors, located on one or more capacitor cards, as an AND input to the affected logic element. For this reason, all passive delays show pin numbers to provide this external wiring data.



Figure 10. Passive Capacitive Delays

Capacitive delays may be adjustable or nonadjustable, depending on the card type and/or the external wiring connections on the card. When it is necessary to adjust the delay period in order to obtain specified circuit operation (usually done by varying a potentiometer in the RC network), a diagonal arrow is added to the delay symbol as shown in Figure 11.



Figure 11. Adjustable Capacitive Delays

#### Inductive Delays

An inductive delay is used to delay either the "1" or "0" input to a logic element or as a tapped delay line for timing of operations. The symbol for this delay is an elongated oval with a double vertical line just within the input end of the oval. When used as a tapped delay line, the inductive delay is terminated in its characteristic impedance. Inductive delays are identified

in the same manner as capacitive delays (except for the vertical lines) unless they are used as delay lines. On multi-section cards where no identifying circuit letters are present, pin numbers are shown adjacent to the input and output arrows. Figure 12 shows both kinds of inductive delays.

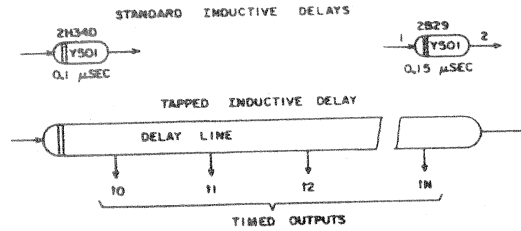


Figure 12. Inductive Delays

#### Line Drivers/Receivers

Voltage levels used to represent "1's" and "0's" on cables are different from those used for internal logic. The level shift to and from internal logic is made by line drivers and line receivers. These cards may be considered as inverting the signal electrically, but not logically. The letters commonly associated with these cards are L & M (1604) and R & T (3000 Series). A 3000 Series Receiver may also be used to perform a logical inversion by swapping the twisted pair wires. This usage is indicated by a circle on the input side of the symbol. In Figure 13, "1's" and "0's" have been added to clarify the logic states; they are not part of the symbol.

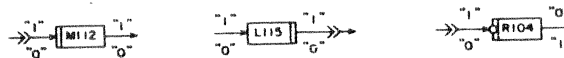


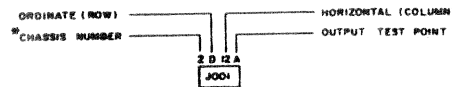
Figure 13. Typical Line Driver/Receiver Symbols

#### NON-LOGIC CONVENTION

The use of the double vertical bar, as shown in Figure 13, denotes a shift in signal voltage level from that used in internal logic. The double bar appears on the input or output side of the symbol, depending on which side connects to the non-logic-level signal. No particular voltage level is implied by the double bar - only that it is non-logic.

#### JACK ASSIGNMENTS

Each numbered term in the logic diagrams contains a jack assignment showing the physical location of that hardware element and the test point (circuit section) associated with it. For some card types, the test point letter is replaced by a pin number. For these cases, a card extender must be used in order to test that section of the card. Also, some symbols show no test point. This is because the entire card is used for one purpose (e.g. a single inverter, FF, or control delay). Figure 14 illustrates the inverter J001, with 2D12A representing its jack assignment.



\*When most or all jack assignments are located on one chassis, the chassis numbers for that chassis are omitted. All multi-chassis devices include a chassis number as part of each jack assignment.

Figure 14. Jack Assignment Scheme

#### CABLE IDENTIFICATION

Cable connections are represented by the MIL-STD-15 symbol and identified as to connector location and pins used, as shown in Figure 15.

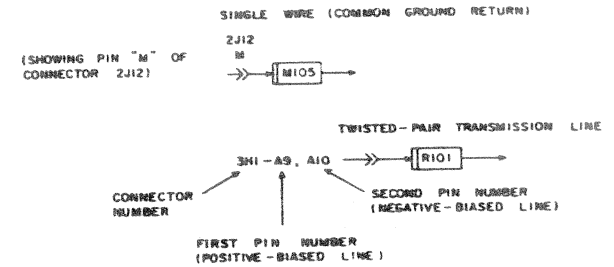


Figure 15. Cable Connections

#### SPECIAL LOGIC SYMBOLS

Nonstandard elements (special logic and/or non-logic elements) are represented by a special circuit symbol (generally a rectangle as shown in Figure 16). The special circuit symbol always shows the symbol designation, jack location, and the card type. Supplemental information may also be shown such as in the case of special delay cards which indicate the delay period. For detailed information refer to the specific card type to the appropriate Printed Circuit or Logic Module Manual.

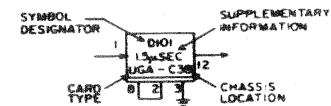


Figure 16. Symbol for Special Circuits

#### INPUT/OUTPUT DESIGNATIONS

Where several pages of logic are involved, a symbol index and term list (side cars) are incorporated within the manual. Also in certain instances such as special card types or on equipments for which no equation summary exists (as for peripheral devices) input and output pin numbers are indicated on each logic element as are the output destinations of the elements (Figure 17).

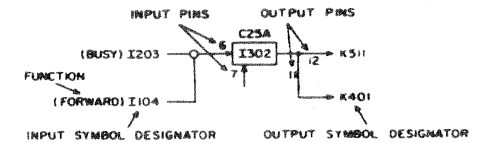
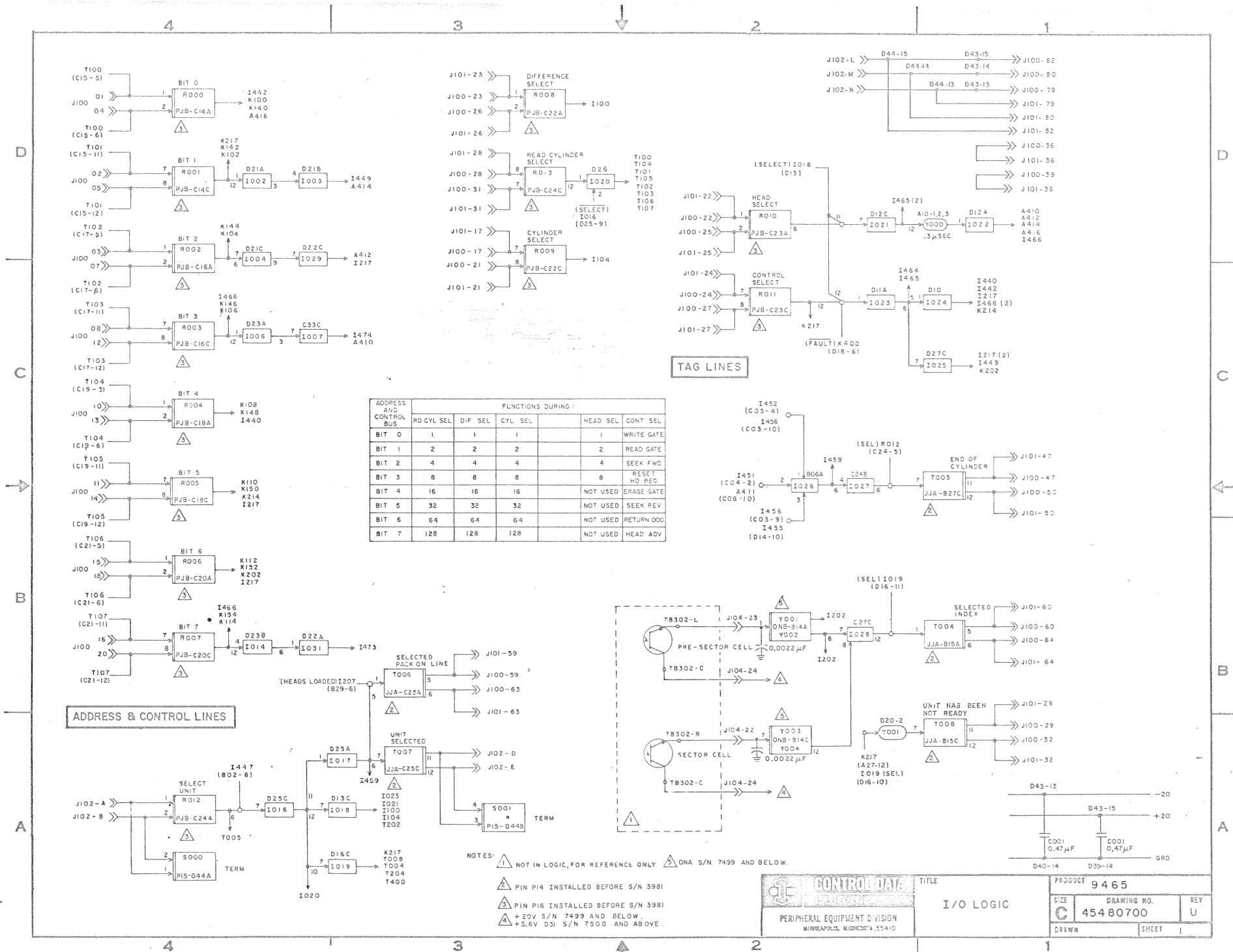


Figure 17. Input/Output Designations





**CONTROL DATA**  
PERIPHERAL EQUIPMENT DIVISION  
MILWAUKEE, WISCONSIN 53140

TITLE: I/O LOGIC

PRODUCT: 9465

SIZE: C  
DRAWING NO.: 45480700  
REV: U

DRAWN: SHEET 1

#### DECREMENT COUNTER

The decrement counter is set by the Difference Select input to the address and control bus. This select sets the counter to the number of cylinders to go during a seek. Direction of seek is controlled by the Control Select line.

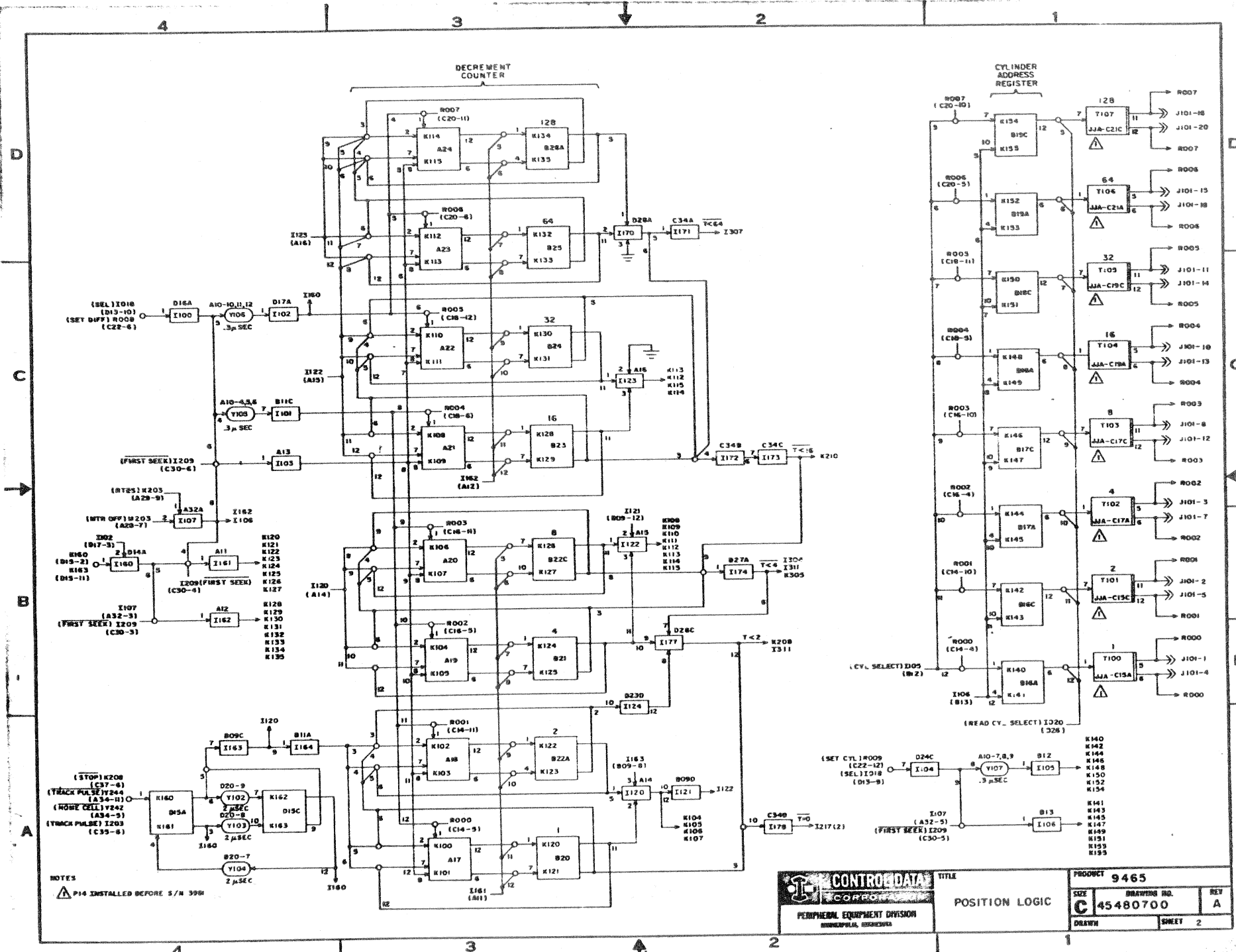
As the heads move toward the new cylinder, the trailing edge of each track pulse provides an enabling term to pulse generator K160/161 and K162/163. This pulse generator provides the two phase pulses necessary to decrement the counter. As the counter counts down towards zero, inverters I171, I173, I174, I177, and I178 decode the output of the counter to indicate the number of tracks to go. These lines will be used to control the speed of the carriage motor and, ultimately, to stop the heads on the desired track.

#### CYLINDER ADDRESS REGISTER

The cylinder address register is set by the Cylinder Select input to the address and control bus. The number stored in the register indicates which cylinder the heads are currently positioned on.

1-3

Rev A



NOTES  
 ⚠ P14 INSTALLED BEFORE S/N 3998

|   |   |                  |
|---|---|------------------|
| <br><b>CONTROL DATA</b><br>CORPORATION<br>PERIPHERAL EQUIPMENT DIVISION<br>MINNEAPOLIS, MINNESOTA | TITLE                                   | PRODUCT          |
|   | POSITION LOGIC                          | 9465             |
|   | SIZE C<br>DRAWING NO. 45480700<br>DRAWN | REV A<br>SHEET 2 |



## HOME CELL

The home cell is a photocell which receives light if the heads are positioned on an illegal cylinder (less than cylinder 00 or more than 202). This signal is used to detect a seek error or to position the heads on cylinder 00 during a return to zero seek or first seek.

## DIRECTION CONTROL

The direction of carriage motion is controlled by the forward FF. The FF forces forward motion when it is set by of the following:

1. Heads unloaded and first seek.
2. Home cell lights while driving in reverse.
3. After a seek has been completed.

The Forward FF is cleared by:

1. Return to zero seek.
2. Reverse seek command.
3. After heads are loaded during first seek.
4. When heads are unloaded with motor off.

The Reverse FF forces reverse motion by clearing the Forward FF. The Reverse FF is set by a control select or if a forward seek error occurs. It is cleared at the end of the reverse seek or upon completion of the seek error recovery.

The RTZS (Return to Zero Seek) FF is set by a control select from the controller. Setting the FF clears the Forward FF to enable reverse drive to the home cell. RTZS FF clears when the home cell lights.

The slow FF is set when tracks-to-go are less than sixteen. The output of the FF acts on the motion circuit to prevent the carriage from moving faster than 6 ips. The FF is cleared by any seek command.

Stop FF commands the carriage to stop. As the decrement counter counts down during a direct seek, the output of I177 goes to "1" on the trailing edge of the next to last track pulse (that is, when  $T < 2$ ). On the leading edge of the next track pulse, Y243 goes to "1" to complete the AND gate to set the FF. The FF is cleared by an any seek command or a motor off and heads unloaded condition.

First Seek FF is used to initially load the heads. When the disks come up to speed, the FF sets. This sets the forward FF. When the heads are loaded, the Forward FF clears. Note that the First Seek FF is also set if a seek error occurs during a forward seek.

Seek Error FF senses an error if the home cell is uncovered during a direct seek. This returns a selected seek error signal to the controller. The FF is cleared upon receipt of a return to zero seek command or power off seek.

## DETENT

The Detent FF (K212/213) controls the detent pawl which locks the carriage on its specified track. When the FF is set, cards L200 and L201 are turned off. This deenergizes the detent coil, allowing the detent pawl to engage the gear. Normally, the Detent FF is set by the trailing edge of the last track pulse during a seek. It is

also set when the disks are not up to speed and the carriage velocity is less than 2 ips. This prevents head scoring.

Upon receipt of any seek command, the FF clears. This completes the AND gate into card L201. Turning on the card applies a high current through coil L210 to quickly pull the pawl away from the gear teeth. After 2 ms, the Y312 term into card L201 goes to zero. Card L200 then controls current through coil L210 to hold the detent in its retracted position.

## ON CYLINDER

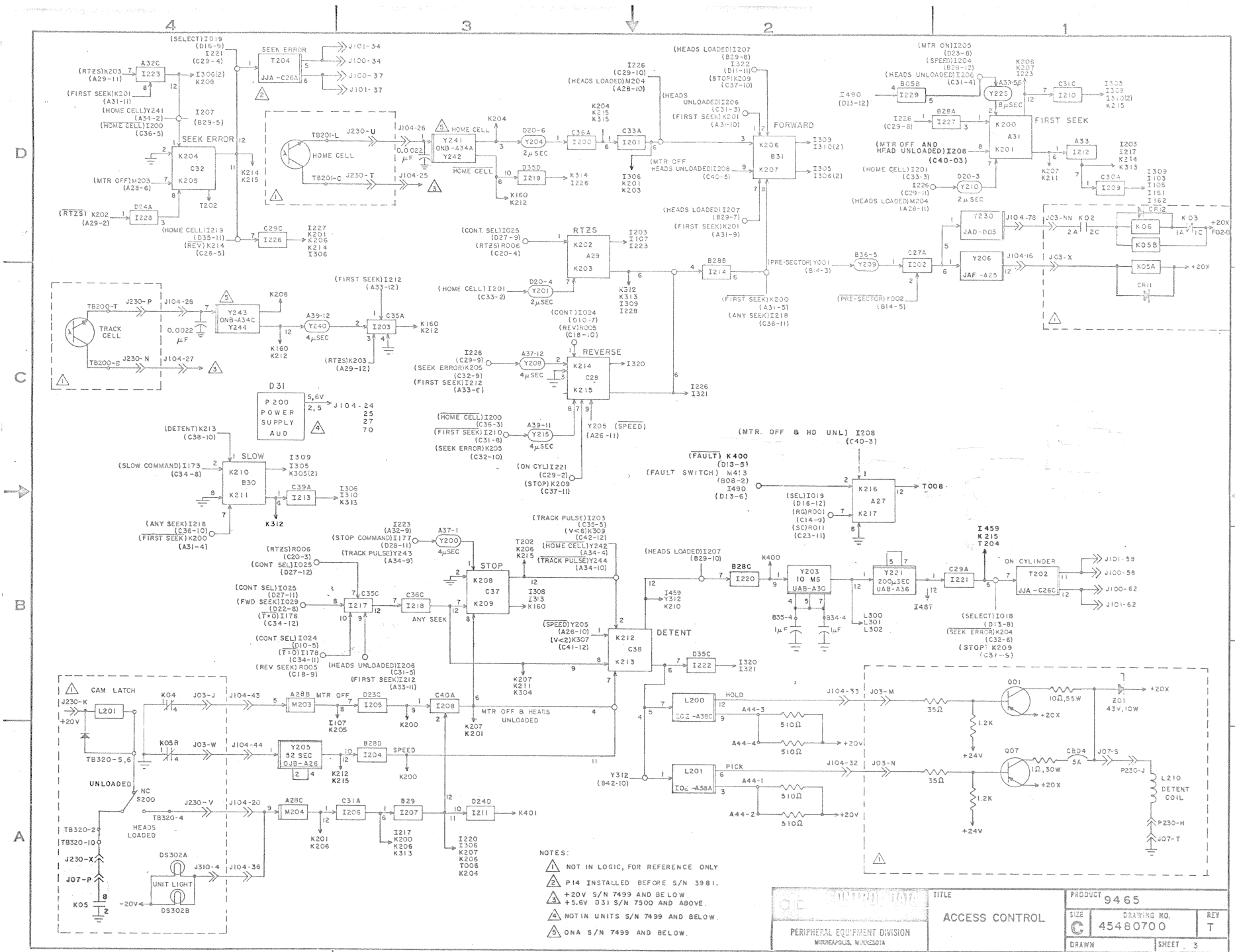
The on cylinder signal informs the controller that the heads have reached the addressed cylinder. This signal is returned to the controller via T202 10.2 ms after the Detent FF sets.

## TRACK CELL

The glass timing disk has 203 slots on its middle ring to indicate cylinder position. As the heads move across the disks, the timing disk rotates. Each time a slot passes the track cell, allowing light to hit the cell, the output on ONA Y244 goes to "0" and Y243 goes "1". As the cell goes dark, the input to I203 from Y244 goes to a "1" after 4 usec. ANDing the outputs of Y244 and I203 provides a 4 usec trailing edge "1" pulse to decrease the decrement counter and partially enable Detent FF. The ONA outputs are also used to partially enable the Stop FF.







- NOTES:
- ⚠ NOT IN LOGIC, FOR REFERENCE ONLY
  - ⚡ +20V S/N 7499 AND BELOW
  - ⚡ +5.6V D31 S/N 7500 AND ABOVE.
  - ⚠ NOT IN UNITS S/N 7499 AND BELOW.
  - ⚡ ONA S/N 7499 AND BELOW.

|   |                |             |
|---|----------------|-------------|
| PERIPHERAL EQUIPMENT DIVISION<br>MINNEAPOLIS, MINNESOTA | TITLE          | PRODUCT     |
|   | ACCESS CONTROL | 9465        |
|   | SIZE           | DRAWING NO. |
|   | C              | 45480700    |
|   | DRAWN          | SHEET       |
|   |                | 3           |

The glass timing disk has slots in its outer ring used to indicate speed of carriage motion. As each slot permits light to hit the speed photocell, the leading edge of the pulse out of ONA Y321/322 is used to initiate a timing chain generator composed of FF's K300/301 and K302/303. The outputs of these FF's are applied to three UAB delay cards: Y305, Y306 and Y307. If the speed is low enough to allow one or more of these delays to time out, their associated inverters will output a "1" to signify head speeds of less than 15 ips, 6 ips, or 2 ips. These outputs are applied to the set inputs of V<2 FF K306/307, V<6 FF K308/309, and V<15 FF K310/311. The outputs of these FF's in turn, are used to control carriage motion.

## MOTION

The printed circuit motor which drives the carriage is controlled by an H-switch consisting of Q03 through Q06. The motor drives forward when the AND gate into L300 is made. Operation of the circuit during a forward seek is explained below.

Upon receipt of a forward command, the Forward FF (K206/207) is set; the Detent FF (K212/213) clears to pull the detent pawl. The direction of seek is sensed by I305 and I309; all inputs to I305 must be "0" to drive forward. Since velocity is 0 ips at this time, I305 outputs a "1" and forward motion starts. (I309 in the reverse circuit operates in a similar manner; if all of its inputs are "0" the motor drives in reverse.)

Rate of motor acceleration is controlled by the Not Max Drive FF (K212/213). When the FF is cleared transistor Q02 is turned on to permit high current flow through the access motor's H-switch, this causes maximum acceleration or, in the case where opposing current is enabled, maximum deceleration. When a seek starts where tracks to-go exceed 4, the FF clears after delay Y312 times out, the delay permits the detent pawl to clear its gear. Assume a full 199 track seek. The motor accelerates to a full speed of approximately 35 ips until there are less than 64 tracks to go. The output of I305 goes to "0" when T (tracks-to-go) is less than 64 and V (carriage velocity) is greater than 15 ips. At the same time, the "1" input to I310 in the reverse drive circuit causes opposing current to flow through the H-switch. The motor is then rapidly braked to 15 ips. When V is less than 15, the Not Max Drive FF sets to turn off high current. The 15 ips speed is maintained by serving the motor; I305 and I310 alternately output "1's" and "0's" to maintain a constant speed.

When tracks-to-go are less than 16, the slow FF sets. The Per Dy Brk (Permit Dynamic Braking) FF (which was set at the start of the seek) enables the AND gate input to I310 to again apply reverse current. Therefore, the motor is rapidly slowed to 6 ips. When the speed is less than 6 ips, Not Max Drive FF sets, while Per Dy Brake FF clears. Speed is maintained in a "hit and coast" manner. That is, I305 turns on the motor when speed is less than 6 ips, then turns it off when speed exceeds 6 ips.

When tracks-to-go are less than 4, I311 sets K304/305. The motor is again dynamically braked until speed is less than 2 ips. Note that the braking action is now low current since the Not Max Drive FF remains set. Speed of 2 ips is maintained in a hit and coast manner.

The trailing edge of the next to last track pulse causes a stop command which combines with the leading edge of the last pulse to set the Stop FF.

Detent FF sets on the trailing edge of the last track pulse. The circuit consisting of I320 through I324, and delays Y330 through Y332 provide a motor stop pulse. In a forward seek, after the Detent FF sets, a 2 ms "0" pulse is applied through I323 from I331 to stop the motor by the time the cards L301 and L302 to stop the motor by the time the detent pawl meshes with its gear.

Operation of this circuit during a return to zero seek is as follows:

1. With RTZS FF set and Forward FF cleared, reverse drive is supplied by the "1" output of I309. Acceleration is retarded since Not Max Drive FF is set.
2. Speed is maintained in a hit and coast manner at 6 ips by the V greater than 6 term that is applied to I309.
3. When the home cell lights, the RTZS FF clears and Forward FF sets. The output of FF K314/315 forces forward drive back to cylinder 00.

## FAULT

The Fault FF K400/401 is set and returns a Data Un-safe signal to the controller if one of the following mal-functions occurs:

1. More than one head is selected.
2. Both write (or erase) and read gates on.
3. Erase driver on without write driver on.
4. Erase driver on with either both or no write driver.
5. Read, write, or erase gate on while not on cylinder.

## HEAD ADDRESS REGISTER

The head address register consists of FF A400/401 through A416/417. The output of the register is applied to the 10 head select cards (G40-) to control which head will read, write, or erase.

The register may be set in two ways. One method is by means of the Head Select line. When this line is up, the address and control bus directly sets up the register to select the desired head.

If it is desired to select the heads sequentially on a cylinder, the Control Select line and bit 3 of the address bus is used to initially set the register to zero. Thereafter, a head advance signal may be applied to Y405 to increment the register to the next head.

In either method, the timing pulse generator consisting of FF K402/403 and K404/405 provides the enabling pulses to transfer the count in rank I to rank II of the register.

## READ CHAIN

The read chain consists of cards A440, A441, D400, L402, and T401. The analog output of the selected head is applied to the ATB gated read amplifier, then amplified by the EUC differential amplifier A441. Shaper D400 converts the analog input from the heads to a square wave output. If the read mode has been selected, the OVA pulse shaper gates the square wave output to T401 for transmission to the controller.

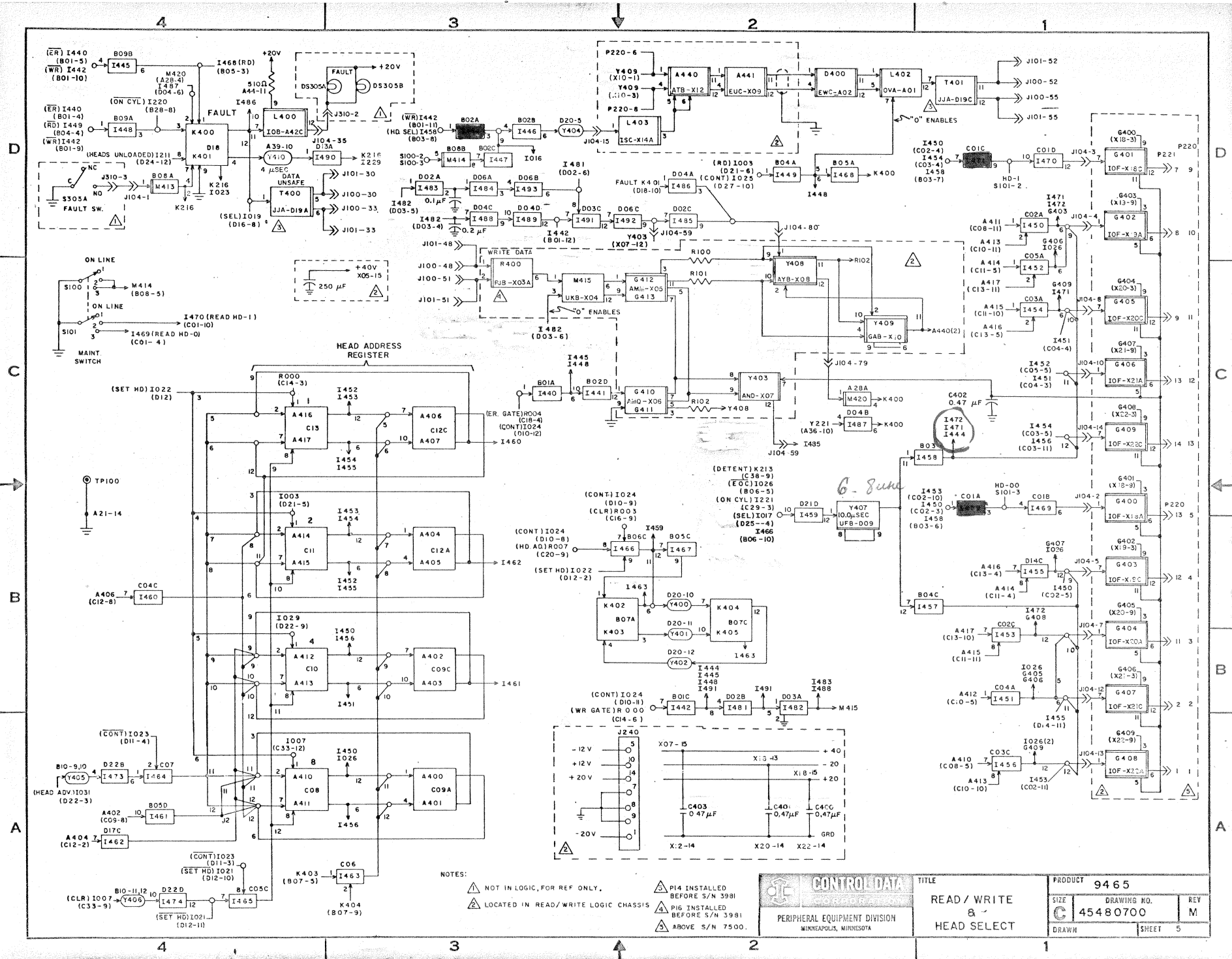
## WRITE CHAIN

Erase enable is applied to AM- erase driver G410/411 via I440 and I441. In order to write, a write enable must be applied through I442 to UKB toggle M415. Write information, in the form of data pulses, is applied to UKB toggle M415 via R400. The UKB switches state at the leading edge of each write data pulse; its output is applied to AM- G412/413. Write current is then allowed to flow through the head selected by the head address register. Outputs of both AM- drivers are applied to AND card Y403 to check for any unbalance of the output voltages. (If there is an unbalance, Y403 sets the Fault FF K400/401.)



I-9

Rev B



NOTES:  
 ⚠ NOT IN LOGIC, FOR REF ONLY.  
 ⚠ LOCATED IN READ/WRITE LOGIC CHASSIS

⚠ P14 INSTALLED BEFORE S/N 3981  
 ⚠ P16 INSTALLED BEFORE S/N 3981  
 ⚠ ABOVE S/N 7500.

|   |                                  |             |                                |         |
|---|----------------------------------|-------------|--------------------------------|---------|
| <br><b>CONTROL DATA</b><br>CORPORATION<br>PERIPHERAL EQUIPMENT DIVISION<br>MINNEAPOLIS, MINNESOTA | TITLE                            | PRODUCT     | SIZE                           | REV     |
|   | READ / WRITE<br>&<br>HEAD SELECT | <b>9465</b> | DRAWING NO.<br><b>45480700</b> | M       |
|   |                                  | DRAWN       |                                | SHEET 5 |





## GENERAL

The power supply is completely solid state to provide low dissipation and high reliability to the operating system. The power supply provides an adjustable +20 vdc to the logic chassis, +24 vdc and +20X vdc to the access motor and detent solenoid, +40 vdc to the write circuit and dynamic braking circuit, +20Y vdc to the power sequencing circuit, and 24 vdc to the brush motor circuit.

The main power supply is supplemented by an auxiliary power unit which provides +5.7 vdc for the fiber optic source lamp.

These voltages are sequenced and coupled to the related circuit in such a way as to prevent improper head loading, track accessing, or disk movement.

## DC POWER CIRCUIT

The 380-volt input power is applied through the MAIN POWER chassis fans, and the spindle drive motor, M360, POWER supply fans, and the spindle drive motor, M360, POWER INPUT and MAIN POWER circuit breakers and is applied to the ferroresonant transformer T01.

Since T01 is a ferroresonant transformer, the voltage developed in the secondary windings tend to remain constant, regardless of the voltage variation of the primary. The voltage developed across the secondary of T01 is coupled from pins 8 and 9 to the primary of transformer T02 and rectifier diodes CR01, CR02, and CR04. Also coupled from pin 8 is 24 vac which is supplied to the brush motor circuit.

Rectifier diodes CR04A and CR04B, and rectifier diodes CR01A and CR02A develop +20 vdc and -20 vdc, respectively, at their junctions. Capacitors C01 through C04 and chokes L01 and L02 filter the voltages before they are supplied to the logic chassis. Rheostats R03 and R04 are used to adjust the voltages to their proper levels. R01 and R02 are bleeder resistors.

The voltage applied to the primary windings of transformer T02 is coupled to the secondary. The secondary voltage is applied to rectifier diodes CR03A and CR03B which develop +40 vdc at their junction. Capacitor C07 filters the voltage before it is applied through relay K05B to the read/write/erase circuit in the logic chassis. Also developed at the junction of CR03A and CR03B is +40X vdc which is applied to resistor R08.

Resistors R07 and R08 form a voltage divider. The +20V vdc developed at the junction of rectifier diodes CR01B and CR02B is applied to resistor R07. The junction of resistors R07 and R08 is driven to approximately +24 vdc. This voltage is applied to the H switch and detent circuits for transistor bias. The +20V volts at R07 is also applied to filter capacitors C09, C10, and C11. Resistor R06 is a bleeder to discharge the capacitors once the unit has been turned off. The filtered +20Y vdc is used for power sequencing of the unit.

## FIBER OPTICS POWER SUPPLY

The secondary voltage of transformer T01 is coupled from pins 5 and 7 to rectifier diodes CR01A and CR01B in the fiber optics power supply. Rectifier diodes CR01A and CR01B develop +5.7 vdc at their junction and apply the voltage to filter capacitors C01 and C02 and filter choke L01. The filtered voltage is coupled through rheostat R03 to the photocell lamp. Resistor R01 is a bleeder to discharge the capacitors once the unit has been turned off.

## POWER-ON SEQUENCE

Sequencing of power within the power supply is accomplished by seven relays. This sequencing is necessary to prevent damage to the heads and/or disks and to ensure proper control of the actuator mechanism by the logic.

Motor sequence relay K01 is energized when the unit receives a sequence in from either the control unit or the previous storage drive on the line. If the disk drive unit START switch is not latched (S301 set to OFF), the sequence out level is applied to the next storage drive. This sequencing of the storage drives is necessary to prevent loading of the primary power source.

Assume that a Power-On command is received from the control unit and the START switch (S301) is latched. The +20Y vdc is applied through connector J03 to complete the path and energize relay K01. When relay K01 is energized, contacts 1 and 7 close to energize relay K02. When K02 is energized, contacts 3A and 3C close to supply +20 vdc to the logic chassis, and contacts 4C and 4A close to supply -20 vdc to the logic chassis.

Relay K01 also completes the path through contacts 3

and 9 to energize relay K04 (assuming the disk pack is on, both top covers are closed, and the START switch is latched). Contacts 2 and 5 of K04 open and remove +20V volts to the brake solenoid, L300. This causes the pawl to free the spindle and close the spindle interlock switch, S333. Contacts 2 and 8 of K04 close to provide +20X to the sector solenoid, L301. The solenoid energizes, swinging the sector sensor assembly into the disk pack, thus closing the pack cover on switch, S334.

With switches S333 and S334 closed, a path is completed to energize relay K03. K03 contacts 3A/3C and 4A/4C close to apply power to the spindle motor, M360. K04 contacts 1 and 4 open and apply an output signal indicating that the motor is on. Contacts 1A and 1C of K03 close so that power will be applied to the head latch solenoid, L200, and the cam latch solenoid, L201, when the disk pack is up to speed.

When the disk pack reaches approximately 50 rpm, relay K05B is energized. Relay contacts 2 and 8 close, supplying +40 vdc to the write circuit.

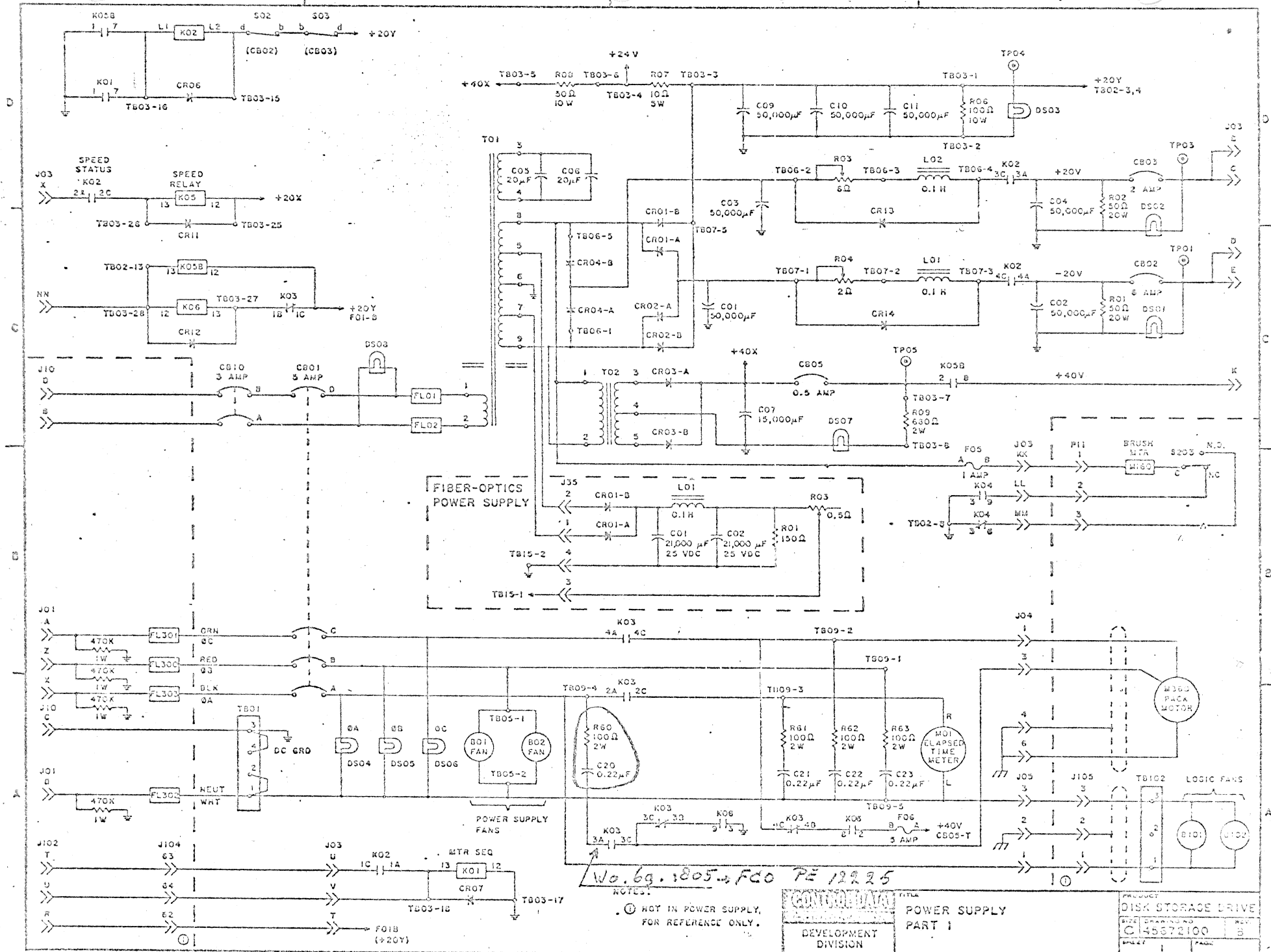
At 80 percent of the rated speed, the logic completes a circuit to energize relay K05A through J03-X. When this relay energizes contacts 1 and 4 open and a signal is applied to the logic, indicating that the pack is up to speed. This signal is applied to a 52-sec-ond delay card which allows time for the air to be purged from the disk pack area before loading the heads and for the brush assembly to complete a clean cycle of the disk pack. Relay contacts 2 and 8 of K05A close to apply power to the head latch, L200. Once the heads are loaded, the solenoid armature holds the heads loaded.

## POWER-OFF SEQUENCE

Power in the disk storage drive can be cycled off in any of three ways: from the START switch on the disk storage drive operator control panel, by opening either top cover, or from the control unit. It is assumed that the purpose for this Power-Off sequence is to change packs. The sequence is initiated when START switch S301 is pressed, opening the contacts of S301A and breaking the circuit that holds relays K03 and K04 energized. The following events occur: K03 contacts 3A/3C and 4A/4C open and remove power to the spindle motor, M360, (rotation begins to slow).

(continued)





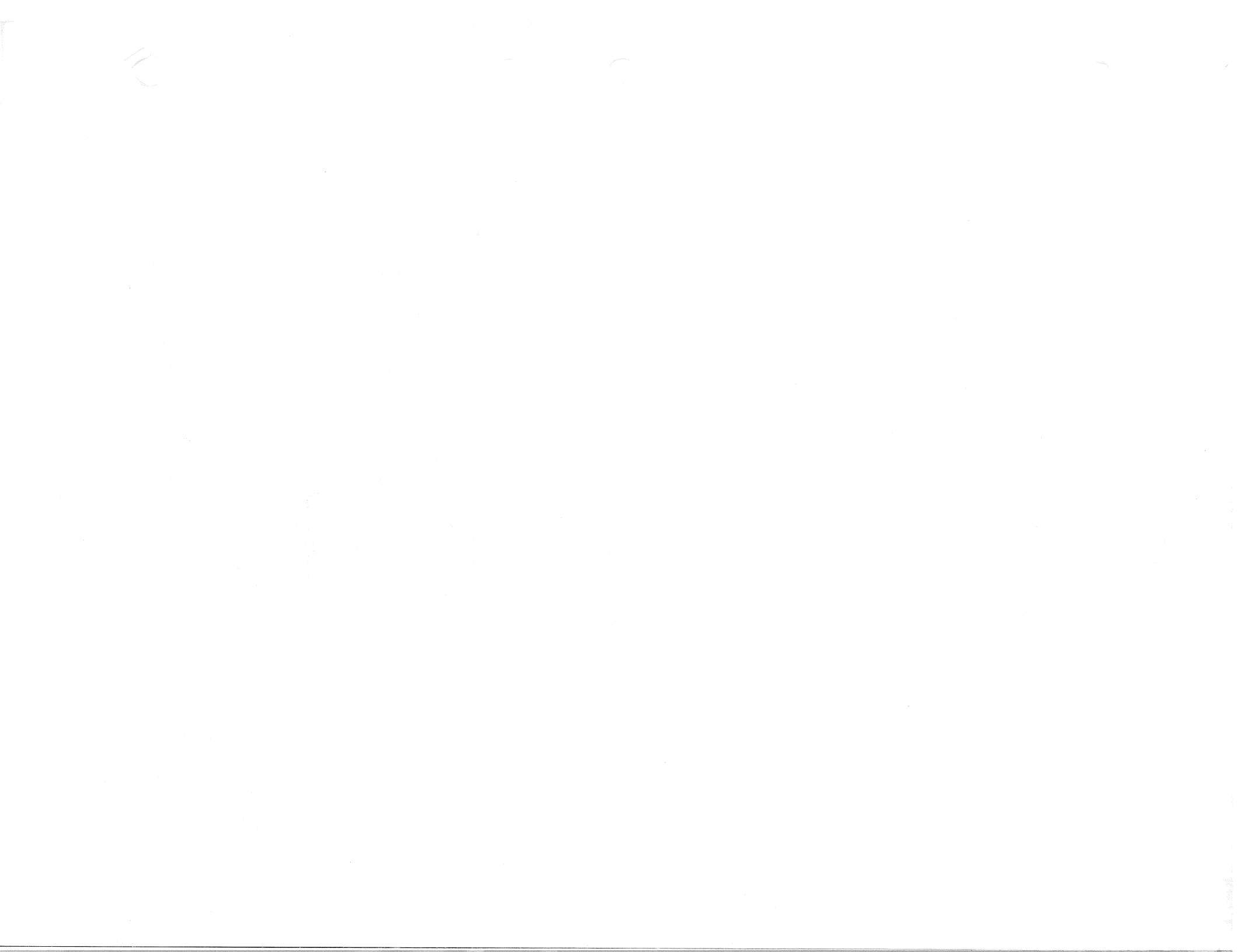
No. 69. 1805. FCO PE 12225

NOTES:  
 1. NOT IN POWER SUPPLY, FOR REFERENCE ONLY.

**CONFIDENTIAL**  
 DEVELOPMENT DIVISION

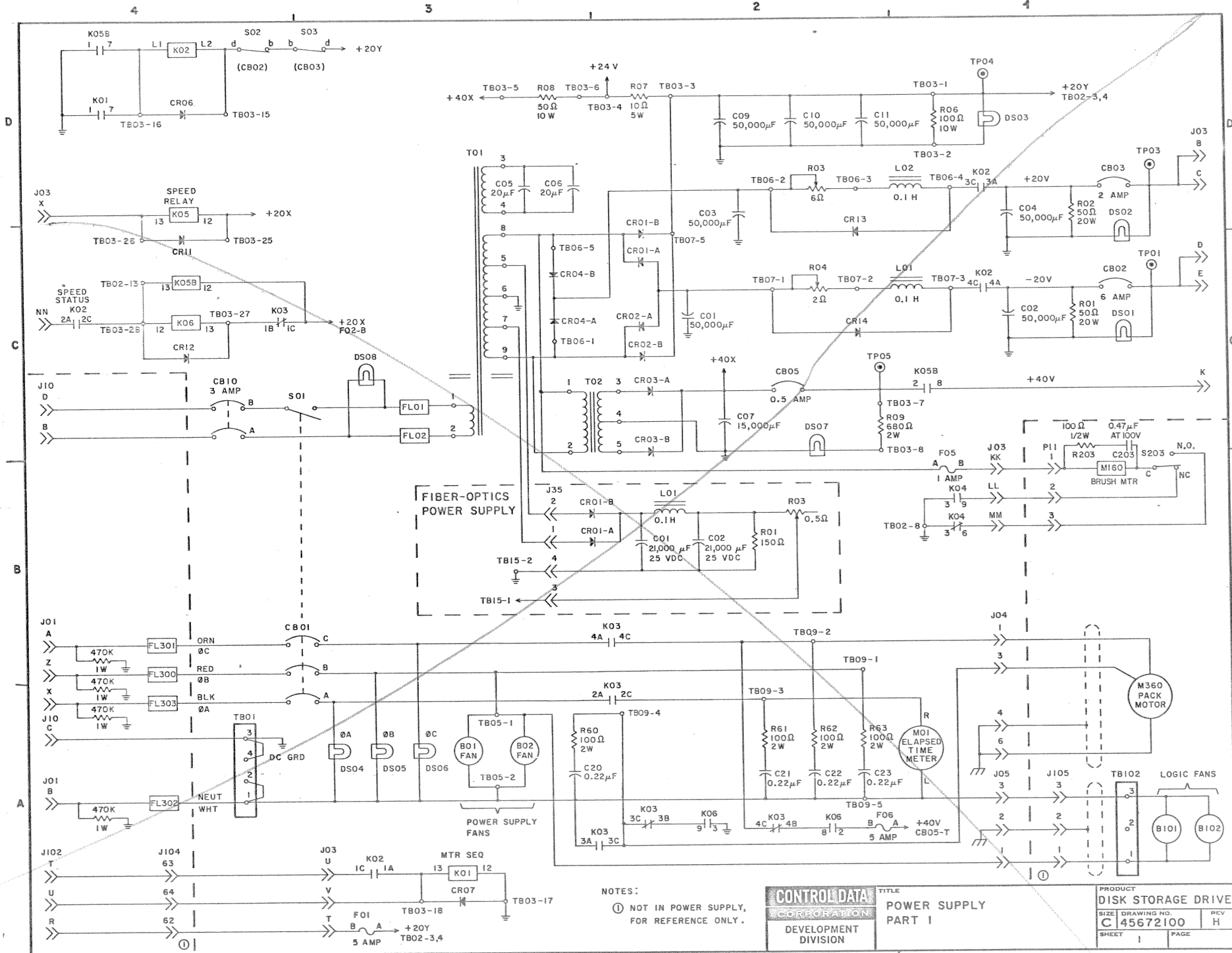
TITLE  
 POWER SUPPLY  
 PART 1

|         |                    |
|---------|--------------------|
| PRODUCT | DISK STORAGE DRIVE |
| SIZE    | 5 INCHES           |
| C       | 45672100           |
| REV     | B                  |
| PAGE    | 1                  |
| PART    | B                  |



1-13

REV D



NOTES:  
 ① NOT IN POWER SUPPLY, FOR REFERENCE ONLY.

**CONTROL DATA CORPORATION**  
 DEVELOPMENT DIVISION

TITLE  
**POWER SUPPLY PART I**

PRODUCT  
**DISK STORAGE DRIVE**

SIZE DRAWING NO.  
**C 45672100**

SHEET 1 PAGE

## Power-Off Sequence (cont'd)

- K03 contacts 3B/3C and 4B/4C close (partially completes circuit that will later dynamically brake the spindle motor).
- K04 contacts 1 and 4 close and signal logic that the spindle motor is off.
- K04 contacts 2 and 5 close (partially complete circuit that will energize the brake solenoid when spindle motor speed is less than 50 rpm).
- K03 contacts 1A and 1C open to remove power to the head latch (1200) and cam latch (1201) solenoids (heads unload and carriage starts retracting).
- K03 contacts 1B and 1C close to energize relay K06.

Energizing K06 closes contacts 2/8 and +40 vdc is applied to the windings of the spindle drive motor. This causes a magnetic field to form. The field opposes further rotation and the motor speed slows rapidly (dynamic braking).

When the logic senses the spindle motor speed is less than 50 rpm it de-energizes relay K05B. This causes the following events:

- K05B contacts 2 and 8 open, removing +40 vdc to the write circuit.
- Contacts 3 and 9 open to remove the +20X volt-  
age to the sector solenoid, L301, and the ac-

- Contacts 1 and 4 close to energize the brake solenoid, L300, so that the pawl on the spindle lock assembly engages the spindle lock disk to hold the spindle stationary.
- Contacts 1 and 7 open, de-energizing relay K02.

When relay K02 de-energizes, contacts 3A/3C and 4A/4C open, removing +20 vdc to the logic chassis.

## DETCNT CIRCUIT

Upon receipt of any seek command, transistors Q01 and Q07 are forward biased and the transistors are gated on. When the transistors are gated on a high current pulse is applied through the detent coil L210 which quickly pulls the detent pawl away from the gear teeth. After approximately 2 msec transistor Q07 is gated off. Transistor Q01 remains gated on to provide holding current for the detent coil until a detent command is received.

The holding current flows through resistor R13, reducing the current to approximately 2 amps. When the detent command is received, power is removed from the base of Q01 and current flow is stopped. In approximately 2 msec the spring-loaded pawl is pulled into and engages the detent gear.

## PRINTED CIRCUIT MOTOR MOTION CONTROL

The printed circuit motor, which moves the carriage drive and positioning mechanism, is controlled by a 5-transistor switching circuit. By controlling the transistor selection and the amount of current through these transistors, the motor is driven fast or slow in the reverse or forward direction. Transistors Q03 and Q06 are switched on for a forward operation, causing the printed circuit motor to drive the carriage forward. Transistors Q04 and Q05 are switched on for a reverse operation, connecting the switching circuit in such a manner as to allow motor current flow in the reverse direction.

The five transistors (Q02 through Q06) are normally gated off by the +74 volts applied through resistors to each base. Emitter voltage, applied to the PNP transistors, is supplied by the +20X voltage source. The base bias voltage is greater than the applied emitter voltage to assure that the transistors are cut off when not selected. When a move command is applied, the base resistors complete a voltage divider resulting in a forward-biased transistor.

Resistors R29 and R31 prevent overdrive of transistors Q03 and Q05 respectively. This allows the amplifier card inputs to the switching circuit to drive both switching transistors (Q05 and Q04, or Q03 and Q06) in parallel, even though the emitter reference voltages are different. The values of R29 and R31 are selected to provide equal drive to the parallel-switching transistors.

The magnitude of current in the printed circuit drive motor is determined by the power supply voltage and the total effective series resistance in the circuit. The voltage supplied to the switching transistors is fixed, but the total circuit resistance during the high current drive, excluding the saturation resistance of the switching transistors, is approximately 2.5 ohms. After the current is reduced, the total circuit resistance is approximately 12.5 ohms.

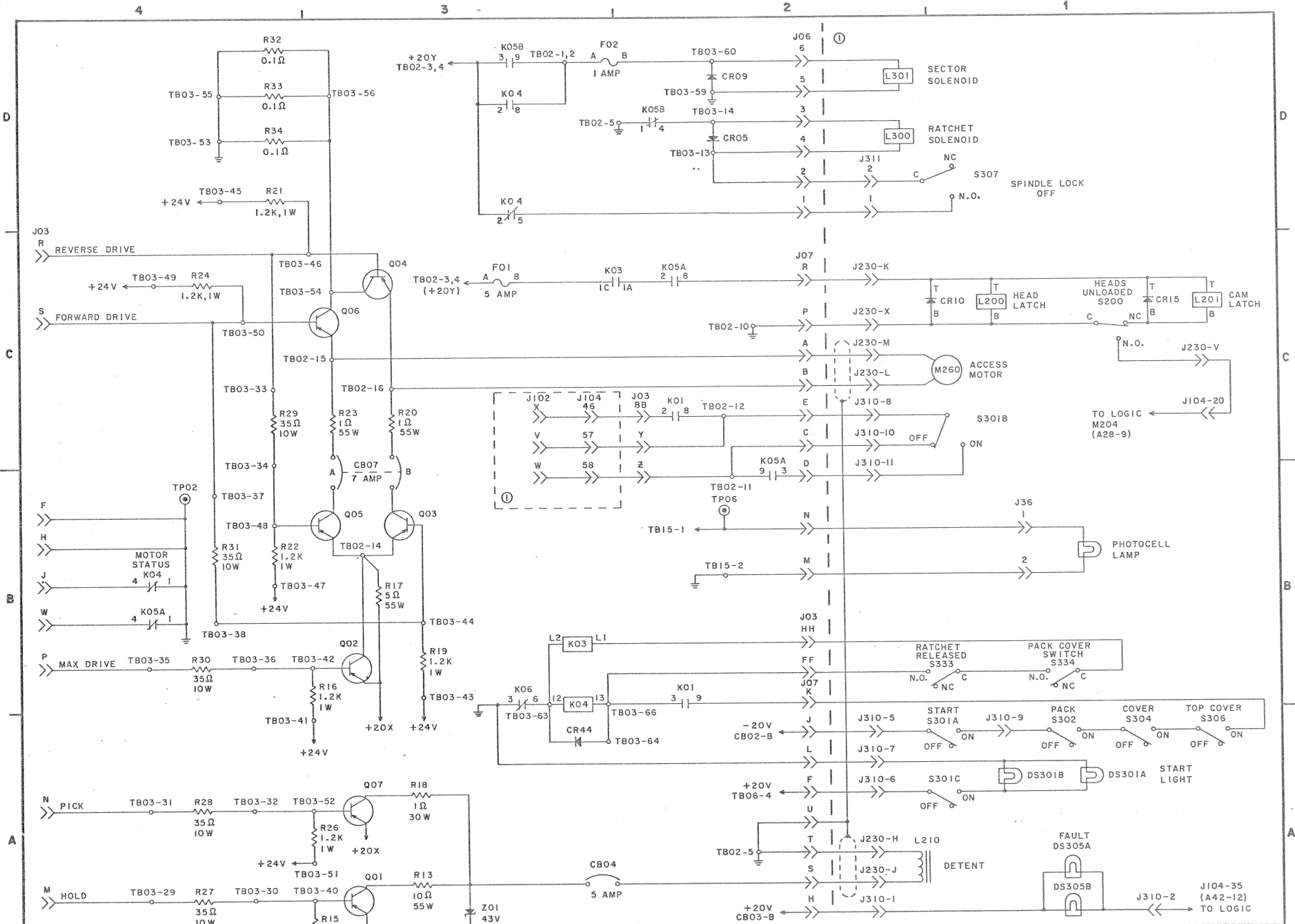
The use of series resistor R17 during slow speeds prevents excessive current and motor torque when pawl is dropped.

- Q03 and Q06 are switched off and Q04 and Q05 are switched on (Q02 remains on). The reverse current through the motor causes the motor to slow the carriage down.
  - When the carriage speed has slowed to 15 inches per second in the forward direction, Q02, Q04, and Q05 are turned off.
  - From this time until the Decrement counter indicates less than 16 tracks remaining, current pulses through the H switch are used to sustain 15 inches per-second carriage speed.
  - With 15 tracks remaining, Q02, Q04, and Q05 turn on (Q03 and Q06 turn off), and again in the motor is used as a brake, slowing the carriage to 6 inches per second, Q02, Q04, and Q05 turn off and current pulses (through R17, Q03, the motor, and Q06) sustain a carriage velocity of 6 inches per second.
  - With 3 tracks remaining, Q02, Q04, and Q05 turn on and Q03 and Q06 turn off and slow the carriage to 2 inches per second.
  - At 2 inches per second, Q02, Q04, and Q05 turn off and current pulses (through R17, Q03, the motor, and Q06) sustain a carriage velocity of 2 inches per second.
- When the selected track is reached, the spring-loaded pawl is dropped.

Slow speeds are maintained by servoing and not current limiting. Circuit breaker CB07 prevents sustained high-level currents from damaging

1-15

REV D



NOTES:  
 ① NOT IN POWER SUPPLY, FOR REFERENCE ONLY.

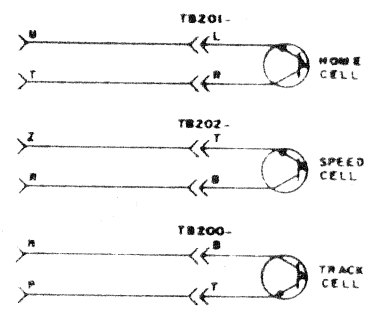
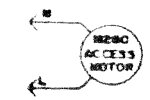
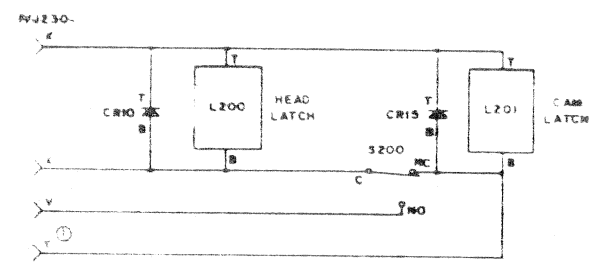
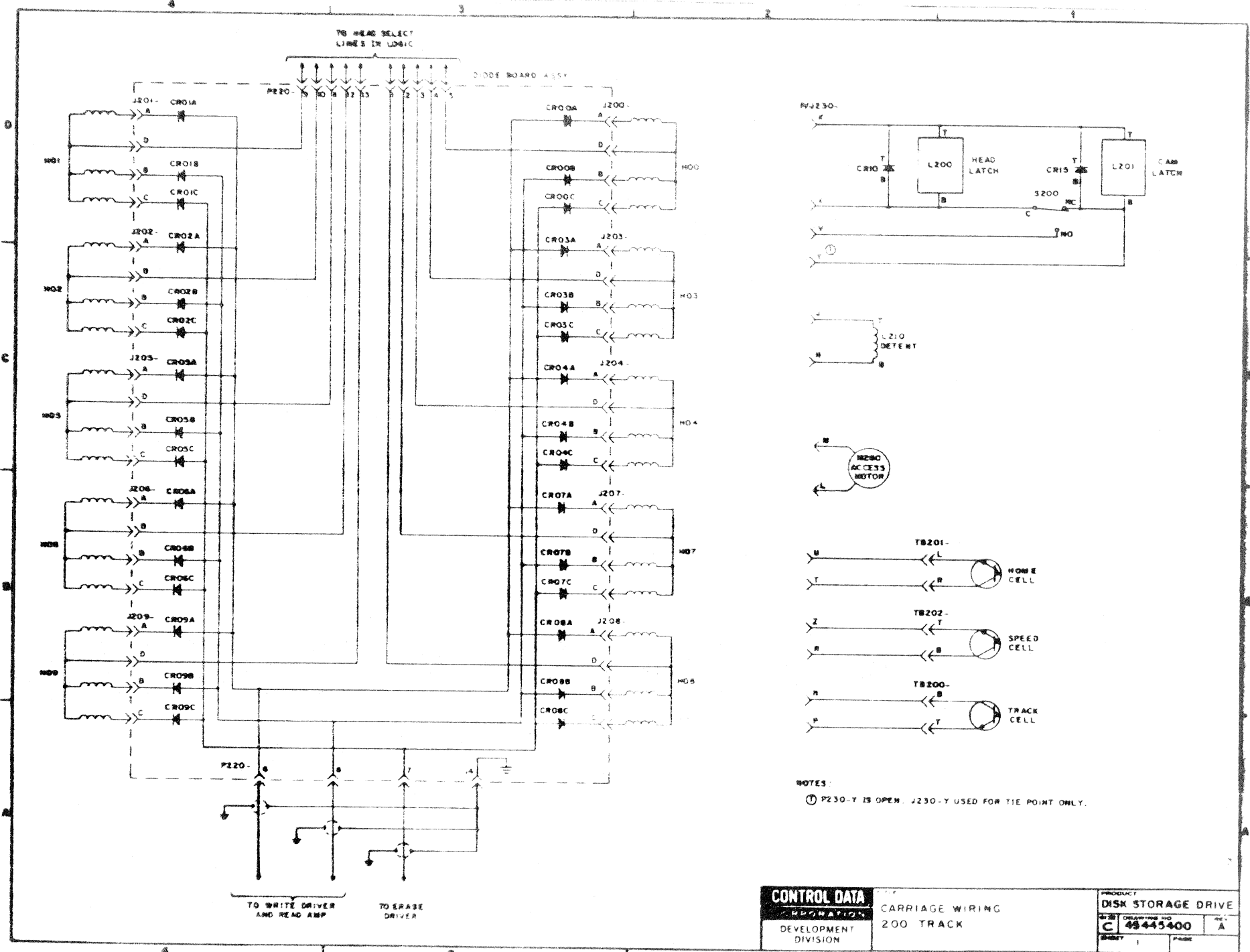
|  |         |                        |
|--|---------|------------------------|
| <b>CONTROL DATA</b><br>CORPORATION<br>DEVELOPMENT DIVISION | TITLE   | POWER SUPPLY<br>PART 2 |
|  | PRODUCT | DISK STORAGE DRIVE     |
|  | SIZE    | DRAWING NO. C 45672100 |
|  | SHEET   | 2                      |
|  | REV.    | D                      |
|  | PAGE    |                        |





1-17

Rev A

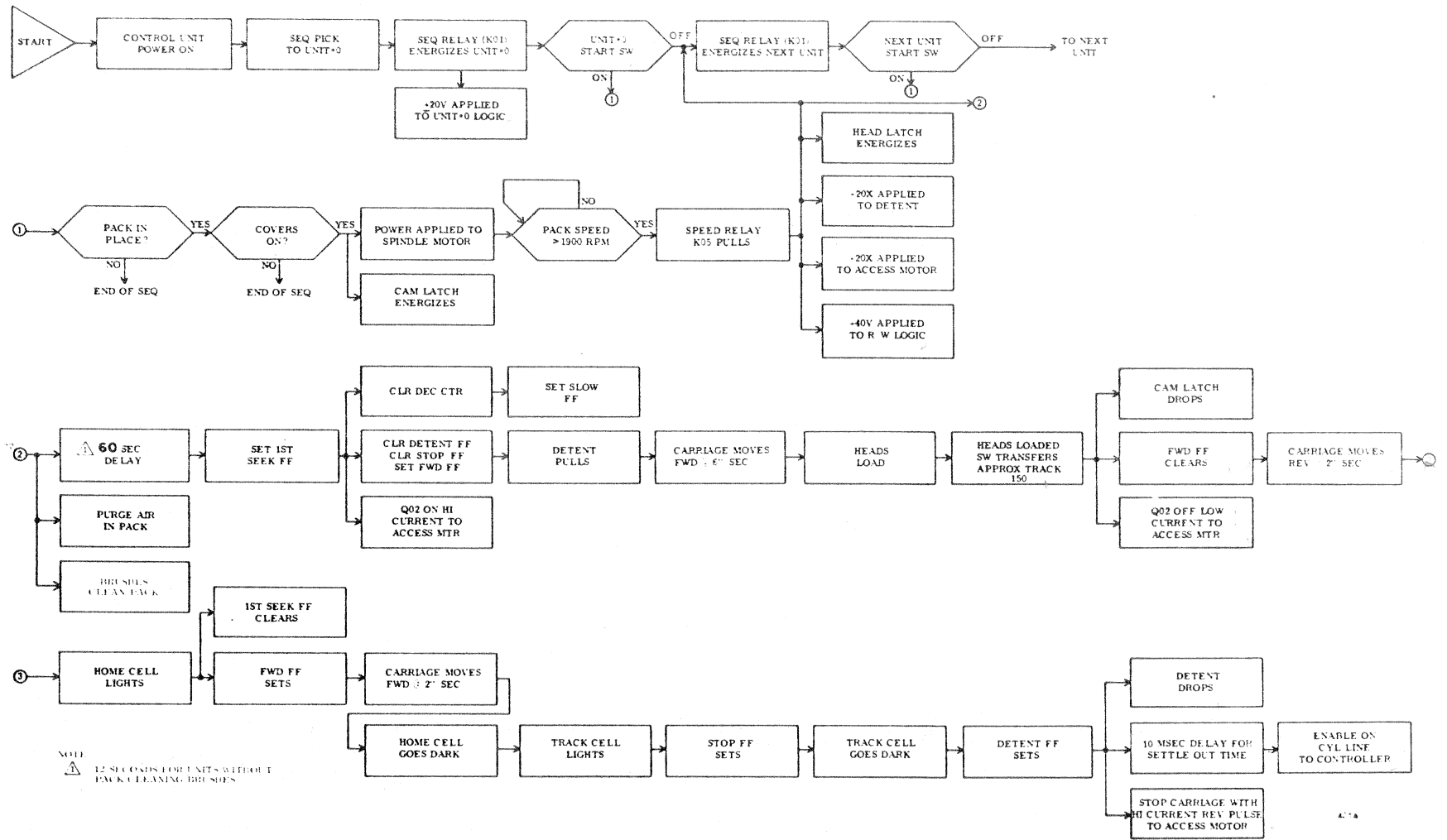


NOTES:  
 ① P230-T IS OPEN. J230-Y USED FOR TIE POINT ONLY.

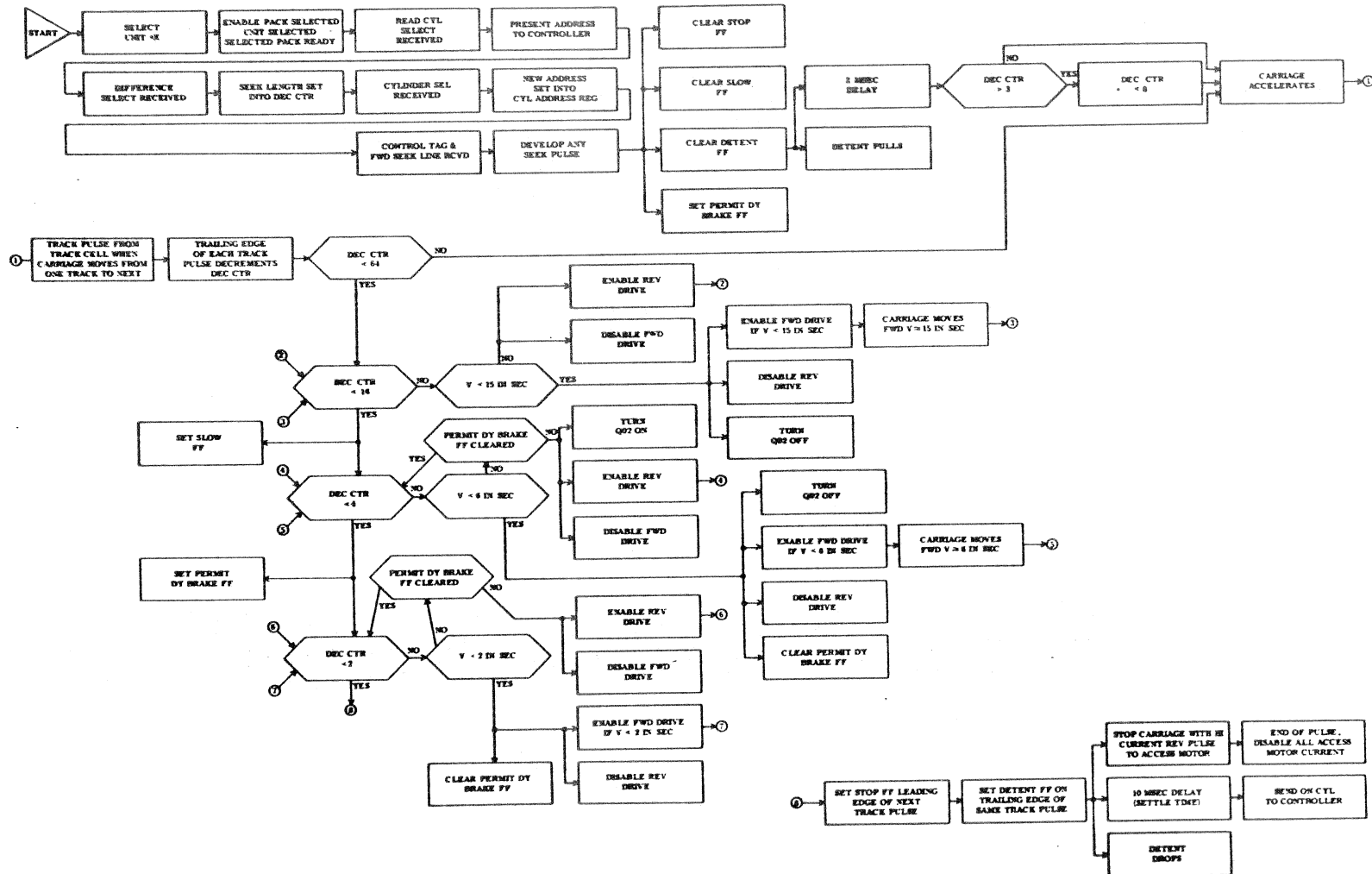
|  |                              |                               |
|--|------------------------------|-------------------------------|
| CONTROL DATA CORPORATION<br>DEVELOPMENT DIVISION | CARRIAGE WIRING<br>200 TRACK | PRODUCT<br>DISK STORAGE DRIVE |
|  |                              | DRAWING NO.<br>48445400       |
|  |                              | PAGE<br>A                     |



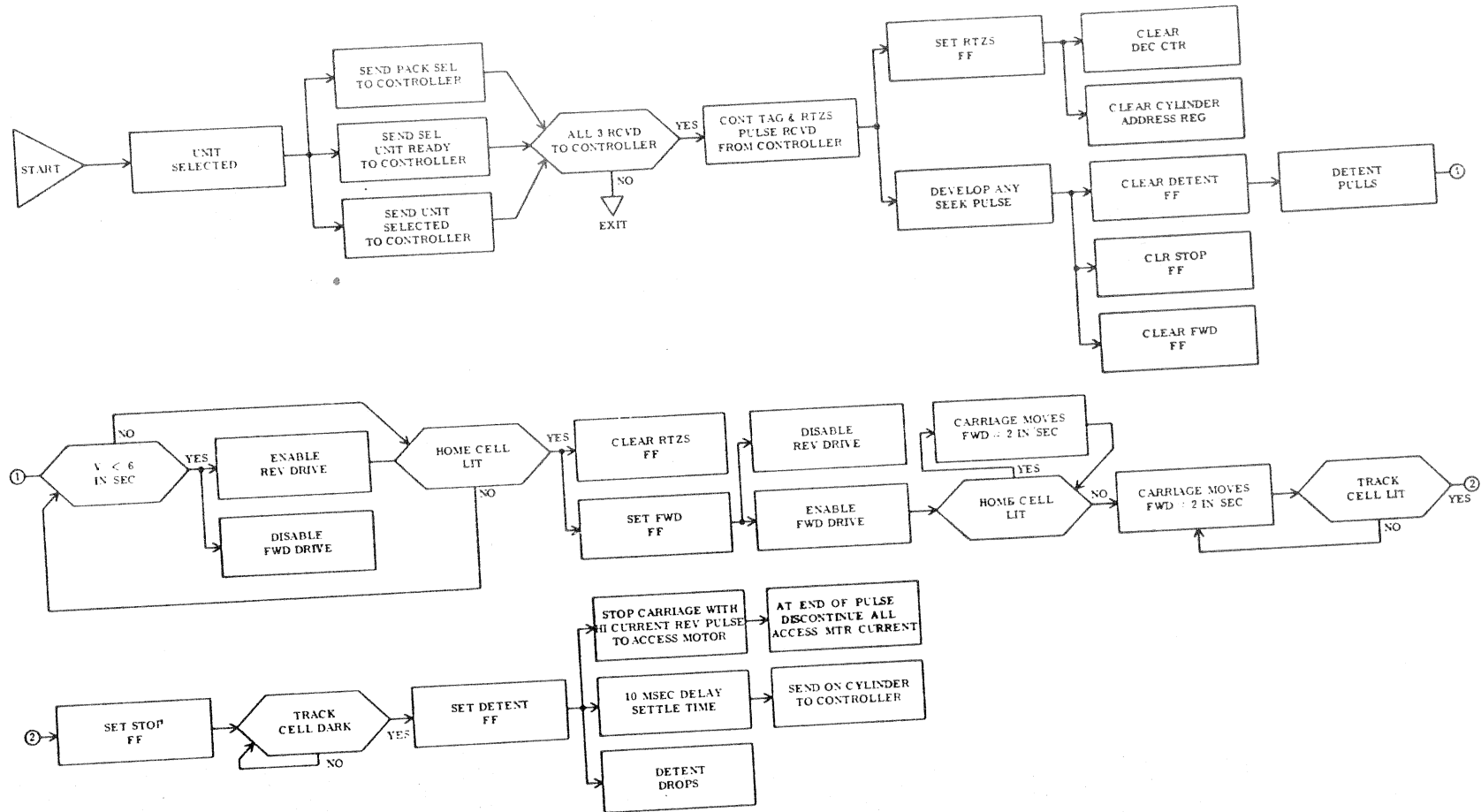




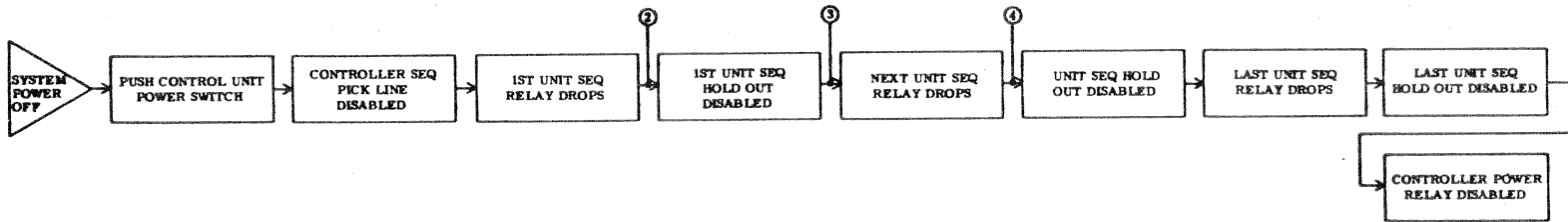
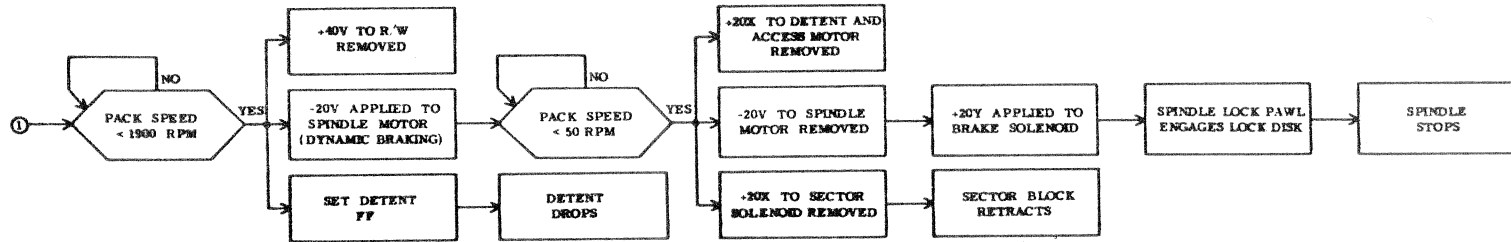
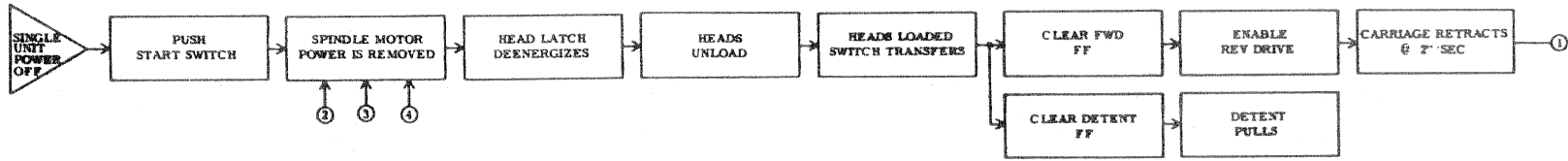








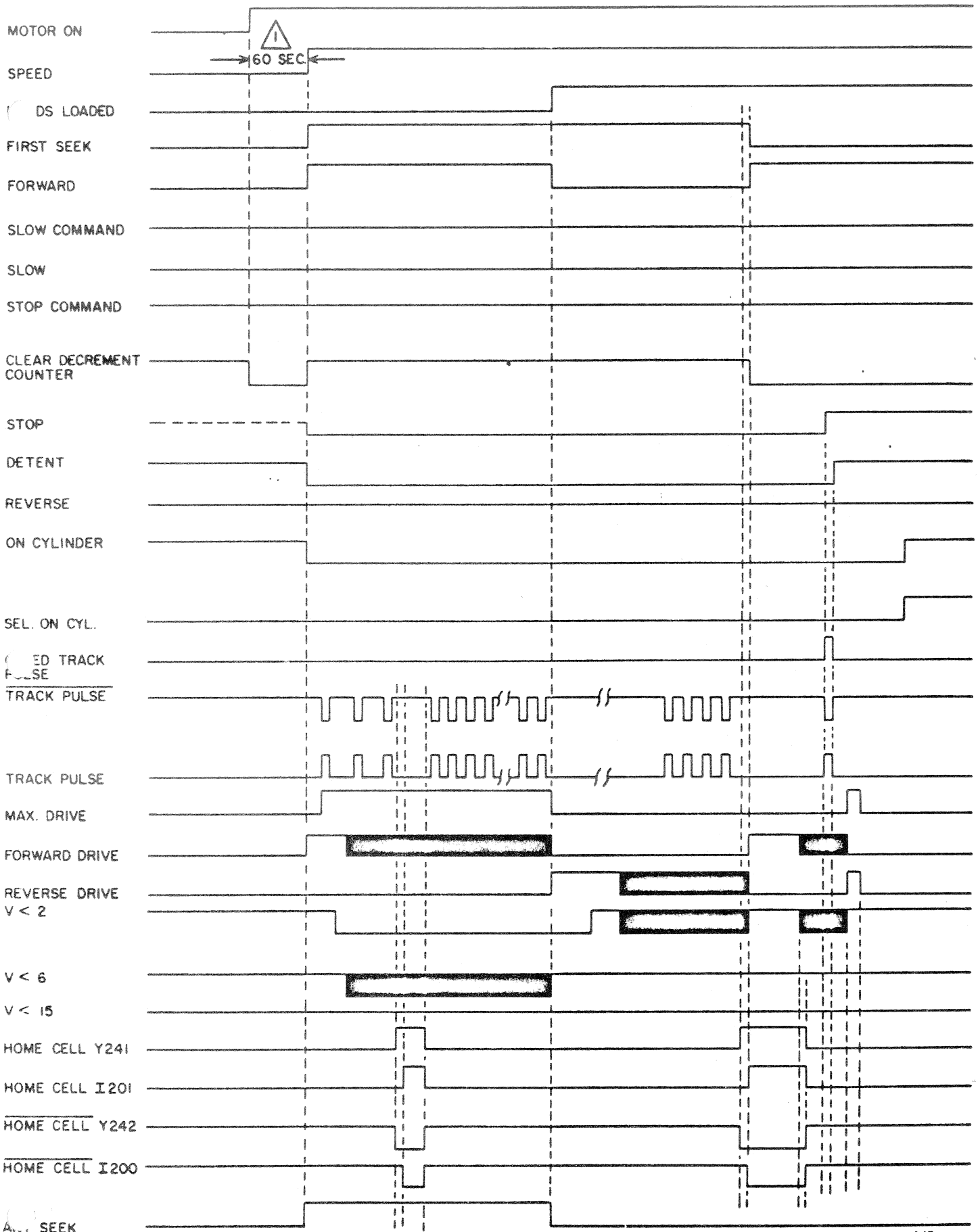





Power OFF Seek





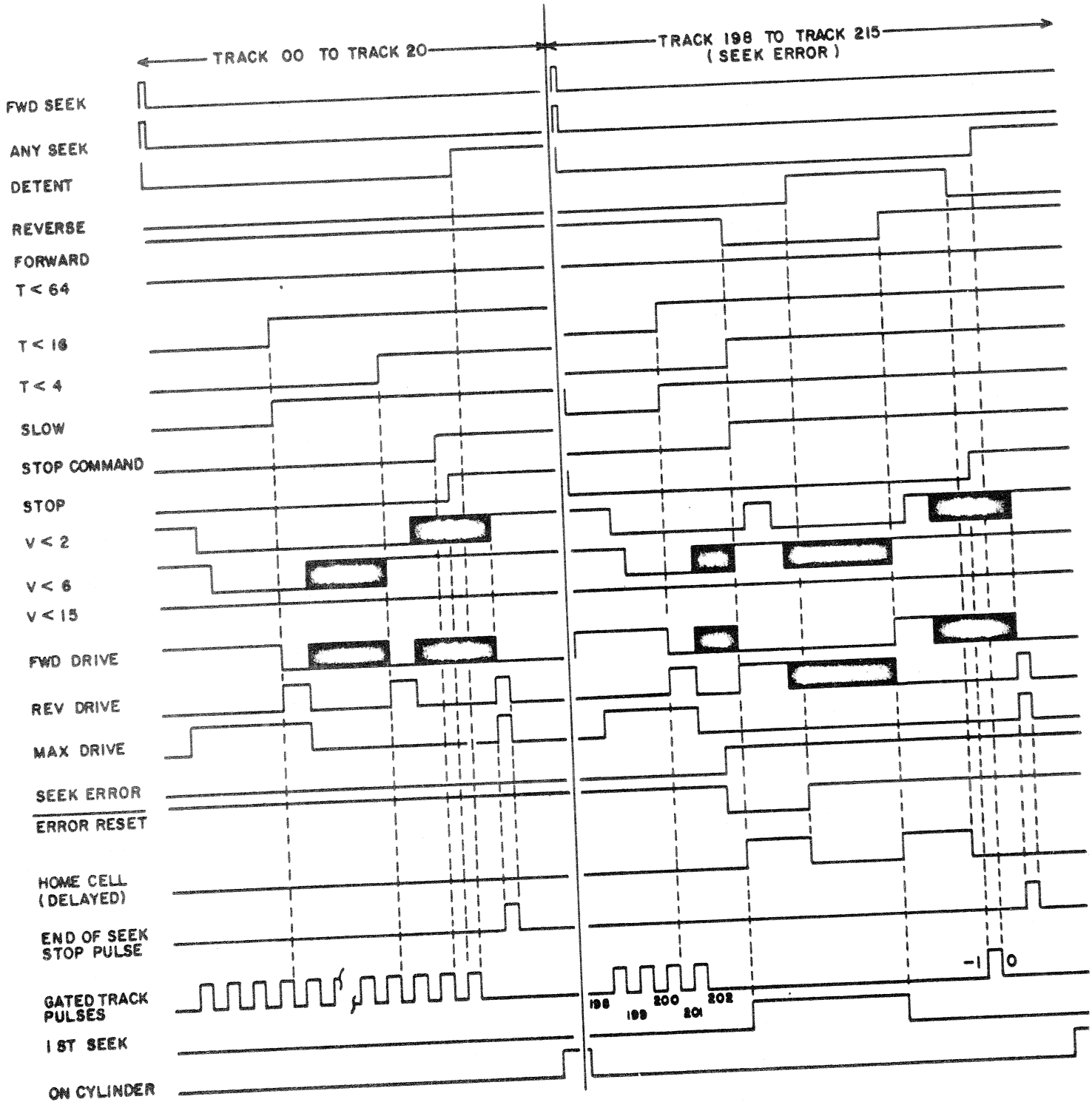


NOTE:  12 SEC. FOR UNITS WITHOUT PACK CLEANING BRUSHES.

FIRST SEEK

4J5A

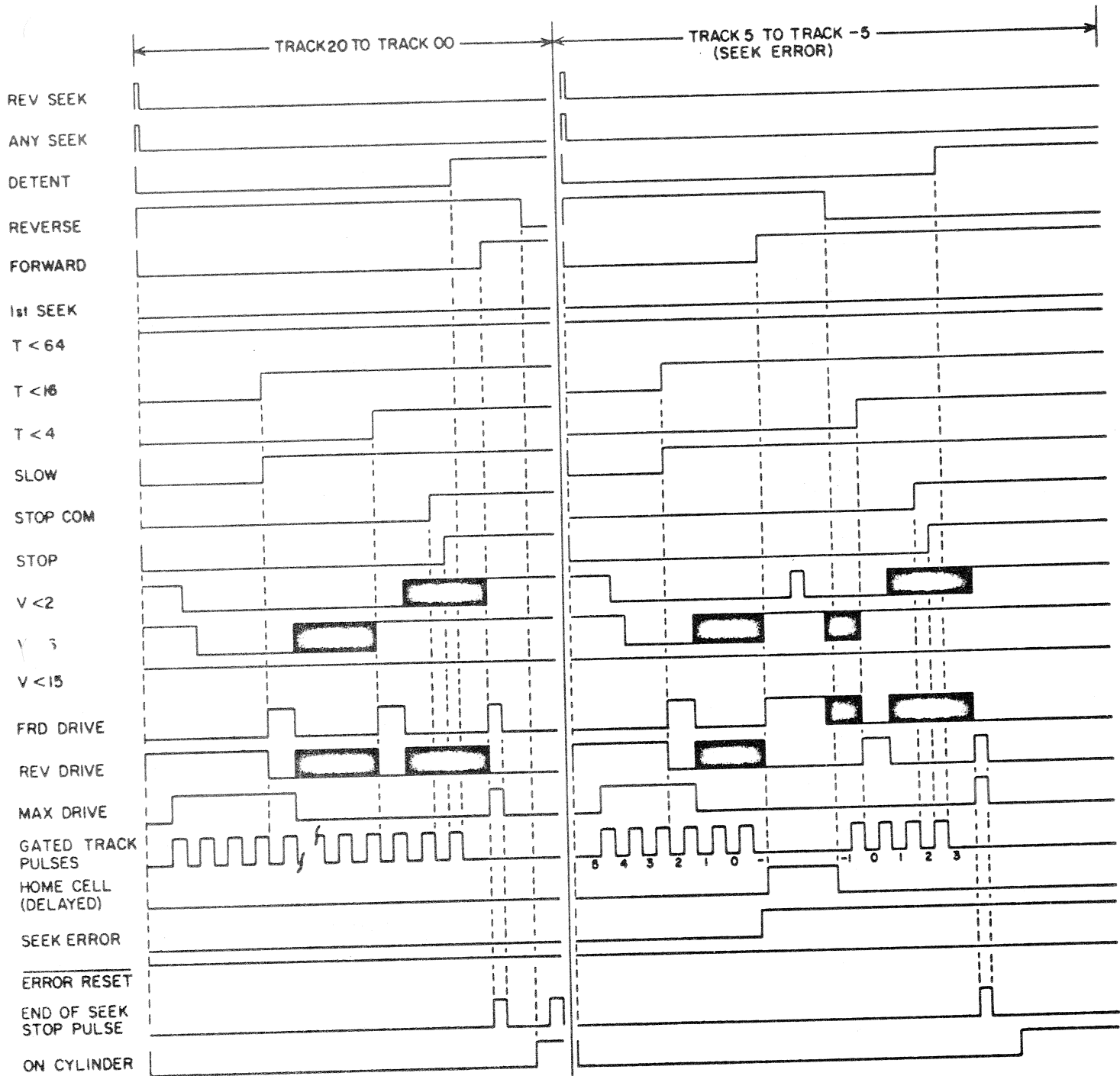




4J11

DIRECT SEEK FORWARD

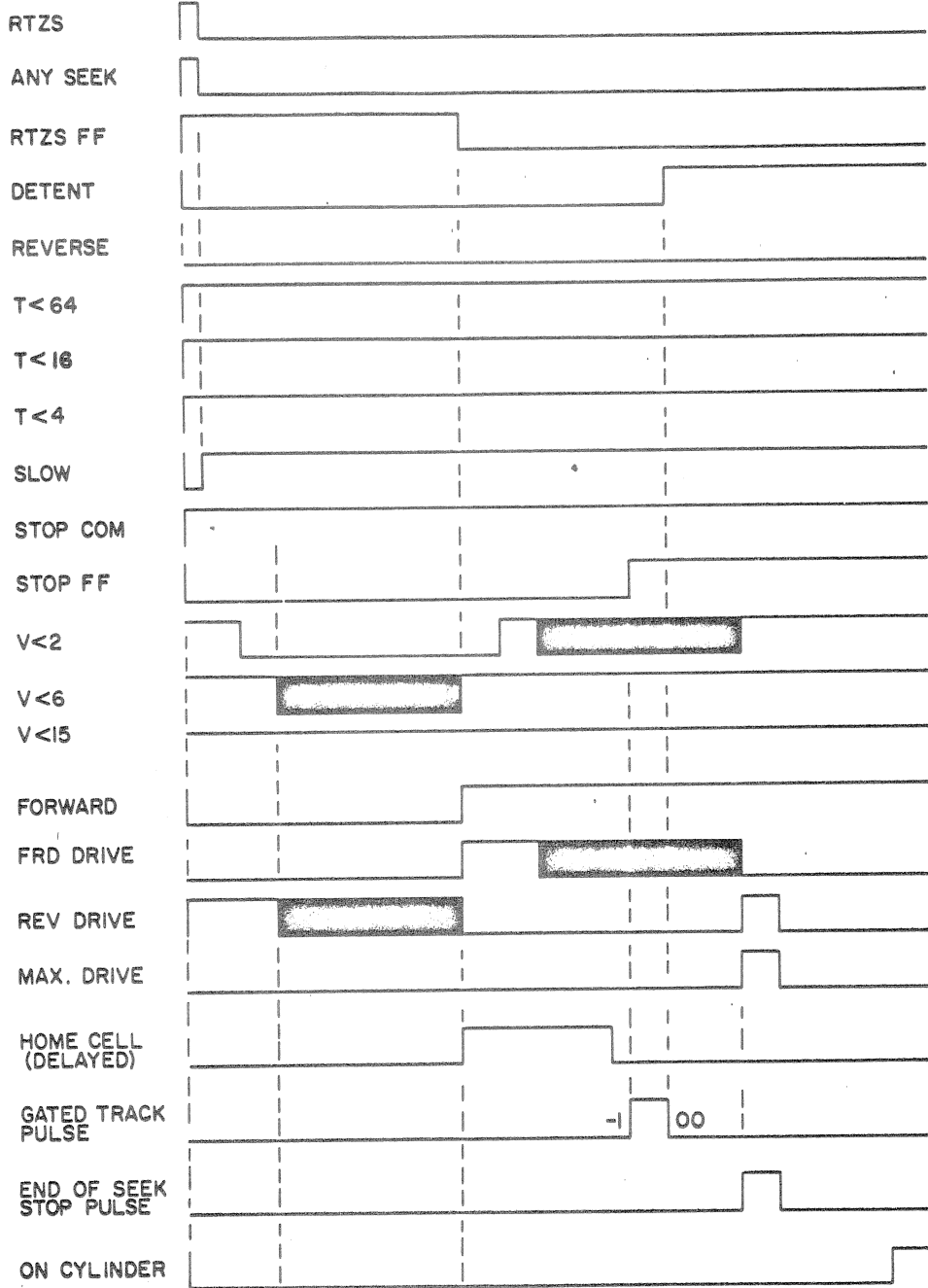




4J12

**DIRECT SEEK REVERSE**



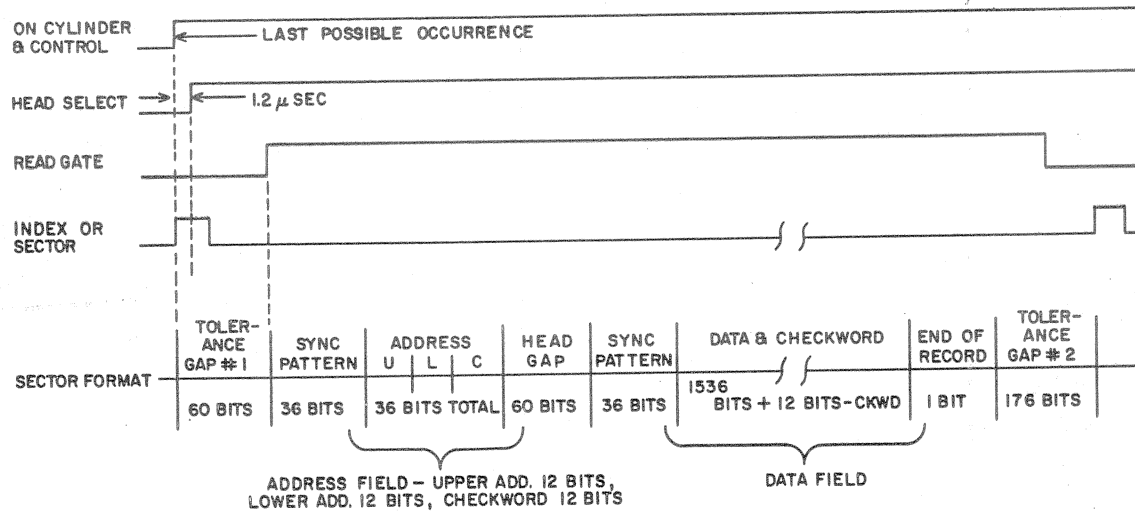


NOTE:  
 (1) THE LENGTH OF THIS TIME IS DIRECTLY  
 DEPENDENT UPON POSITION OF CARRIAGE  
 PRIOR TO DOING A RTZS.

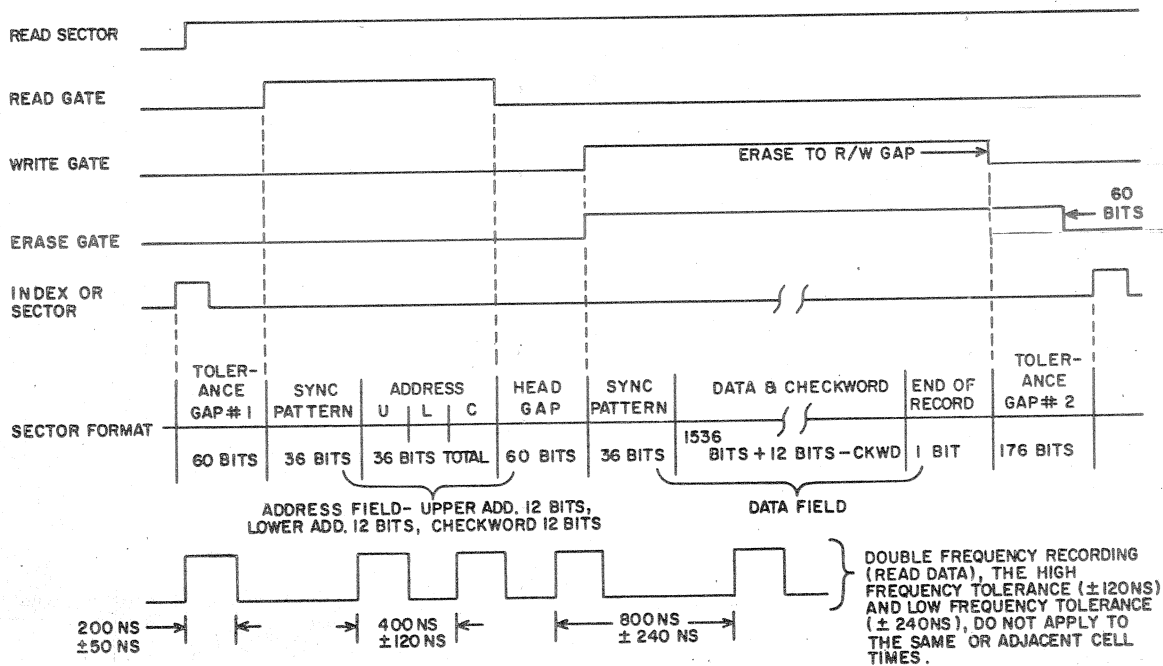
4J13

RT ZS



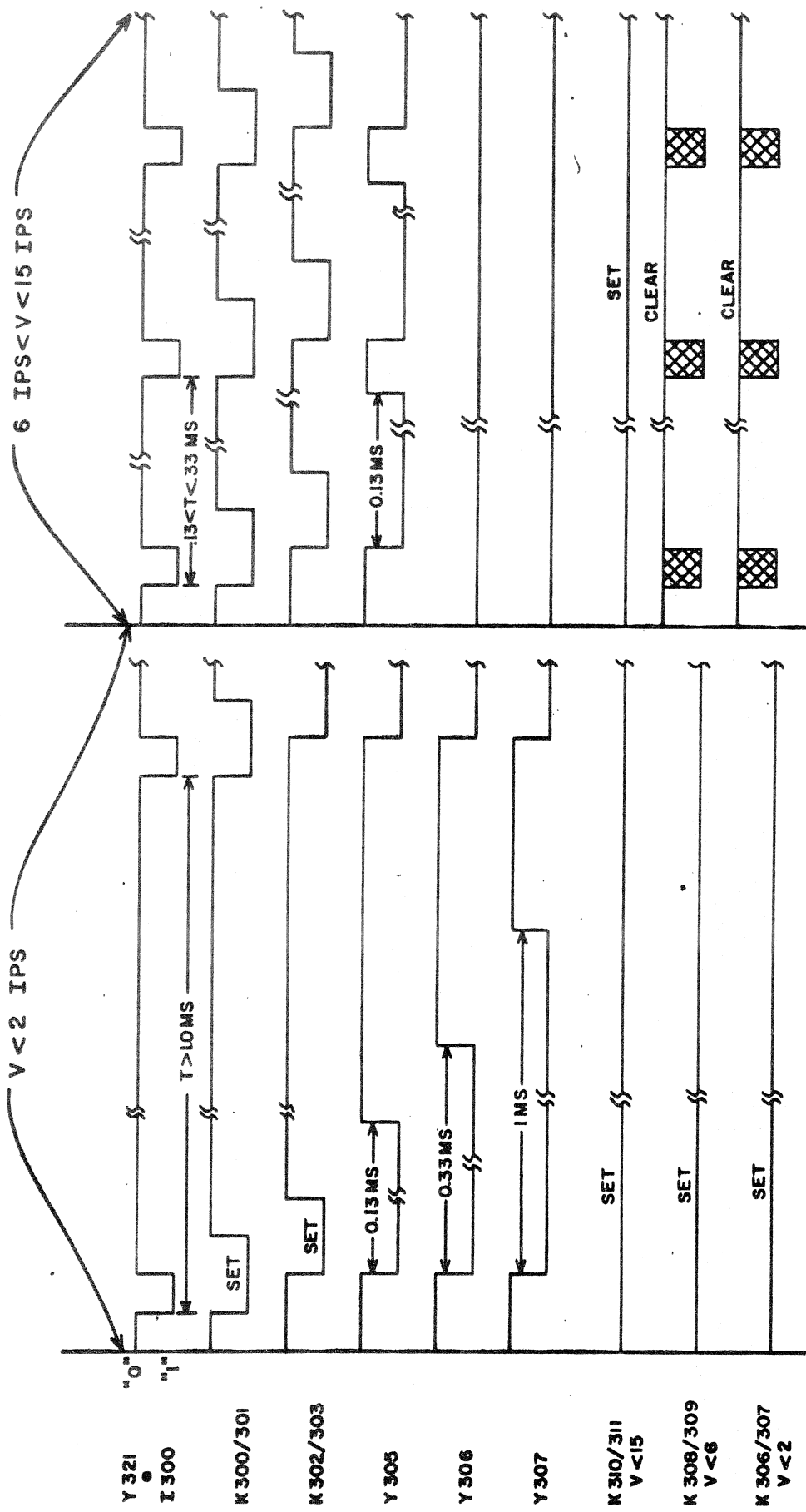


DATA & DATA CONTROL TIMING FOR READING ONE RECORD



DATA & DATA CONTROL TIMING FOR WRITING ONE RECORD

4J9A

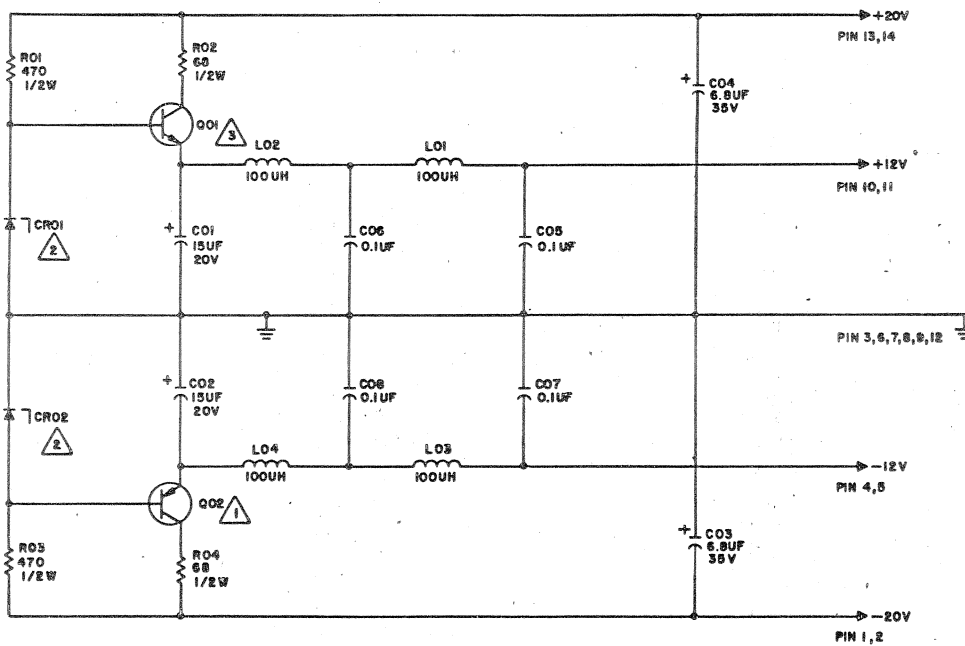


NOTE: CROSSHATCHING INDICATES TIMES THAT CLEARING SIGNALS ARE APPLIED TO FF.

4H10

SPEED CELL TIMING





NOTE:

- 1 PNP GERMANIUM 50220101.
- 2 ZENER 50240118.
- 3 NPN SILICON 50220800.

±12V. VOLTAGE REGULATOR



PART 2

CARD PLACEMENT

Card Placement information  
for the 9465 will be found  
on Page 1-11 in this manual.



PART 3

WIRE LISTS





## DESCRIPTION OF WIRE LISTS

The two types of wire lists are:

1. The line printer format which shows logic wiring.
2. The corporate (typed) form which shows non-logic wiring.

### LOGIC WIRE LISTS

The following is an example of the logic wire lists with an identification, and an explanation of the columns.

| Wire Identification | Wire Length | Wire Origin Location | Wire Origin Pin Number |          | Component Code |           | Wire Destination Location |   | Wire Destination Pin Number | Twisted Pair | Wire Size | Color Code  |   | Change Order |
|---------------------|-------------|----------------------|------------------------|----------|----------------|-----------|---------------------------|---|-----------------------------|--------------|-----------|-------------|---|--------------|
|                     |             |                      | 0                      | X        | 0              | X         | 0                         | X |                             |              |           | 0           | X |              |
| K10310              | 06          | A18                  | 07                     | 0        | B11            | 04        |                           |   |                             |              |           |             |   |              |
| K10311              | 05          | B11                  | 04                     | 0        | B20            | 05        |                           |   |                             |              |           |             |   |              |
| K10312              | 03          | B20                  | 05                     | 0        | B22            | 06        |                           |   |                             |              |           |             |   |              |
| K10320              | 04          | A18                  | 08                     | 0        | A13            | 11        |                           |   |                             |              |           |             |   |              |
| 600300              | 27          | J104                 | 33                     | X        | A38            | 12        |                           |   |                             | 20           | 4         | 0970        |   |              |
| 600310              | 25          | J104                 | 34                     | X        | A42            | 06        |                           |   |                             | 20           | 4         | 0970        |   |              |
| <b>600320</b>       | <b>25</b>   | <b>J104</b>          | <b>35</b>              | <b>X</b> | <b>A42</b>     | <b>12</b> |                           |   |                             | <b>20</b>    | <b>4</b>  | <b>0970</b> |   |              |
| 600330              | 58          | J104                 | 36                     | X        | A28            | 09        |                           |   |                             | 20           | 4         | 0970        |   |              |
| 600340              | 15          | J104                 | 37                     | X        | SHIELD         |           |                           |   |                             | E            | S         | 0970        |   |              |
| 600350              | 15          | J104                 | 38                     | X        | A02            | 01        |                           |   |                             | 24 E         | 0         | 0970        |   |              |

#### Wire Identification

If the first term in this column begins with a letter, the wire originates at a logic card; the letter and the first three digits represents the logic symbol of that card. If the first term begins with a numeral, the wire originates at a point other than logic, for



example at a switch or resistor. A sequential advance in the second to the last digit indicates additional inputs to the same card.

A sequential advance in the last digit indicates the interconnections of an AND input.

|                                  |   |                         |
|----------------------------------|---|-------------------------|
| K10310                           | } | Three input AND to K103 |
| K10311                           |   |                         |
| K10312                           |   |                         |
| K10320 - Single input OR to K103 |   |                         |

#### Wire Length

This column gives the wire length in inches.

#### Wire Origin Location

This column locates the origin of the wire on the logic chassis. Wires having a common signal at two or more locations are interconnected in series. In the sample, the first three wires shown have a common signal. The Wire Destination Location of the first wire becomes the Wire Origin Location of the second so that the series string is from A18 to B11 to B20 to B22. Note that the first four characters of the Wire Identification terms are the same for the three wires and that the sequencing is from 10 to 11 to 12 in the last two characters.

#### Wire Origin Pin Number

This column identifies the origin pin or terminal of the wire.

#### Component Code

This column identifies the components that are located in the Wire Origin Location column. The code letters are identified as follows:

0 - Logic Card

R - Miscellaneous Component (Switch, Resistor, etc.)

X - Jack

#### Wire Destination Location

This column locates the destination of the wire on the logic chassis.



### Wire Destination Pin Number

This column identifies the destination pin or terminal of the wire.

### Wire Size

This column identifies the size (AWG) of the wire.

### Twisted Pair

When two successive wires have the same letter in this column, this identifies them as a twisted pair.

### Color Code

Solid colored wires are identified by a one digit number in this column. Multicolored wires are identified by a number having two or three digits. Each digit of the number identifies one of the colors. The code numbers are identified as follows:

|           |            |            |            |           |            |
|-----------|------------|------------|------------|-----------|------------|
| 0 - Black | 2 - Red    | 4 - Yellow | 6 - Blue   | 8 - Gray  | S - Shield |
| 1 - Brown | 3 - Orange | 5 - Green  | 7 - Violet | 9 - White |            |

### Change Order

This column identifies the engineering, field, or publications change order that affected and/or altered that wire.



NON-LOGIC LISTS

| CONTROL DATA      |          | TITLE        |              | DOCUMENT NO.    |        | REV. |                 |             |    |                 |         |
|-------------------|----------|--------------|--------------|-----------------|--------|------|-----------------|-------------|----|-----------------|---------|
| COMPUTER DIVISION |          | WIRE LISTING |              |                 |        | WL   |                 |             |    |                 |         |
|                   |          | SHEET        |              | OF              |        |      |                 |             |    |                 |         |
| CONDUCTOR IDENT.  | PIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |      | ACCESS PIND NO. | DESTINATION |    | ACCESS PIND NO. | REMARKS |
| 20                | 29       | 24           | 993          | 03              | X12    | 03   |                 | X12         | 09 |                 |         |
| 21                | 29       | ↑            | 993          | 03              | X13    | 03   |                 | X13         | 09 |                 |         |
| 22                | 29       |              | 993          | 03              | X14    | 03   |                 | X14         | 09 |                 |         |
| 23                | 29       |              | 993          | 03              | X15    | 03   |                 | X15         | 09 |                 |         |
| 24                | 29       |              | 993          | 03              | X16    | 03   |                 | X16         | 09 |                 |         |

Wire lists other than logic are on a standard corporate form. The remaining columns of the form contain information NOT normally applicable to field usage and therefore are not explained.

The other columns indicate:

- Gauge (Ref) - Size of conductor (AWG)
- Color (Ref) - Color information
- Length (Approx) - Length of conductor in inches
- Origin - Origin point of conductor
- Destination - Destination point of conductor
- Remarks - Useful comments

In multi-digit color codes, the first digit denotes base color and the remaining digits denote tracer colors. The color codes for the non-logic lists are the same as those for logic wiring.





LW45480600 9465 DSD

|        |    |     |    |   |     |    |      |     |
|--------|----|-----|----|---|-----|----|------|-----|
| A40010 | 04 | C09 | 01 | 0 | C08 | 12 | 9465 | DSD |
| A40011 | 03 | C08 | 12 | 0 | C06 | 11 | 9465 | DSD |
| A40110 | 02 | C09 | 04 | 0 | C08 | 06 | 9465 | DSD |
| A40111 | 03 | C08 | 06 | 0 | C06 | 12 | 9465 | DSD |
| A40210 | 03 | C09 | 07 | 0 | C10 | 12 | 9465 | DSD |
| A40211 | 03 | C09 | 07 | 0 | C06 | 09 | 9465 | DSD |
| A40310 | 02 | C09 | 10 | 0 | C10 | 06 | 9465 | DSD |
| A40311 | 03 | C09 | 10 | 0 | C06 | 10 | 9465 | DSD |
| A40410 | 04 | C12 | 01 | 0 | C11 | 12 | 9465 | DSD |
| A40411 | 04 | C11 | 12 | 0 | C06 | 07 | 9465 | DSD |
| A40510 | 02 | C12 | 04 | 0 | C11 | 06 | 9465 | DSD |
| A40511 | 04 | C11 | 06 | 0 | C06 | 08 | 9465 | DSD |
| A40610 | 03 | C12 | 07 | 0 | C13 | 12 | 9465 | DSD |
| A40611 | 04 | C12 | 07 | 0 | C06 | 05 | 9465 | DSD |
| A40710 | 03 | C12 | 10 | 0 | C13 | 06 | 9465 | DSD |
| A40711 | 04 | C12 | 10 | 0 | C06 | 06 | 9465 | DSD |
| A41010 | 13 | C08 | 01 | 0 | C33 | 12 | 9465 | DSD |
| A41011 | 06 | C08 | 01 | 0 | D12 | 06 | 9465 | DSD |
| A41020 | 03 | C08 | 02 | 0 | C07 | 11 | 9465 | DSD |
| A41021 | 03 | C07 | 11 | 0 | C04 | 11 | 9465 | DSD |
| A41022 | 05 | C04 | 11 | 0 | P05 | 11 | 9465 | DSD |
| A41023 | 02 | C08 | 02 | 0 | C09 | 03 | 9465 | DSD |
| A41024 | 08 | C09 | 03 | 0 | D17 | 11 | 9465 | DSD |
| A41110 | 03 | C08 | 07 | 0 | C07 | 12 | 9465 | DSD |
| A41111 | 03 | C07 | 12 | 0 | C04 | 12 | 9465 | DSD |
| A41112 | 05 | C04 | 12 | 0 | P05 | 12 | 9465 | DSD |
| A41113 | 02 | C08 | 07 | 0 | C09 | 06 | 9465 | DSD |
| A41114 | 08 | C09 | 06 | 0 | D17 | 12 | 9465 | DSD |
| A41120 | 03 | C08 | 09 | 0 | C05 | 12 | 9465 | DSD |
| A41210 | 09 | C10 | 01 | 0 | D22 | 09 | 9465 | DSD |
| A41211 | 06 | C10 | 01 | 0 | D12 | 05 | 9465 | DSD |
| A41220 | 03 | C10 | 02 | 0 | C09 | 09 | 9465 | DSD |
| A41221 | 03 | C09 | 09 | 0 | C07 | 09 | 9465 | DSD |
| A41222 | 03 | C07 | 09 | 0 | C04 | 09 | 9465 | DSD |
| A41223 | 07 | C10 | 02 | 0 | D17 | 09 | 9465 | DSD |
| A41310 | 03 | C10 | 07 | 0 | C09 | 12 | 9465 | DSD |
| A41311 | 03 | C09 | 12 | 0 | C07 | 10 | 9465 | DSD |
| A41312 | 03 | C07 | 10 | 0 | C04 | 10 | 9465 | DSD |
| A41313 | 07 | C10 | 07 | 0 | D17 | 10 | 9465 | DSD |
| A41320 | 04 | C10 | 08 | 0 | C05 | 11 | 9465 | DSD |
| A41410 | 06 | C11 | 01 | 0 | D12 | 04 | 9465 | DSD |
| A41411 | 05 | D12 | 04 | 0 | D21 | 05 | 9465 | DSD |
| A41420 | 02 | C11 | 02 | 0 | C12 | 03 | 9465 | DSD |
| A41421 | 04 | C11 | 02 | 0 | C07 | 07 | 9465 | DSD |
| A41422 | 03 | C07 | 07 | 0 | C04 | 08 | 9465 | DSD |
| A41510 | 02 | C11 | 07 | 0 | C12 | 06 | 9465 | DSD |
| A41511 | 03 | C12 | 06 | 0 | C12 | 11 | 9465 | DSD |
| A41512 | 03 | C11 | 07 | 0 | C07 | 08 | 9465 | DSD |
| A41520 | 04 | C11 | 08 | 0 | C05 | 10 | 9465 | DSD |
| A41610 | 02 | C13 | 01 | 0 | C14 | 03 | 9465 | DSD |
| A41611 | 05 | C14 | 03 | 0 | D12 | 03 | 9465 | DSD |
| A41620 | 03 | C13 | 02 | 0 | C12 | 09 | 9465 | DSD |
| A41621 | 04 | C12 | 09 | 0 | C07 | 05 | 9465 | DSD |
| A41710 | 03 | C13 | 07 | 0 | C12 | 12 | 9465 | DSD |
| A41711 | 04 | C12 | 12 | 0 | C07 | 06 | 9465 | DSD |
| A41720 | 05 | C13 | 08 | 0 | C05 | 09 | 9465 | DSD |



|        |    |     |    |   |     |    |          |
|--------|----|-----|----|---|-----|----|----------|
| I00210 | 05 | D21 | 01 | 0 | C14 | 12 | 9465 DSD |
| I00310 | 02 | D21 | 04 | 0 | D21 | 03 | 9465 DSD |
| I00410 | 06 | D21 | 07 | 0 | C16 | 06 | 9465 DSD |
| I00610 | 05 | D23 | 01 | 0 | C16 | 12 | 9465 DSD |
| I00710 | 07 | C33 | 07 | 0 | D23 | 03 | 9465 DSD |
| I01410 | 04 | D23 | 04 | 0 | C20 | 12 | 9465 DSD |
| I01610 | 05 | D25 | 07 | 0 | C24 | 06 | 9465 DSD |
| I01611 | 11 | C24 | 06 | 0 | B02 | 08 | 9465 DSD |
| I01710 | 03 | D25 | 01 | 0 | D25 | 11 | 9465 DSD |
| I01810 | 07 | D13 | 07 | 0 | D25 | 12 | 9465 DSD |
| I01910 | 05 | D16 | 07 | 0 | D25 | 10 | 9465 DSD |
| I02010 | 04 | D26 | 01 | 0 | C24 | 12 | 9465 DSD |
| I02020 | 03 | D26 | 02 | 0 | D25 | 09 | 9465 DSD |
| I02110 | 03 | D12 | 07 | 0 | D13 | 11 | 9465 DSD |
| I02111 | 08 | D13 | 11 | 0 | C23 | 06 | 9465 DSD |
| I02210 | 03 | D12 | 01 | 0 | D12 | 12 | 9465 DSD |
| I02211 | 13 | D12 | 12 | 0 | A10 | 01 | 9465 DSD |
| I02212 | 02 | A10 | 01 | 0 | A10 | 02 | 9465 DSD |
| I02213 | 02 | A10 | 02 | 0 | A10 | 03 | 9465 DSD |
| I02310 | 04 | D11 | 01 | 0 | D13 | 12 | 9465 DSD |
| I02311 | 04 | D13 | 12 | 0 | D18 | 06 | 9465 DSD |
| I02312 | 05 | D18 | 06 | 0 | C23 | 12 | 9465 DSD |
| I02410 | 03 | D10 | 01 | 0 | D11 | 05 | 9465 DSD |
| I02510 | 08 | D27 | 07 | 0 | D11 | 06 | 9465 DSD |
| I02610 | 06 | B06 | 01 | 0 | C05 | 04 | 9465 DSD |
| I02611 | 03 | C05 | 04 | 0 | C03 | 10 | 9465 DSD |
| I02620 | 07 | B06 | 02 | 0 | C08 | 10 | 9465 DSD |
| I02621 | 04 | C08 | 10 | 0 | C04 | 02 | 9465 DSD |
| I02630 | 06 | B06 | 03 | 0 | C03 | 09 | 9465 DSD |
| I02631 | 11 | B06 | 03 | 0 | D14 | 10 | 9465 DSD |
| I02710 | 12 | D24 | 04 | 0 | B06 | 06 | 9465 DSD |
| I02810 | 08 | C27 | 07 | 0 | B14 | 06 | 9465 DSD |
| I02820 | 08 | C27 | 08 | 0 | B14 | 12 | 9465 DSD |
| I02910 | 02 | D22 | 07 | 0 | D21 | 09 | 9465 DSD |
| I03110 | 03 | D22 | 01 | 0 | D23 | 06 | 9465 DSD |
| I10010 | 04 | D16 | 01 | 0 | D13 | 10 | 9465 DSD |
| I10011 | 06 | D16 | 01 | 0 | C22 | 06 | 9465 DSD |
| I10110 | 08 | B11 | 07 | 0 | D16 | 04 | 9465 DSD |
| I10111 | 06 | B11 | 07 | 0 | A10 | 04 | 9465 DSD |
| I10112 | 02 | A10 | 04 | 0 | A10 | 05 | 9465 DSD |
| I10113 | 02 | A10 | 05 | 0 | A10 | 06 | 9465 DSD |
| I10210 | 03 | D17 | 01 | 0 | D16 | 05 | 9465 DSD |
| I10211 | 11 | D16 | 05 | 0 | A10 | 10 | 9465 DSD |
| I10212 | 02 | A10 | 10 | 0 | A10 | 11 | 9465 DSD |
| I10213 | 02 | A10 | 11 | 0 | A10 | 12 | 9465 DSD |
| I10310 | 10 | A13 | 01 | 0 | A32 | 06 | 9465 DSD |
| I10311 | 09 | A32 | 06 | 0 | C30 | 06 | 9465 DSD |
| I10312 | 13 | A13 | 01 | 0 | D16 | 06 | 9465 DSD |
| I10410 | 06 | D24 | 07 | 0 | D13 | 09 | 9465 DSD |
| I10411 | 05 | D24 | 07 | 0 | C22 | 12 | 9465 DSD |
| I10510 | 04 | B12 | 01 | 0 | A10 | 07 | 9465 DSD |
| I10511 | 02 | A10 | 07 | 0 | A10 | 08 | 9465 DSD |
| I10512 | 02 | A10 | 08 | 0 | A10 | 09 | 9465 DSD |
| I10513 | 11 | B12 | 01 | 0 | D24 | 08 | 9465 DSD |
| I10610 | 10 | B13 | 01 | 0 | A32 | 05 | 9465 DSD |
| I10611 | 09 | A32 | 05 | 0 | C30 | 05 | 9465 DSD |



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|        |    |     |    |   |     |    |      |     |
|--------|----|-----|----|---|-----|----|------|-----|
| I10612 | 11 | B13 | 01 | 0 | D24 | 09 | 9465 | DSD |
| I10710 | 04 | A32 | 01 | 0 | A29 | 09 | 9465 | DSD |
| I10720 | 04 | A32 | 02 | 0 | A28 | 07 | 9465 | DSD |
| I12010 | 07 | A14 | 01 | 0 | B22 | 05 | 9465 | DSD |
| I12020 | 07 | A14 | 02 | 0 | B20 | 11 | 9465 | DSD |
| I12030 | 06 | A14 | 03 | 0 | B09 | 08 | 9465 | DSD |
| I12110 | 05 | B09 | 10 | 0 | A14 | 12 | 9465 | DSD |
| I12210 | 08 | A15 | 01 | 0 | B22 | 11 | 9465 | DSD |
| I12220 | 07 | A15 | 02 | 0 | B09 | 12 | 9465 | DSD |
| I12230 | 07 | A15 | 03 | 0 | B21 | 11 | 9465 | DSD |
| I12310 | 08 | A16 | 01 | 0 | B24 | 11 | 9465 | DSD |
| I12320 | 04 | A16 | 02 | 0 | A16 | 14 | 9465 | DSD |
| I12330 | 08 | A16 | 03 | 0 | B23 | 11 | 9465 | DSD |
| I12410 | 09 | D23 | 10 | 0 | B22 | 02 | 9465 | DSD |
| I16010 | 02 | D14 | 01 | 0 | D15 | 02 | 9465 | DSD |
| I16011 | 03 | D15 | 02 | 0 | D15 | 11 | 9465 | DSD |
| I16020 | 03 | D14 | 02 | 0 | D17 | 03 | 9465 | DSD |
| I16110 | 10 | A11 | 01 | 0 | A32 | 04 | 9465 | DSD |
| I16111 | 09 | A32 | 04 | 0 | C30 | 04 | 9465 | DSD |
| I16112 | 12 | A11 | 01 | 0 | D14 | 05 | 9465 | DSD |
| I16210 | 10 | A12 | 01 | 0 | A32 | 03 | 9465 | DSD |
| I16211 | 09 | A32 | 03 | 0 | C30 | 03 | 9465 | DSD |
| I16212 | 12 | A12 | 01 | 0 | D14 | 06 | 9465 | DSD |
| I16310 | 09 | B09 | 07 | 0 | D15 | 05 | 9465 | DSD |
| I16311 | 03 | D15 | 05 | 0 | D15 | 09 | 9465 | DSD |
| I16410 | 04 | B11 | 01 | 0 | B09 | 09 | 9465 | DSD |
| I17010 | 09 | D28 | 01 | 0 | B26 | 05 | 9465 | DSD |
| I17020 | 08 | D28 | 02 | 0 | B25 | 11 | 9465 | DSD |
| I17030 | 04 | D28 | 03 | 0 | D28 | 14 | 9465 | DSD |
| I17110 | 06 | C34 | 01 | 0 | D28 | 05 | 9465 | DSD |
| I17210 | 06 | C34 | 04 | 0 | D28 | 06 | 9465 | DSD |
| I17211 | 08 | C34 | 04 | 0 | B23 | 03 | 9465 | DSD |
| I17212 | 03 | B23 | 03 | 0 | B24 | 05 | 9465 | DSD |
| I17310 | 02 | C34 | 07 | 0 | C34 | 06 | 9465 | DSD |
| I17410 | 05 | D27 | 01 | 0 | C34 | 09 | 9465 | DSD |
| I17411 | 09 | C34 | 09 | 0 | B22 | 08 | 9465 | DSD |
| I17412 | 03 | B22 | 08 | 0 | B21 | 03 | 9465 | DSD |
| I17710 | 02 | D28 | 07 | 0 | D27 | 06 | 9465 | DSD |
| I17720 | 04 | D28 | 08 | 0 | D23 | 12 | 9465 | DSD |
| I17730 | 10 | D28 | 09 | 0 | B21 | 10 | 9465 | DSD |
| I17810 | 06 | C34 | 10 | 0 | D28 | 12 | 9465 | DSD |
| I17811 | 09 | C34 | 10 | 0 | B20 | 03 | 9465 | DSD |
| I20010 | 09 | C36 | 01 | 0 | A34 | 03 | 9465 | DSD |
| I20011 | 10 | C36 | 01 | 0 | D20 | 06 | 9465 | DSD |
| I20110 | 03 | C33 | 01 | 0 | C36 | 06 | 9465 | DSD |
| I20210 | 08 | C27 | 01 | 0 | B14 | 03 | 9465 | DSD |
| I20211 | 06 | C27 | 01 | 0 | B36 | 05 | 9465 | DSD |
| I20220 | 08 | C27 | 02 | 0 | B14 | 05 | 9465 | DSD |
| I20310 | 07 | C35 | 01 | 0 | A33 | 12 | 9465 | DSD |
| I20320 | 07 | C35 | 02 | 0 | A34 | 12 | 9465 | DSD |
| I20321 | 04 | A34 | 12 | 0 | A39 | 12 | 9465 | DSD |
| I20330 | 08 | C35 | 03 | 0 | A29 | 12 | 9465 | DSD |
| I20340 | 03 | C35 | 04 | 0 | C35 | 14 | 9465 | DSD |
| I20410 | 05 | B28 | 10 | 0 | A26 | 12 | 9465 | DSD |
| I20510 | 12 | D23 | 07 | 0 | A28 | 08 | 9465 | DSD |
| I20610 | 07 | C31 | 01 | 0 | A28 | 12 | 9465 | DSD |



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|        |    |     |    |   |     |    |      |     |
|--------|----|-----|----|---|-----|----|------|-----|
| I20710 | 06 | B29 | 01 | 0 | C31 | 06 | 9465 | DSD |
| I20810 | 10 | C40 | 01 | 0 | D23 | 09 | 9465 | DSD |
| I20820 | 07 | C40 | 02 | 0 | B29 | 12 | 9465 | DSD |
| I20910 | 08 | C30 | 01 | 0 | A33 | 07 | 9465 | DSD |
| I21010 | 08 | C31 | 07 | 0 | A31 | 12 | 9465 | DSD |
| I21110 | 09 | D24 | 10 | 0 | B29 | 11 | 9465 | DSD |
| I21210 | 03 | A33 | 01 | 0 | A31 | 06 | 9465 | DSD |
| I21310 | 06 | C39 | 01 | 0 | B30 | 06 | 9465 | DSD |
| I21410 | 05 | B28 | 04 | 0 | A29 | 06 | 9465 | DSD |
| I21411 | 05 | B28 | 04 | 0 | C28 | 06 | 9465 | DSD |
| I21710 | 09 | C35 | 07 | 0 | C20 | 03 | 9465 | DSD |
| I21711 | 07 | C20 | 03 | 0 | D27 | 12 | 9465 | DSD |
| I21720 | 03 | C35 | 08 | 0 | C34 | 12 | 9465 | DSD |
| I21721 | 07 | C34 | 12 | 0 | D27 | 11 | 9465 | DSD |
| I21722 | 04 | D27 | 11 | 0 | D22 | 08 | 9465 | DSD |
| I21730 | 04 | C35 | 09 | 0 | C31 | 05 | 9465 | DSD |
| I21731 | 08 | C31 | 05 | 0 | A33 | 11 | 9465 | DSD |
| I21740 | 02 | C35 | 10 | 0 | C34 | 11 | 9465 | DSD |
| I21741 | 09 | C34 | 11 | 0 | C18 | 09 | 9465 | DSD |
| I21742 | 07 | C18 | 09 | 0 | D10 | 05 | 9465 | DSD |
| I21810 | 03 | C36 | 07 | 0 | C35 | 12 | 9465 | DSD |
| I21910 | 12 | D35 | 10 | 0 | A34 | 06 | 9465 | DSD |
| I22010 | 02 | B28 | 07 | 0 | B29 | 10 | 9465 | DSD |
| I22011 | 07 | B29 | 10 | 0 | C38 | 12 | 9465 | DSD |
| I22110 | 08 | C29 | 01 | 0 | A36 | 12 | 9465 | DSD |
| I22210 | 06 | D35 | 07 | 0 | C38 | 06 | 9465 | DSD |
| I22310 | 03 | A32 | 07 | 0 | A29 | 11 | 9465 | DSD |
| I22320 | 02 | A32 | 08 | 0 | A31 | 11 | 9465 | DSD |
| I22610 | 02 | C29 | 07 | 0 | C28 | 05 | 9465 | DSD |
| I22611 | 03 | C29 | 07 | 0 | C32 | 11 | 9465 | DSD |
| I22612 | 05 | C32 | 11 | 0 | D35 | 11 | 9465 | DSD |
| I22710 | 06 | B28 | 01 | 0 | C29 | 08 | 9465 | DSD |
| I22810 | 12 | D24 | 01 | 0 | A29 | 02 | 9465 | DSD |
| I22910 | 09 | B05 | 04 | 0 | D13 | 02 | 9465 | DSD |
| I30010 | 04 | B37 | 01 | 0 | A37 | 10 | 9465 | DSD |
| I30011 | 03 | A37 | 10 | 0 | A35 | 03 | 9465 | DSD |
| I30110 | 04 | B37 | 04 | 0 | B34 | 12 | 9465 | DSD |
| I30210 | 03 | B37 | 07 | 0 | B35 | 12 | 9465 | DSD |
| I30310 | 02 | B37 | 10 | 0 | B36 | 12 | 9465 | DSD |
| I30410 | 08 | C39 | 07 | 0 | D27 | 05 | 9465 | DSD |
| I30510 | 06 | B39 | 01 | 0 | B30 | 12 | 9465 | DSD |
| I30511 | 06 | B39 | 01 | 0 | C42 | 06 | 9465 | DSD |
| I30520 | 05 | B39 | 02 | 0 | B31 | 06 | 9465 | DSD |
| I30530 | 06 | B39 | 03 | 0 | C43 | 05 | 9465 | DSD |
| I30531 | 08 | B39 | 03 | 0 | C30 | 12 | 9465 | DSD |
| I30540 | 04 | B39 | 04 | 0 | B36 | 09 | 9465 | DSD |
| I30541 | 06 | B36 | 09 | 0 | C39 | 11 | 9465 | DSD |
| I30542 | 05 | C39 | 11 | 0 | C31 | 12 | 9465 | DSD |
| I30610 | 04 | B40 | 01 | 0 | B38 | 11 | 9465 | DSD |
| I30611 | 05 | B38 | 11 | 0 | B31 | 05 | 9465 | DSD |
| I30612 | 04 | B31 | 05 | 0 | A32 | 11 | 9465 | DSD |
| I30613 | 06 | B40 | 01 | 0 | C39 | 06 | 9465 | DSD |
| I30614 | 03 | C39 | 06 | 0 | C41 | 05 | 9465 | DSD |
| I30620 | 03 | B40 | 02 | 0 | B39 | 06 | 9465 | DSD |
| I30621 | 04 | B40 | 02 | 0 | A43 | 12 | 9465 | DSD |
| I30622 | 03 | A43 | 12 | 0 | A43 | 06 | 9465 | DSD |





|        |    |     |    |   |     |    |          |
|--------|----|-----|----|---|-----|----|----------|
| I30630 | 07 | B40 | 03 | 0 | B29 | 09 | 9465 DSD |
| I30631 | 03 | B29 | 09 | 0 | B26 | 09 | 9465 DSD |
| I30632 | 06 | B26 | 09 | 0 | C29 | 12 | 9465 DSD |
| I30633 | 04 | C29 | 12 | 0 | C33 | 04 | 9465 DSD |
| I30640 | 06 | B40 | 04 | 0 | B31 | 04 | 9465 DSD |
| I30641 | 04 | B31 | 04 | 0 | A32 | 10 | 9465 DSD |
| I30642 | 06 | B40 | 04 | 0 | C43 | 04 | 9465 DSD |
| I30643 | 07 | C43 | 04 | 0 | C30 | 11 | 9465 DSD |
| I30710 | 04 | C30 | 07 | 0 | C34 | 03 | 9465 DSD |
| I30810 | 05 | C44 | 07 | 0 | B42 | 09 | 9465 DSD |
| I30811 | 05 | B42 | 09 | 0 | C37 | 04 | 9465 DSD |
| I30820 | 03 | C44 | 08 | 0 | C42 | 14 | 9465 DSD |
| I30910 | 06 | B39 | 07 | 0 | C39 | 10 | 9465 DSD |
| I30911 | 06 | C39 | 10 | 0 | B36 | 10 | 9465 DSD |
| I30912 | 08 | B39 | 07 | 0 | A29 | 03 | 9465 DSD |
| I30913 | 05 | A29 | 03 | 0 | C30 | 02 | 9465 DSD |
| I30920 | 05 | B39 | 08 | 0 | C42 | 05 | 9465 DSD |
| I30921 | 08 | C42 | 05 | 0 | B30 | 09 | 9465 DSD |
| I30930 | 05 | B39 | 09 | 0 | B31 | 12 | 9465 DSD |
| I30940 | 05 | B39 | 10 | 0 | C43 | 03 | 9465 DSD |
| I30941 | 07 | C43 | 03 | 0 | C31 | 11 | 9465 DSD |
| I30942 | 02 | C31 | 11 | 0 | C30 | 10 | 9465 DSD |
| I31010 | 03 | B40 | 07 | 0 | B39 | 12 | 9465 DSD |
| I31020 | 06 | B40 | 08 | 0 | B31 | 11 | 9465 DSD |
| I31021 | 05 | B31 | 11 | 0 | C31 | 10 | 9465 DSD |
| I31022 | 02 | C31 | 10 | 0 | C30 | 09 | 9465 DSD |
| I31023 | 08 | C30 | 09 | 0 | C43 | 02 | 9465 DSD |
| I31030 | 03 | B40 | 09 | 0 | B40 | 14 | 9465 DSD |
| I31040 | 03 | B40 | 10 | 0 | B38 | 10 | 9465 DSD |
| I31041 | 05 | B38 | 10 | 0 | B31 | 10 | 9465 DSD |
| I31042 | 05 | B31 | 10 | 0 | C31 | 09 | 9465 DSD |
| I31043 | 05 | C31 | 09 | 0 | C39 | 05 | 9465 DSD |
| I31044 | 03 | C39 | 05 | 0 | C41 | 03 | 9465 DSD |
| I31110 | 08 | C40 | 07 | 0 | D28 | 10 | 9465 DSD |
| I31120 | 08 | C40 | 08 | 0 | D27 | 04 | 9465 DSD |
| I31210 | 05 | B41 | 07 | 0 | C41 | 02 | 9465 DSD |
| I31211 | 04 | C41 | 02 | 0 | B43 | 12 | 9465 DSD |
| I31310 | 03 | D36 | 01 | 0 | D37 | 11 | 9465 DSD |
| I31311 | 06 | D37 | 11 | 0 | C37 | 03 | 9465 DSD |
| I31410 | 04 | C44 | 01 | 0 | C43 | 12 | 9465 DSD |
| I31411 | 10 | C43 | 12 | 0 | A37 | 02 | 9465 DSD |
| I31420 | 02 | C44 | 02 | 0 | C43 | 06 | 9465 DSD |
| I31510 | 02 | B41 | 01 | 0 | B40 | 06 | 9465 DSD |
| I31511 | 04 | B41 | 01 | 0 | A43 | 11 | 9465 DSD |
| I31610 | 03 | B41 | 04 | 0 | B40 | 12 | 9465 DSD |
| I31611 | 06 | B41 | 04 | 0 | A43 | 03 | 9465 DSD |
| I31710 | 03 | B41 | 10 | 0 | B44 | 12 | 9465 DSD |
| I31711 | 05 | B41 | 10 | 0 | A43 | 10 | 9465 DSD |
| I31712 | 03 | A43 | 10 | 0 | A43 | 04 | 9465 DSD |
| I31810 | 08 | D36 | 07 | 0 | B42 | 12 | 9465 DSD |
| I32010 | 03 | D35 | 01 | 0 | D35 | 08 | 9465 DSD |
| I32011 | 06 | D35 | 01 | 0 | C28 | 12 | 9465 DSD |
| I32110 | 02 | D35 | 04 | 0 | D35 | 09 | 9465 DSD |
| I32111 | 07 | D35 | 04 | 0 | C28 | 04 | 9465 DSD |
| I32210 | 11 | D11 | 07 | 0 | D33 | 12 | 9465 DSD |
| I32211 | 02 | D33 | 12 | 0 | D34 | 11 | 9465 DSD |



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|        |    |     |    |   |     |    |      |     |
|--------|----|-----|----|---|-----|----|------|-----|
| I32310 | 12 | A43 | 01 | 0 | D35 | 02 | 9465 | DSD |
| I32311 | 04 | D35 | 02 | 0 | D32 | 12 | 9465 | DSD |
| I32312 | 11 | D32 | 12 | 0 | D11 | 10 | 9465 | DSD |
| I32410 | 12 | A43 | 07 | 0 | D35 | 05 | 9465 | DSD |
| I32411 | 04 | D35 | 05 | 0 | D32 | 09 | 9465 | DSD |
| I32412 | 11 | D32 | 09 | 0 | D11 | 12 | 9465 | DSD |
| I44010 | 10 | B01 | 01 | 0 | C18 | 04 | 9465 | DSD |
| I44011 | 08 | C18 | 04 | 0 | D10 | 12 | 9465 | DSD |
| I44110 | 02 | B02 | 10 | 0 | B01 | 06 | 9465 | DSD |
| I44210 | 08 | B01 | 07 | 0 | C14 | 06 | 9465 | DSD |
| I44211 | 06 | C14 | 06 | 0 | D10 | 11 | 9465 | DSD |
| I44410 | 03 | B02 | 01 | 0 | B01 | 11 | 9465 | DSD |
| I44411 | 03 | B02 | 01 | 0 | B03 | 08 | 9465 | DSD |
| I44510 | 05 | B09 | 04 | 0 | B01 | 05 | 9465 | DSD |
| I44511 | 03 | B01 | 05 | 0 | B01 | 10 | 9465 | DSD |
| I44610 | 02 | B02 | 04 | 0 | B02 | 03 | 9465 | DSD |
| I44611 | 03 | B02 | 04 | 0 | B02 | 09 | 9465 | DSD |
| I44710 | 05 | B02 | 07 | 0 | B08 | 08 | 9465 | DSD |
| I44810 | 04 | B09 | 01 | 0 | B04 | 04 | 9465 | DSD |
| I44811 | 03 | B04 | 04 | 0 | B01 | 04 | 9465 | DSD |
| I44812 | 03 | B01 | 04 | 0 | B01 | 09 | 9465 | DSD |
| I44910 | 12 | B04 | 01 | 0 | D21 | 06 | 9465 | DSD |
| I44911 | 04 | D21 | 06 | 0 | D27 | 10 | 9465 | DSD |
| I45010 | 05 | C02 | 01 | 0 | C08 | 11 | 9465 | DSD |
| I45020 | 06 | C02 | 02 | 0 | C10 | 11 | 9465 | DSD |
| I45110 | 05 | C04 | 01 | 0 | C10 | 05 | 9465 | DSD |
| I45210 | 05 | C05 | 01 | 0 | C11 | 05 | 9465 | DSD |
| I45220 | 06 | C05 | 02 | 0 | C13 | 11 | 9465 | DSD |
| I45310 | 07 | C02 | 07 | 0 | C13 | 10 | 9465 | DSD |
| I45320 | 06 | C02 | 08 | 0 | C11 | 11 | 9465 | DSD |
| I45410 | 06 | C03 | 01 | 0 | C11 | 10 | 9465 | DSD |
| I45420 | 06 | C03 | 02 | 0 | C13 | 05 | 9465 | DSD |
| I45510 | 06 | D14 | 07 | 0 | C13 | 04 | 9465 | DSD |
| I45520 | 06 | D14 | 08 | 0 | C11 | 04 | 9465 | DSD |
| I45610 | 05 | C03 | 07 | 0 | C08 | 05 | 9465 | DSD |
| I45620 | 05 | C03 | 08 | 0 | C10 | 10 | 9465 | DSD |
| I45710 | 10 | B04 | 07 | 0 | D09 | 12 | 9465 | DSD |
| I45810 | 10 | B03 | 01 | 0 | D09 | 11 | 9465 | DSD |
| I45910 | 04 | D21 | 10 | 0 | D25 | 04 | 9465 | DSD |
| I45911 | 10 | D21 | 10 | 0 | C38 | 09 | 9465 | DSD |
| I45912 | 06 | C38 | 09 | 0 | C29 | 03 | 9465 | DSD |
| I45913 | 12 | C29 | 03 | 0 | B06 | 05 | 9465 | DSD |
| I45914 | 02 | B06 | 05 | 0 | B06 | 10 | 9465 | DSD |
| I45915 | 12 | C29 | 03 | 0 | B06 | 05 | 9465 | DSD |
| I46010 | 05 | C04 | 07 | 0 | C12 | 08 | 9465 | DSD |
| I46110 | 06 | B05 | 10 | 0 | C09 | 08 | 9465 | DSD |
| I46210 | 07 | D17 | 07 | 0 | C12 | 02 | 9465 | DSD |
| I46310 | 05 | C06 | 01 | 0 | B07 | 05 | 9465 | DSD |
| I46320 | 05 | C06 | 02 | 0 | B07 | 09 | 9465 | DSD |
| I46410 | 10 | C07 | 01 | 0 | D22 | 06 | 9465 | DSD |
| I46420 | 06 | C07 | 02 | 0 | D11 | 04 | 9465 | DSD |
| I46510 | 07 | C05 | 07 | 0 | D12 | 11 | 9465 | DSD |
| I46511 | 06 | D12 | 11 | 0 | D22 | 12 | 9465 | DSD |
| I46520 | 06 | C05 | 08 | 0 | D11 | 03 | 9465 | DSD |
| I46521 | 03 | D11 | 03 | 0 | D12 | 10 | 9465 | DSD |
| I46610 | 08 | B06 | 07 | 0 | C16 | 09 | 9465 | DSD |

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| I46611 | 06 | C16 | 09 | 0 | D10 | 09 | 9465 | DSD |
| I46620 | 09 | B06 | 08 | 0 | C20 | 09 | 9465 | DSD |
| I46621 | 09 | B06 | 08 | 0 | D10 | 08 | 9465 | DSD |
| I46630 | 09 | B06 | 09 | 0 | D12 | 02 | 9465 | DSD |
| I46710 | 03 | B05 | 07 | 0 | B06 | 12 | 9465 | DSD |
| I46810 | 03 | B05 | 01 | 0 | B04 | 06 | 9465 | DSD |
| I46910 | 02 | C01 | 04 | 0 | C01 | 03 | 9465 | DSD |
| I47010 | 02 | C01 | 10 | 0 | C01 | 09 | 9465 | DSD |
| I47110 | 02 | C01 | 07 | 0 | C02 | 04 | 9465 | DSD |
| I47111 | 02 | C02 | 04 | 0 | C03 | 04 | 9465 | DSD |
| I47112 | 05 | C03 | 04 | 0 | B03 | 07 | 9465 | DSD |
| I47210 | 02 | C01 | 01 | 0 | C02 | 03 | 9465 | DSD |
| I47211 | 03 | C02 | 03 | 0 | C02 | 10 | 9465 | DSD |
| I47212 | 06 | C02 | 10 | 0 | B03 | 06 | 9465 | DSD |
| I47310 | 02 | D22 | 04 | 0 | D22 | 03 | 9465 | DSD |
| I47311 | 09 | D22 | 03 | 0 | B10 | 10 | 9465 | DSD |
| I47312 | 02 | B10 | 10 | 0 | B10 | 09 | 9465 | DSD |
| I47410 | 08 | D22 | 10 | 0 | C33 | 09 | 9465 | DSD |
| I47411 | 12 | C33 | 09 | 0 | B10 | 12 | 9465 | DSD |
| I47412 | 02 | B10 | 12 | 0 | B10 | 11 | 9465 | DSD |
| I48110 | 08 | D02 | 04 | 0 | B01 | 08 | 9465 | DSD |

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|--------|----|-----|----|---|-----|----|------|-----|
| I48210 | 03 | D03 | 01 | 0 | D02 | 05 | 9465 | DSD |
| I48220 | 04 | D03 | 02 | 0 | D03 | 14 | 9465 | DSD |
| I48310 | 03 | D02 | 01 | 0 | D03 | 05 | 9465 | DSD |

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|--------|----|-----|----|---|-----|----|------|-----|
| I48410 | 04 | D06 | 01 | 0 | D02 | 02 | 9465 | DSD |
| I48510 | 03 | D02 | 07 | 0 | D06 | 09 | 9465 | DSD |

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|--------|----|-----|----|---|-----|----|------|-----|
| I48610 | 07 | D04 | 01 | 0 | D18 | 10 | 9465 | DSD |
| I48710 | 18 | D04 | 04 | 0 | A36 | 10 | 9465 | DSD |
| I48810 | 03 | D04 | 07 | 0 | D03 | 04 | 9465 | DSD |
| I48910 | 02 | D04 | 10 | 0 | D04 | 09 | 9465 | DSD |
| I49010 | 05 | D13 | 01 | 0 | D18 | 04 | 9465 | DSD |
| I49110 | 03 | D03 | 07 | 0 | D04 | 12 | 9465 | DSD |
| I49111 | 09 | D04 | 12 | 0 | B01 | 12 | 9465 | DSD |
| I49120 | 03 | D03 | 08 | 0 | D02 | 06 | 9465 | DSD |
| I49121 | 04 | D02 | 06 | 0 | D06 | 06 | 9465 | DSD |
| I49210 | 03 | D06 | 07 | 0 | D03 | 12 | 9465 | DSD |
| I49310 | 02 | D06 | 04 | 0 | D06 | 03 | 9465 | DSD |
| K10010 | 08 | A17 | 01 | 0 | B11 | 12 | 9465 | DSD |
| K10011 | 05 | B11 | 12 | 0 | C14 | 05 | 9465 | DSD |
| K10020 | 06 | A17 | 02 | 0 | B11 | 05 | 9465 | DSD |
| K10021 | 06 | B11 | 05 | 0 | B20 | 06 | 9465 | DSD |
| K10110 | 06 | A17 | 07 | 0 | B20 | 12 | 9465 | DSD |
| K10111 | 06 | B20 | 12 | 0 | B11 | 06 | 9465 | DSD |
| K10120 | 04 | A17 | 08 | 0 | A13 | 12 | 9465 | DSD |
| K10210 | 08 | A18 | 01 | 0 | B11 | 11 | 9465 | DSD |
| K10211 | 06 | B11 | 11 | 0 | C14 | 11 | 9465 | DSD |
| K10220 | 06 | A18 | 02 | 0 | B11 | 03 | 9465 | DSD |
| K10221 | 05 | B11 | 03 | 0 | B20 | 04 | 9465 | DSD |
| K10222 | 03 | B20 | 04 | 0 | B22 | 03 | 9465 | DSD |
| K10310 | 06 | A18 | 07 | 0 | B11 | 04 | 9465 | DSD |
| K10311 | 05 | B11 | 04 | 0 | B20 | 05 | 9465 | DSD |
| K10312 | 03 | B20 | 05 | 0 | B22 | 06 | 9465 | DSD |
| K10320 | 04 | A18 | 08 | 0 | A13 | 11 | 9465 | DSD |
| K10410 | 08 | A19 | 01 | 0 | B11 | 10 | 9465 | DSD |
| K10411 | 05 | B11 | 10 | 0 | C16 | 05 | 9465 | DSD |
| K10420 | 04 | A19 | 02 | 0 | A14 | 10 | 9465 | DSD |
| K10421 | 06 | A19 | 02 | 0 | B21 | 06 | 9465 | DSD |
| K10510 | 04 | A19 | 07 | 0 | A14 | 11 | 9465 | DSD |

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|--------|----|-----|----|---|-----|----|------|-----|
| K10511 | 06 | A19 | 07 | 0 | B21 | 12 | 9465 | DSD |
| K10520 | 04 | A19 | 08 | 0 | A13 | 10 | 9465 | DSD |
| K10610 | 08 | A20 | 01 | 0 | B11 | 09 | 9465 | DSD |
| K10611 | 06 | B11 | 09 | 0 | C16 | 11 | 9465 | DSD |
| K10620 | 04 | A20 | 02 | 0 | A14 | 08 | 9465 | DSD |
| K10621 | 05 | A20 | 02 | 0 | B21 | 04 | 9465 | DSD |
| K10622 | 03 | B21 | 04 | 0 | B22 | 09 | 9465 | DSD |
| K10710 | 04 | A20 | 07 | 0 | A14 | 09 | 9465 | DSD |
| K10711 | 05 | A20 | 07 | 0 | B21 | 05 | 9465 | DSD |
| K10712 | 03 | B21 | 05 | 0 | B22 | 12 | 9465 | DSD |
| K10720 | 05 | A20 | 08 | 0 | A13 | 09 | 9465 | DSD |
| K10810 | 08 | A21 | 01 | 0 | B11 | 08 | 9465 | DSD |
| K10811 | 10 | A21 | 01 | 0 | C18 | 06 | 9465 | DSD |
| K10820 | 05 | A21 | 02 | 0 | A15 | 11 | 9465 | DSD |
| K10821 | 06 | A21 | 02 | 0 | B23 | 06 | 9465 | DSD |
| K10910 | 04 | A21 | 07 | 0 | A15 | 12 | 9465 | DSD |
| K10911 | 06 | A21 | 07 | 0 | B23 | 12 | 9465 | DSD |
| K10920 | 05 | A21 | 08 | 0 | A13 | 08 | 9465 | DSD |
| K11010 | 10 | A22 | 01 | 0 | C18 | 12 | 9465 | DSD |
| K11011 | 05 | C18 | 12 | 0 | D17 | 06 | 9465 | DSD |
| K11020 | 05 | A22 | 02 | 0 | A15 | 09 | 9465 | DSD |
| K11021 | 06 | A22 | 02 | 0 | B23 | 04 | 9465 | DSD |
| K11022 | 03 | B23 | 04 | 0 | B24 | 06 | 9465 | DSD |
| K11110 | 05 | A22 | 07 | 0 | A15 | 10 | 9465 | DSD |
| K11111 | 05 | A22 | 07 | 0 | B23 | 05 | 9465 | DSD |
| K11112 | 03 | B23 | 05 | 0 | B24 | 12 | 9465 | DSD |
| K11120 | 05 | A22 | 08 | 0 | A13 | 07 | 9465 | DSD |
| K11210 | 10 | A23 | 01 | 0 | C20 | 06 | 9465 | DSD |
| K11211 | 06 | C20 | 06 | 0 | D17 | 05 | 9465 | DSD |
| K11220 | 05 | A23 | 02 | 0 | A16 | 11 | 9465 | DSD |
| K11221 | 03 | A16 | 11 | 0 | A15 | 07 | 9465 | DSD |
| K11222 | 06 | A23 | 02 | 0 | B25 | 06 | 9465 | DSD |
| K11310 | 05 | A23 | 07 | 0 | A16 | 12 | 9465 | DSD |
| K11311 | 03 | A16 | 12 | 0 | A15 | 08 | 9465 | DSD |
| K11312 | 06 | A23 | 07 | 0 | B25 | 12 | 9465 | DSD |
| K11320 | 06 | A23 | 08 | 0 | A13 | 06 | 9465 | DSD |
| K11410 | 10 | A24 | 01 | 0 | C20 | 11 | 9465 | DSD |
| K11411 | 04 | C20 | 11 | 0 | D17 | 04 | 9465 | DSD |
| K11420 | 05 | A24 | 02 | 0 | A16 | 09 | 9465 | DSD |
| K11421 | 03 | A16 | 09 | 0 | A15 | 05 | 9465 | DSD |
| K11422 | 05 | A24 | 02 | 0 | B25 | 04 | 9465 | DSD |
| K11423 | 02 | B25 | 04 | 0 | B26 | 03 | 9465 | DSD |
| K11510 | 05 | A24 | 07 | 0 | A16 | 10 | 9465 | DSD |
| K11511 | 03 | A16 | 10 | 0 | A15 | 06 | 9465 | DSD |
| K11512 | 05 | A24 | 07 | 0 | B25 | 05 | 9465 | DSD |
| K11513 | 02 | B25 | 05 | 0 | B26 | 06 | 9465 | DSD |
| K11520 | 06 | A24 | 08 | 0 | A13 | 05 | 9465 | DSD |
| K12010 | 04 | B20 | 01 | 0 | A17 | 12 | 9465 | DSD |
| K12011 | 04 | A17 | 12 | 0 | A11 | 11 | 9465 | DSD |
| K12110 | 06 | B20 | 07 | 0 | A17 | 06 | 9465 | DSD |
| K12111 | 05 | A17 | 06 | 0 | A11 | 12 | 9465 | DSD |
| K12210 | 04 | B22 | 01 | 0 | A18 | 12 | 9465 | DSD |
| K12211 | 05 | A18 | 12 | 0 | A11 | 09 | 9465 | DSD |
| K12310 | 06 | B22 | 04 | 0 | A18 | 06 | 9465 | DSD |
| K12311 | 05 | A18 | 06 | 0 | A11 | 10 | 9465 | DSD |
| K12410 | 04 | B21 | 01 | 0 | A19 | 12 | 9465 | DSD |

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| K12411 | 05 | A19 | 12 | 0 | A11 | 07 | 9465 DSD |
| K12510 | 06 | B21 | 07 | 0 | A19 | 06 | 9465 DSD |
| K12511 | 05 | A19 | 06 | 0 | A11 | 08 | 9465 DSD |
| K12610 | 05 | B22 | 07 | 0 | A20 | 12 | 9465 DSD |
| K12611 | 06 | A20 | 12 | 0 | A11 | 05 | 9465 DSD |
| K12710 | 06 | B22 | 10 | 0 | A20 | 06 | 9465 DSD |
| K12711 | 06 | A20 | 06 | 0 | A11 | 06 | 9465 DSD |
| K12810 | 04 | B23 | 01 | 0 | A21 | 12 | 9465 DSD |
| K12811 | 05 | A21 | 12 | 0 | A12 | 11 | 9465 DSD |
| K12910 | 06 | B23 | 07 | 0 | A21 | 06 | 9465 DSD |
| K12911 | 06 | A21 | 06 | 0 | A12 | 12 | 9465 DSD |
| K13010 | 04 | B24 | 01 | 0 | A22 | 12 | 9465 DSD |
| K13011 | 06 | A22 | 12 | 0 | A12 | 09 | 9465 DSD |
| K13110 | 05 | B24 | 07 | 0 | A22 | 06 | 9465 DSD |
| K13111 | 06 | A22 | 06 | 0 | A12 | 10 | 9465 DSD |
| K13210 | 04 | B25 | 01 | 0 | A23 | 12 | 9465 DSD |
| K13211 | 06 | A23 | 12 | 0 | A12 | 07 | 9465 DSD |
| K13310 | 05 | B25 | 07 | 0 | A23 | 06 | 9465 DSD |
| K13311 | 06 | A23 | 06 | 0 | A12 | 08 | 9465 DSD |
| K13410 | 04 | B26 | 01 | 0 | A24 | 12 | 9465 DSD |
| K13411 | 07 | A24 | 12 | 0 | A12 | 05 | 9465 DSD |
| K13510 | 05 | B26 | 04 | 0 | A24 | 06 | 9465 DSD |
| K13511 | 07 | A24 | 06 | 0 | A12 | 06 | 9465 DSD |
| K14010 | 04 | B16 | 01 | 0 | B12 | 12 | 9465 DSD |
| K14011 | 04 | B12 | 12 | 0 | C14 | 04 | 9465 DSD |
| K14110 | 04 | B16 | 04 | 0 | B13 | 12 | 9465 DSD |
| K14210 | 04 | B16 | 07 | 0 | B12 | 11 | 9465 DSD |
| K14211 | 05 | B12 | 11 | 0 | C14 | 10 | 9465 DSD |
| K14310 | 03 | B16 | 10 | 0 | B13 | 11 | 9465 DSD |
| K14410 | 04 | B17 | 01 | 0 | B12 | 10 | 9465 DSD |
| K14411 | 05 | B12 | 10 | 0 | C16 | 04 | 9465 DSD |
| K14510 | 04 | B17 | 04 | 0 | B13 | 10 | 9465 DSD |
| K14610 | 04 | B17 | 07 | 0 | B12 | 09 | 9465 DSD |
| K14611 | 06 | B12 | 09 | 0 | C16 | 10 | 9465 DSD |
| K14710 | 04 | B17 | 10 | 0 | B13 | 09 | 9465 DSD |
| K14810 | 06 | B18 | 01 | 0 | C18 | 05 | 9465 DSD |
| K14811 | 05 | B18 | 01 | 0 | B12 | 08 | 9465 DSD |
| K14910 | 04 | B18 | 04 | 0 | B13 | 08 | 9465 DSD |
| K15010 | 06 | B18 | 07 | 0 | C18 | 11 | 9465 DSD |
| K15011 | 04 | B18 | 07 | 0 | B12 | 07 | 9465 DSD |
| K15110 | 04 | B18 | 10 | 0 | B13 | 07 | 9465 DSD |
| K15210 | 06 | B19 | 01 | 0 | C20 | 05 | 9465 DSD |
| K15211 | 05 | B19 | 01 | 0 | B12 | 06 | 9465 DSD |
| K15310 | 04 | B19 | 04 | 0 | B13 | 06 | 9465 DSD |
| K15410 | 06 | B19 | 07 | 0 | C20 | 10 | 9465 DSD |
| K15411 | 05 | B19 | 07 | 0 | B12 | 05 | 9465 DSD |
| K15510 | 05 | B19 | 10 | 0 | B13 | 05 | 9465 DSD |
| K16010 | 11 | D15 | 01 | 0 | C35 | 06 | 9465 DSD |
| K16011 | 03 | C35 | 06 | 0 | C37 | 06 | 9465 DSD |
| K16012 | 08 | C37 | 06 | 0 | A34 | 11 | 9465 DSD |
| K16013 | 03 | A34 | 11 | 0 | A34 | 05 | 9465 DSD |
| K16110 | 03 | D15 | 04 | 0 | D15 | 12 | 9465 DSD |
| K16111 | 04 | D15 | 12 | 0 | D20 | 07 | 9465 DSD |
| K16210 | 02 | D15 | 07 | 0 | D15 | 06 | 9465 DSD |
| K16211 | 04 | D15 | 06 | 0 | D20 | 09 | 9465 DSD |
| K16310 | 03 | D15 | 10 | 0 | D15 | 03 | 9465 DSD |





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|--------|----|-----|----|---|-----|----|----------|
| K16311 | 04 | D15 | 03 | 0 | D20 | 08 | 9465 DSD |
| K20010 | 06 | A31 | 01 | 0 | B28 | 03 | 9465 DSD |
| K20020 | 07 | A31 | 02 | 0 | B28 | 12 | 9465 DSD |
| K20021 | 04 | B28 | 12 | 0 | C31 | 04 | 9465 DSD |
| K20022 | 08 | C31 | 04 | 0 | D23 | 08 | 9465 DSD |
| K20023 | 14 | A31 | 02 | 0 | B05 | 05 | 9465 DSD |
| K20024 | 06 | A31 | 02 | 0 | A39 | 05 | 9465 DSD |
| K20025 | 02 | A39 | 05 | 0 | A39 | 06 | 9465 DSD |
| K20110 | 03 | A31 | 07 | 0 | A28 | 11 | 9465 DSD |
| K20111 | 09 | A28 | 11 | 0 | C29 | 11 | 9465 DSD |
| K20112 | 04 | C29 | 11 | 0 | C33 | 03 | 9465 DSD |
| K20113 | 08 | C33 | 03 | 0 | D20 | 03 | 9465 DSD |
| K20120 | 10 | A31 | 08 | 0 | C40 | 03 | 9465 DSD |
| K20210 | 10 | A29 | 01 | 0 | C20 | 04 | 9465 DSD |
| K20211 | 07 | C20 | 04 | 0 | D27 | 09 | 9465 DSD |
| K20310 | 08 | A29 | 07 | 0 | C33 | 02 | 9465 DSD |
| K20311 | 08 | C33 | 02 | 0 | D20 | 04 | 9465 DSD |
| K20410 | 04 | C32 | 01 | 0 | C36 | 05 | 9465 DSD |
| K20411 | 07 | C32 | 01 | 0 | A32 | 12 | 9465 DSD |
| K20412 | 04 | A32 | 12 | 0 | A34 | 02 | 9465 DSD |
| K20413 | 07 | A34 | 02 | 0 | B29 | 05 | 9465 DSD |
| K20420 | 04 | C32 | 02 | 0 | C32 | 14 | 9465 DSD |
| K20510 | 09 | C32 | 07 | 0 | A28 | 06 | 9465 DSD |
| K20520 | 07 | C32 | 08 | 0 | D24 | 03 | 9465 DSD |
| K20610 | 06 | B31 | 01 | 0 | C31 | 03 | 9465 DSD |
| K20611 | 04 | B31 | 01 | 0 | A31 | 10 | 9465 DSD |
| K20620 | 03 | B31 | 02 | 0 | B29 | 08 | 9465 DSD |
| K20621 | 12 | B29 | 08 | 0 | D11 | 11 | 9465 DSD |
| K20622 | 08 | B31 | 02 | 0 | C37 | 10 | 9465 DSD |
| K20630 | 05 | B31 | 03 | 0 | A28 | 10 | 9465 DSD |
| K20631 | 07 | B31 | 03 | 0 | C29 | 10 | 9465 DSD |
| K20632 | 04 | C29 | 10 | 0 | C33 | 06 | 9465 DSD |
| K20710 | 05 | B31 | 07 | 0 | A31 | 09 | 9465 DSD |
| K20711 | 03 | B31 | 07 | 0 | B29 | 07 | 9465 DSD |
| K20720 | 03 | B31 | 08 | 0 | B28 | 06 | 9465 DSD |
| K20721 | 06 | B28 | 06 | 0 | A31 | 05 | 9465 DSD |
| K20722 | 07 | B31 | 08 | 0 | C36 | 11 | 9465 DSD |
| K20731 | 07 | B31 | 09 | 0 | C40 | 05 | 9465 DSD |
| K20810 | 09 | C37 | 01 | 0 | A37 | 01 | 9465 DSD |
| K20811 | 04 | A37 | 01 | 0 | A34 | 09 | 9465 DSD |
| K20812 | 02 | A34 | 09 | 0 | A32 | 09 | 9465 DSD |
| K20813 | 08 | C37 | 01 | 0 | D28 | 11 | 9465 DSD |
| K20820 | 04 | C37 | 02 | 0 | C37 | 14 | 9465 DSD |
| K20910 | 03 | C37 | 07 | 0 | C36 | 12 | 9465 DSD |
| K20920 | 03 | C37 | 08 | 0 | C40 | 06 | 9465 DSD |
| K21010 | 08 | B30 | 01 | 0 | C38 | 10 | 9465 DSD |
| K21020 | 07 | B30 | 02 | 0 | C34 | 08 | 9465 DSD |
| K21110 | 06 | B30 | 07 | 0 | A31 | 04 | 9465 DSD |
| K21111 | 07 | B30 | 07 | 0 | C36 | 10 | 9465 DSD |
| K21120 | 03 | B30 | 08 | 0 | B30 | 14 | 9465 DSD |
| K21210 | 04 | C38 | 01 | 0 | C41 | 12 | 9465 DSD |
| K21211 | 09 | C38 | 01 | 0 | A26 | 10 | 9465 DSD |
| K21220 | 03 | C38 | 02 | 0 | C37 | 12 | 9465 DSD |
| K21221 | 03 | C37 | 12 | 0 | C35 | 05 | 9465 DSD |
| K21222 | 09 | C35 | 05 | 0 | A34 | 04 | 9465 DSD |
| K21223 | 03 | A34 | 04 | 0 | A34 | 10 | 9465 DSD |
| K21224 | 04 | C38 | 02 | 0 | C42 | 12 | 9465 DSD |
| K21310 | 03 | C38 | 07 | 0 | C40 | 04 | 9465 DSD |

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|--------|----|-----|----|---|-----|----|----------|
| K21311 | 07 | C38 | 07 | 0 | B28 | 11 | 9465 DSD |
| K21320 | 03 | C38 | 08 | 0 | C36 | 09 | 9465 DSD |
| K21410 | 06 | C28 | 01 | 0 | C18 | 10 | 9465 DSD |
| K21411 | 06 | C18 | 10 | 0 | D10 | 07 | 9465 DSD |
| K21420 | 03 | C28 | 02 | 0 | C29 | 09 | 9465 DSD |
| K21421 | 03 | C29 | 09 | 0 | C32 | 09 | 9465 DSD |
| K21422 | 09 | C32 | 09 | 0 | A37 | 12 | 9465 DSD |
| K21423 | 05 | A37 | 12 | 0 | A33 | 06 | 9465 DSD |
| K21430 | 04 | C28 | 03 | 0 | C28 | 14 | 9465 DSD |
| K21510 | 03 | C28 | 07 | 0 | C29 | 02 | 9465 DSD |
| K21511 | 06 | C29 | 02 | 0 | C37 | 11 | 9465 DSD |
| K21520 | 03 | C28 | 08 | 0 | C31 | 08 | 9465 DSD |
| K21521 | 02 | C31 | 08 | 0 | C32 | 10 | 9465 DSD |
| K21522 | 04 | C32 | 10 | 0 | C38 | 03 | 9465 DSD |
| K21523 | 08 | C36 | 03 | 0 | A39 | 11 | 9465 DSD |
| K21530 | 08 | C28 | 09 | 0 | A28 | 11 | 9465 DSD |
| K21610 | 11 | A27 | 01 | 0 | C40 | 03 | 9465 DSD |
| K21620 | 11 | A27 | 02 | 0 | B08 | 02 | 9465 DSD |
| K21621 | 14 | A27 | 02 | 0 | D18 | 05 | 9465 DSD |
| K21622 | 05 | D18 | 05 | 0 | D13 | 06 | 9465 DSD |
| K21710 | 10 | A27 | 07 | 0 | C23 | 11 | 9465 DSD |
| K21711 | 06 | C23 | 11 | 0 | C14 | 09 | 9465 DSD |
| K21712 | 06 | C14 | 09 | 0 | D16 | 12 | 9465 DSD |
| K21720 | 03 | A27 | 08 | 0 | A27 | 14 | 9465 DSD |
| K30010 | 04 | B32 | 01 | 0 | B37 | 03 | 9465 DSD |
| K30011 | 05 | B37 | 03 | 0 | A35 | 02 | 9465 DSD |
| K30012 | 10 | B32 | 01 | 0 | D36 | 06 | 9465 DSD |
| K30110 | 03 | B32 | 07 | 0 | B33 | 12 | 9465 DSD |
| K30111 | 07 | B33 | 12 | 0 | A37 | 07 | 9465 DSD |
| K30112 | 04 | A37 | 07 | 0 | A39 | 04 | 9465 DSD |
| K30210 | 04 | B33 | 01 | 0 | B32 | 12 | 9465 DSD |
| K30211 | 07 | B32 | 12 | 0 | A37 | 09 | 9465 DSD |
| K30310 | 02 | B33 | 07 | 0 | B32 | 06 | 9465 DSD |
| K30311 | 06 | B32 | 06 | 0 | A37 | 08 | 9465 DSD |
| K30410 | 08 | B38 | 01 | 0 | C40 | 12 | 9465 DSD |
| K30420 | 07 | B38 | 02 | 0 | C36 | 08 | 9465 DSD |
| K30510 | 05 | B38 | 07 | 0 | B30 | 11 | 9465 DSD |
| K30511 | 06 | B38 | 07 | 0 | C41 | 11 | 9465 DSD |
| K30520 | 05 | B38 | 08 | 0 | B30 | 10 | 9465 DSD |
| K30521 | 06 | B38 | 08 | 0 | C42 | 11 | 9465 DSD |
| K30522 | 08 | C42 | 11 | 0 | D27 | 03 | 9465 DSD |
| K30610 | 04 | C41 | 01 | 0 | B37 | 12 | 9465 DSD |
| K30611 | 06 | B37 | 12 | 0 | A37 | 06 | 9465 DSD |
| K30710 | 06 | C41 | 07 | 0 | B36 | 11 | 9465 DSD |
| K30711 | 04 | B36 | 11 | 0 | B33 | 06 | 9465 DSD |
| K30712 | 03 | B33 | 06 | 0 | B32 | 11 | 9465 DSD |
| K30810 | 05 | C42 | 01 | 0 | B37 | 09 | 9465 DSD |
| K30811 | 06 | B37 | 09 | 0 | A37 | 05 | 9465 DSD |
| K30910 | 06 | C42 | 07 | 0 | B35 | 11 | 9465 DSD |
| K30911 | 03 | B35 | 11 | 0 | B33 | 05 | 9465 DSD |
| K30912 | 02 | B33 | 05 | 0 | B32 | 10 | 9465 DSD |
| K31010 | 06 | C43 | 01 | 0 | B37 | 06 | 9465 DSD |
| K31011 | 06 | B37 | 06 | 0 | A37 | 04 | 9465 DSD |
| K31110 | 07 | C43 | 07 | 0 | B34 | 11 | 9465 DSD |
| K31111 | 03 | B34 | 11 | 0 | B33 | 04 | 9465 DSD |
| K31112 | 03 | B33 | 04 | 0 | B32 | 09 | 9465 DSD |



LV45480600 9465 DSD

|        |    |     |    |   |     |    |      |     |
|--------|----|-----|----|---|-----|----|------|-----|
| K31210 | 04 | B44 | 01 | 0 | B42 | 14 | 9465 | DSD |
| K31220 | 07 | B44 | 02 | 0 | C39 | 08 | 9465 | DSD |
| K31221 | 05 | C39 | 08 | 0 | B41 | 09 | 9465 | DSD |
| K31222 | 09 | B44 | 02 | 0 | A29 | 05 | 9465 | DSD |
| K31230 | 06 | B44 | 03 | 0 | C44 | 06 | 9465 | DSD |
| K31231 | 08 | C44 | 06 | 0 | C30 | 08 | 9465 | DSD |
| K31232 | 06 | C30 | 08 | 0 | B30 | 04 | 9465 | DSD |
| K31310 | 08 | B44 | 07 | 0 | C31 | 02 | 9465 | DSD |
| K31311 | 08 | C31 | 02 | 0 | A33 | 08 | 9465 | DSD |
| K31312 | 10 | B44 | 07 | 0 | D36 | 11 | 9465 | DSD |
| K31320 | 05 | B44 | 08 | 0 | B38 | 09 | 9465 | DSD |
| K31321 | 05 | B38 | 09 | 0 | C42 | 04 | 9465 | DSD |
| K31322 | 03 | C42 | 04 | 0 | C39 | 03 | 9465 | DSD |
| K31323 | 10 | C39 | 03 | 0 | A29 | 04 | 9465 | DSD |
| K31330 | 10 | B44 | 09 | 0 | D36 | 12 | 9465 | DSD |
| K31331 | 02 | D36 | 12 | 0 | D37 | 12 | 9465 | DSD |
| K31410 | 07 | B26 | 07 | 0 | B39 | 05 | 9465 | DSD |
| K31411 | 10 | B39 | 05 | 0 | D35 | 12 | 9465 | DSD |
| K31510 | 07 | B26 | 10 | 0 | C36 | 04 | 9465 | DSD |
| K40010 | 09 | D18 | 01 | 0 | B09 | 06 | 9465 | DSD |
| K40011 | 04 | B09 | 06 | 0 | B05 | 03 | 9465 | DSD |
| K40020 | 07 | D18 | 02 | 0 | D04 | 06 | 9465 | DSD |
| K40021 | 17 | D04 | 06 | 0 | A28 | 04 | 9465 | DSD |
| K40030 | 10 | D18 | 03 | 0 | B09 | 03 | 9465 | DSD |
| K40031 | 09 | D18 | 03 | 0 | B28 | 08 | 9465 | DSD |
| K40110 | 10 | D18 | 07 | 0 | B08 | 04 | 9465 | DSD |
| K40120 | 04 | D18 | 08 | 0 | D24 | 12 | 9465 | DSD |
| K40130 | 03 | D18 | 09 | 0 | D18 | 14 | 9465 | DSD |
| K40210 | 04 | B07 | 01 | 0 | B05 | 09 | 9465 | DSD |
| K40310 | 03 | B07 | 04 | 0 | B07 | 12 | 9465 | DSD |
| K40311 | 11 | B07 | 12 | 0 | D20 | 12 | 9465 | DSD |
| K40410 | 02 | B07 | 07 | 0 | B07 | 06 | 9465 | DSD |
| K40411 | 03 | B07 | 06 | 0 | B06 | 11 | 9465 | DSD |
| K40412 | 11 | B06 | 11 | 0 | D20 | 10 | 9465 | DSD |
| K40510 | 03 | B07 | 10 | 0 | B07 | 03 | 9465 | DSD |
| K40511 | 11 | B07 | 10 | 0 | D20 | 11 | 9465 | DSD |
| L20010 | 09 | A38 | 07 | 0 | C38 | 05 | 9465 | DSD |
| L20110 | 07 | A38 | 01 | 0 | B42 | 10 | 9465 | DSD |
| L20111 | 05 | B42 | 10 | 0 | C38 | 04 | 9465 | DSD |
| L30010 | 07 | A40 | 01 | 0 | B40 | 11 | 9465 | DSD |
| L30011 | 03 | B40 | 11 | 0 | B41 | 03 | 9465 | DSD |
| L30012 | 11 | B41 | 03 | 0 | D32 | 11 | 9465 | DSD |
| L30013 | 03 | A40 | 01 | 0 | A43 | 05 | 9465 | DSD |
| L30014 | 08 | A43 | 05 | 0 | A30 | 09 | 9465 | DSD |
| L30016 | 06 | D32 | 11 | 0 | C44 | 11 | 9465 | DSD |
| L30110 | 05 | A40 | 07 | 0 | B40 | 05 | 9465 | DSD |
| L30111 | 02 | B40 | 05 | 0 | B41 | 06 | 9465 | DSD |
| L30112 | 11 | B41 | 06 | 0 | D32 | 10 | 9465 | DSD |
| L30113 | 03 | A40 | 07 | 0 | A43 | 09 | 9465 | DSD |
| L30114 | 07 | A43 | 09 | 0 | A30 | 10 | 9465 | DSD |
| L30116 | 08 | D32 | 10 | 0 | C44 | 12 | 9465 | DSD |
| L30210 | 07 | A42 | 01 | 0 | B41 | 12 | 9465 | DSD |
| L30211 | 07 | A42 | 01 | 0 | A30 | 11 | 9465 | DSD |
| L40010 | 16 | A42 | 07 | 0 | D18 | 11 | 9465 | DSD |
| L40210 | 03 | A01 | 01 | 0 | A02 | 11 | 9465 | DSD |
| L40220 | 03 | A01 | 05 | 0 | A02 | 12 | 9465 | DSD |



LW45480600 9465 DSD

|        |    |     |    |   |     |    |      |     |
|--------|----|-----|----|---|-----|----|------|-----|
| L40230 | 06 | A01 | 07 | 0 | B04 | 05 | 9465 | DSD |
| S00010 | 10 | D44 | 01 | 0 | C24 | 01 | 9465 | DSD |
| S00020 | 10 | D44 | 02 | 0 | C24 | 02 | 9465 | DSD |
| S00110 | 10 | D44 | 03 | 0 | C25 | 11 | 9465 | DSD |
| S00120 | 10 | D44 | 04 | 0 | C25 | 12 | 9465 | DSD |
| T00410 | 09 | B15 | 01 | 0 | C27 | 12 | 9465 | DSD |
| T00411 | 07 | C27 | 12 | 0 | D16 | 11 | 9465 | DSD |
| T00510 | 09 | B27 | 07 | 0 | D24 | 06 | 9465 | DSD |
| T00511 | 05 | B27 | 07 | 0 | C24 | 05 | 9465 | DSD |
| T00610 | 05 | C25 | 01 | 0 | B29 | 06 | 9465 | DSD |
| T00611 | 06 | C25 | 01 | 0 | D25 | 05 | 9465 | DSD |
| T00710 | 05 | C25 | 07 | 0 | D25 | 06 | 9465 | DSD |
| T00810 | 08 | B15 | 07 | 0 | A27 | 12 | 9465 | DSD |
| T00811 | 09 | B15 | 07 | 0 | D16 | 10 | 9465 | DSD |
| T00812 | 09 | D16 | 10 | 0 | C29 | 05 | 9465 | DSD |
| T00813 | 08 | C29 | 05 | 0 | D20 | 02 | 9465 | DSD |
| T10010 | 05 | C15 | 01 | 0 | B16 | 06 | 9465 | DSD |
| T10011 | 09 | C15 | 01 | 0 | D26 | 12 | 9465 | DSD |
| T10110 | 05 | C15 | 07 | 0 | B16 | 12 | 9465 | DSD |
| T10111 | 08 | C15 | 07 | 0 | D26 | 11 | 9465 | DSD |
| T10210 | 05 | C17 | 01 | 0 | B17 | 06 | 9465 | DSD |
| T10211 | 08 | C17 | 01 | 0 | D26 | 10 | 9465 | DSD |
| T10310 | 05 | C17 | 07 | 0 | B17 | 12 | 9465 | DSD |
| T10311 | 07 | C17 | 07 | 0 | D26 | 09 | 9465 | DSD |
| T10410 | 05 | C19 | 01 | 0 | B18 | 06 | 9465 | DSD |
| T10411 | 07 | C19 | 01 | 0 | D26 | 08 | 9465 | DSD |
| T10510 | 05 | C19 | 07 | 0 | B18 | 12 | 9465 | DSD |
| T10511 | 07 | C19 | 07 | 0 | D26 | 07 | 9465 | DSD |
| T10610 | 05 | C21 | 01 | 0 | B19 | 06 | 9465 | DSD |
| T10611 | 07 | C21 | 01 | 0 | D26 | 06 | 9465 | DSD |
| T10710 | 05 | C21 | 07 | 0 | B19 | 12 | 9465 | DSD |
| T10711 | 06 | C21 | 07 | 0 | D26 | 05 | 9465 | DSD |
| T20210 | 03 | C26 | 07 | 0 | C29 | 06 | 9465 | DSD |
| T20211 | 03 | C29 | 06 | 0 | C32 | 06 | 9465 | DSD |
| T20212 | 09 | C26 | 07 | 0 | D13 | 08 | 9465 | DSD |
| T20213 | 05 | C32 | 06 | 0 | C37 | 09 | 9465 | DSD |
| T20410 | 08 | C26 | 01 | 0 | D16 | 09 | 9465 | DSD |
| T20411 | 03 | C26 | 01 | 0 | C29 | 04 | 9465 | DSD |
| T20412 | 04 | C29 | 04 | 0 | C32 | 12 | 9465 | DSD |
| T40010 | 04 | D19 | 01 | 0 | D18 | 12 | 9465 | DSD |
| T40011 | 03 | D18 | 12 | 0 | D16 | 08 | 9465 | DSD |
| T40110 | 14 | D19 | 07 | 0 | A01 | 12 | 9465 | DSD |
| Y20310 | 07 | A30 | 01 | 0 | B28 | 09 | 9465 | DSD |
| Y20610 | 09 | A25 | 01 | 0 | C27 | 06 | 9465 | DSD |
| Y22110 | 05 | A36 | 01 | 0 | A30 | 12 | 9465 | DSD |
| Y23010 | 13 | D05 | 01 | 0 | C27 | 05 | 9465 | DSD |
| Y30510 | 03 | B34 | 01 | 0 | B33 | 09 | 9465 | DSD |
| Y30511 | 04 | B33 | 09 | 0 | B32 | 05 | 9465 | DSD |
| Y30610 | 04 | B35 | 01 | 0 | B33 | 10 | 9465 | DSD |
| Y30611 | 04 | B33 | 10 | 0 | B32 | 04 | 9465 | DSD |
| Y30710 | 04 | B36 | 01 | 0 | B33 | 11 | 9465 | DSD |
| Y31210 | 07 | B42 | 01 | 0 | C38 | 11 | 9465 | DSD |
| Y31310 | 06 | B43 | 01 | 0 | B33 | 08 | 9465 | DSD |
| Y31311 | 03 | B33 | 08 | 0 | B32 | 02 | 9465 | DSD |
| Y31510 | 08 | D37 | 01 | 0 | B42 | 11 | 9465 | DSD |
| Y33010 | 02 | D34 | 01 | 0 | D35 | 03 | 9465 | DSD |





LW45480600 9465 DSD

|         |    |      |    |   |      |    |      |     |
|---------|----|------|----|---|------|----|------|-----|
| Y33110  | 03 | D33  | 01 | 0 | D35  | 06 | 9465 | DSD |
| Y33210  | 03 | D32  | 01 | 0 | D33  | 11 | 9465 | DSD |
| Y33211  | 02 | D33  | 11 | 0 | D34  | 12 | 9465 | DSD |
| Y40710  | 07 | D09  | 01 | 0 | D21  | 12 | 9465 | DSD |
| Y41010  | 14 | A39  | 10 | 0 | D18  | 04 | 9465 | DSD |
| 100010  | 02 | A26  | 02 | 0 | A26  | 04 | 9465 | DSD |
| *100020 | 02 | A26  | 05 | 0 | A26  | 07 | 9465 | DSD |
| 100030  | 04 | A38  | 03 | 0 | A44  | 01 | 9465 | DSD |
| 100031  | 02 | A44  | 01 | 0 | A44  | 02 | 9465 | DSD |
| 100040  | 04 | A38  | 09 | 0 | A44  | 03 | 9465 | DSD |
| 100041  | 02 | A44  | 03 | 0 | A44  | 04 | 9465 | DSD |
| 100050  | 02 | A30  | 04 | 0 | A30  | 05 | 9465 | DSD |
| 100051  | 02 | A30  | 05 | 0 | A30  | 07 | 9465 | DSD |
| 100052  | 05 | A30  | 07 | 0 | B34  | 04 | 9465 | DSD |
| 100053  | 02 | B34  | 04 | 0 | B35  | 04 | 9465 | DSD |
| 100060  | 02 | B34  | 05 | 0 | B34  | 07 | 9465 | DSD |
| 100070  | 02 | B35  | 05 | 0 | B35  | 07 | 9465 | DSD |
| 100080  | 02 | B36  | 04 | 0 | B36  | 07 | 9465 | DSD |
| 100090  | 03 | A40  | 03 | 0 | A44  | 05 | 9465 | DSD |
| 100091  | 02 | A44  | 05 | 0 | A44  | 06 | 9465 | DSD |
| 100100  | 03 | A40  | 09 | 0 | A44  | 07 | 9465 | DSD |
| 100101  | 02 | A44  | 07 | 0 | A44  | 08 | 9465 | DSD |
| 100110  | 03 | A42  | 03 | 0 | A44  | 09 | 9465 | DSD |
| 100111  | 02 | A44  | 09 | 0 | A44  | 10 | 9465 | DSD |
| 100120  | 02 | B42  | 04 | 0 | B42  | 05 | 9465 | DSD |
| 100121  | 02 | B42  | 05 | 0 | B42  | 07 | 9465 | DSD |
| 100130  | 02 | B43  | 04 | 0 | B43  | 07 | 9465 | DSD |
| 100170  | 14 | B08  | 05 | R | S100 | 02 | 9465 | DSD |
| 100171  | 01 | S100 | 02 | R | S100 | 03 | 9465 | DSD |
| 100180  | 18 | C01  | 10 | R | S101 | 02 | 9465 | DSD |
| 100190  | 19 | C01  | 04 | R | S101 | 03 | 9465 | DSD |
| 100200  | 09 | A30  | 14 | R | S100 | C  | 9465 | DSD |
| 100201  | 03 | S100 | C  | R | S101 | C  | 9465 | DSD |
| 100210  | 02 | C14  | 01 | 0 | C15  | 05 | 9465 | DSD |
| 100220  | 02 | C14  | 02 | 0 | C15  | 06 | 9465 | DSD |
| 100230  | 02 | C14  | 07 | 0 | C15  | 11 | 9465 | DSD |
| 100240  | 02 | C14  | 08 | 0 | C15  | 12 | 9465 | DSD |
| 100250  | 02 | C16  | 01 | 0 | C17  | 05 | 9465 | DSD |
| 100260  | 02 | C16  | 02 | 0 | C17  | 06 | 9465 | DSD |
| 100270  | 02 | C16  | 07 | 0 | C17  | 11 | 9465 | DSD |
| 100280  | 02 | C16  | 08 | 0 | C17  | 12 | 9465 | DSD |
| 100290  | 02 | C18  | 01 | 0 | C19  | 05 | 9465 | DSD |
| 100300  | 02 | C18  | 02 | 0 | C19  | 06 | 9465 | DSD |
| 100310  | 03 | C18  | 07 | 0 | C19  | 11 | 9465 | DSD |
| 100320  | 03 | C18  | 08 | 0 | C19  | 12 | 9465 | DSD |
| 100330  | 03 | C20  | 01 | 0 | C21  | 05 | 9465 | DSD |
| 100340  | 03 | C20  | 02 | 0 | C21  | 06 | 9465 | DSD |
| 100350  | 03 | C02  | 06 | 0 | C05  | 06 | 9465 | DSD |
| 100351  | 05 | C05  | 06 | 0 | B03  | 09 | 9465 | DSD |
| 100360  | 05 | C02  | 05 | 0 | B04  | 09 | 9465 | DSD |
| 100361  | 10 | B04  | 09 | 0 | D14  | 12 | 9465 | DSD |
| 100370  | 03 | C02  | 12 | 0 | C04  | 05 | 9465 | DSD |
| 100371  | 05 | C04  | 05 | 0 | B04  | 10 | 9465 | DSD |
| 100380  | 02 | C03  | 06 | 0 | C04  | 04 | 9465 | DSD |
| 100381  | 05 | C04  | 04 | 0 | B03  | 10 | 9465 | DSD |
| 100390  | 02 | C04  | 03 | 0 | C05  | 05 | 9465 | DSD |

\*NOT ON UNITS S/N 7500 AND ABOVE  
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|        |    |       |    |   |      |    |          |
|--------|----|-------|----|---|------|----|----------|
| 100391 | 05 | C05   | 05 | 0 | B03  | 11 | 9465 DSD |
| 100400 | 05 | C04   | 06 | 0 | B04  | 11 | 9465 DSD |
| 100401 | 10 | B04   | 11 | 0 | D14  | 11 | 9465 DSD |
| 100410 | 02 | C03   | 12 | 0 | C02  | 11 | 9465 DSD |
| 100411 | 05 | C02   | 11 | 0 | B04  | 12 | 9465 DSD |
| 100420 | 03 | C03   | 11 | 0 | C03  | 05 | 9465 DSD |
| 100421 | 05 | C03   | 05 | 0 | B03  | 12 | 9465 DSD |
| 100430 | 12 | D20   | 05 | 0 | B02  | 06 | 9465 DSD |
| 100460 | 02 | D34   | 04 | 0 | D34  | 07 | 9465 DSD |
| 100470 | 02 | D33   | 05 | 0 | D33  | 07 | 9465 DSD |
| 100480 | 02 | D32   | 04 | 0 | D32  | 07 | 9465 DSD |
| 100490 | 02 | A36   | 05 | 0 | A36  | 07 | 9465 DSD |
| 100500 | 02 | D09   | 08 | 0 | D09  | 09 | 9465 DSD |
| 100510 | 10 | TP100 |    | R | A21  | 14 | 9465 DSD |
| 100600 | 02 | D37   | 04 | 0 | D37  | 07 | 9465 DSD |
| 100700 | 02 | C20   | 07 | 0 | C21  | 11 | 9465 DSD |
| 100710 | 02 | C20   | 08 | 0 | C21  | 12 | 9465 DSD |
| 100720 | 02 | A42   | 09 | 0 | A44  | 11 | 9465 DSD |
| 100730 | 03 | D02   | 09 | 0 | D04  | 03 | 9465 DSD |
| 200010 | 10 | J100  | 01 | X | C14  | 01 | 9465 DSD |
| 200020 | 10 | J100  | 04 | X | C14  | 02 | 9465 DSD |
| 200030 | 10 | J100  | 02 | X | C14  | 07 | 9465 DSD |
| 200040 | 10 | J100  | 05 | X | C14  | 08 | 9465 DSD |
| 200050 | 11 | J100  | 03 | X | C16  | 01 | 9465 DSD |
| 200060 | 11 | J100  | 07 | X | C16  | 02 | 9465 DSD |
| 200070 | 10 | J100  | 08 | X | C16  | 07 | 9465 DSD |
| 200080 | 10 | J100  | 12 | X | C16  | 08 | 9465 DSD |
| 200090 | 11 | J100  | 10 | X | C18  | 01 | 9465 DSD |
| 200100 | 11 | J100  | 13 | X | C18  | 02 | 9465 DSD |
| 200110 | 11 | J100  | 11 | X | C18  | 07 | 9465 DSD |
| 200120 | 11 | J100  | 14 | X | C18  | 08 | 9465 DSD |
| 200130 | 12 | J100  | 15 | X | C20  | 01 | 9465 DSD |
| 200140 | 12 | J100  | 18 | X | C20  | 02 | 9465 DSD |
| 200150 | 12 | J100  | 16 | X | C20  | 07 | 9465 DSD |
| 200160 | 12 | J100  | 20 | X | C20  | 08 | 9465 DSD |
| 200170 | 12 | J100  | 17 | X | C22  | 07 | 9465 DSD |
| 200180 | 12 | J100  | 21 | X | C22  | 08 | 9465 DSD |
| 200190 | 13 | J100  | 22 | X | C23  | 01 | 9465 DSD |
| 200200 | 13 | J100  | 25 | X | C23  | 02 | 9465 DSD |
| 200210 | 13 | J100  | 23 | X | C22  | 01 | 9465 DSD |
| 200220 | 13 | J100  | 26 | X | C22  | 02 | 9465 DSD |
| 200230 | 12 | J100  | 24 | X | C23  | 07 | 9465 DSD |
| 200240 | 12 | J100  | 27 | X | C23  | 08 | 9465 DSD |
| 200250 | 12 | J100  | 28 | X | C24  | 08 | 9465 DSD |
| 200260 | 12 | J100  | 31 | X | C24  | 07 | 9465 DSD |
| 200270 | 13 | J100  | 29 | X | B15  | 11 | 9465 DSD |
| 200280 | 13 | J100  | 32 | X | B15  | 12 | 9465 DSD |
| 200290 | 09 | J100  | 30 | X | D19  | 05 | 9465 DSD |
| 200300 | 09 | J100  | 33 | X | D19  | 06 | 9465 DSD |
| 200310 | 13 | J100  | 34 | X | C26  | 05 | 9465 DSD |
| 200320 | 13 | J100  | 37 | X | C26  | 06 | 9465 DSD |
| 200330 |    | J100  | 35 | X |      |    | 9465 DSD |
| 200340 |    | J100  | 38 | X |      |    | 9465 DSD |
| 200350 | 12 | J100  | 36 | X | J101 | 36 | 9465 DSD |
| 200360 | 12 | J100  | 39 | X | J101 | 39 | 9465 DSD |
| 200370 |    | J100  | 40 | X |      |    | 9465 DSD |
| 200380 |    | J100  | 43 | X |      |    | 9465 DSD |

33311

|    |   |   |
|----|---|---|
| 24 | A | 0 |
| 24 | A | 4 |
| 24 | B | 0 |
| 24 | B | 4 |
| 24 | C | 0 |
| 24 | C | 4 |
| 24 | D | 0 |
| 24 | D | 4 |
| 24 | E | 0 |
| 24 | E | 4 |
| 24 | F | 0 |
| 24 | F | 4 |
| 24 | G | 0 |
| 24 | G | 4 |
| 24 | H | 0 |
| 24 | H | 4 |
| 24 | J | 0 |
| 24 | J | 4 |
| 24 | K | 0 |
| 24 | K | 4 |
| 24 | L | 0 |
| 24 | L | 4 |
| 24 | M | 0 |
| 24 | M | 4 |
| 24 | N | 0 |
| 24 | N | 4 |
| 24 | P | 0 |
| 24 | P | 4 |
| 24 | R | 0 |
| 24 | R | 4 |
| 24 | S | 0 |
| 24 | S | 4 |
| 24 |   | 4 |
| 24 |   | 4 |

|        |    |      |    |   |     |    |      |     |    |   |   |
|--------|----|------|----|---|-----|----|------|-----|----|---|---|
| 200390 |    | J100 | 41 | X |     |    | 9465 | DSD |    |   |   |
| 200400 |    | J100 | 44 | X |     |    | 9465 | DSD |    |   |   |
| 200410 |    | J100 | 42 | X |     |    | 9465 | DSD |    |   |   |
| 200420 |    | J100 | 45 | X |     |    | 9465 | DSD |    |   |   |
| 200430 |    | J100 | 46 | X |     |    | 9465 | DSD |    |   |   |
| 200440 |    | J100 | 49 | X |     |    | 9465 | DSD |    |   |   |
| 200450 | 17 | J100 | 47 | X | B27 | 11 | 9465 | DSD | 24 | T | 0 |
| 200460 | 17 | J100 | 50 | X | B27 | 12 | 9465 | DSD | 24 | T | 4 |
| 200490 | 09 | J100 | 52 | X | D19 | 11 | 9465 | DSD | 24 | V | 0 |
| 200500 | 09 | J100 | 55 | X | D19 | 12 | 9465 | DSD | 24 | V | 4 |
| 200510 |    | J100 | 53 | X |     |    | 9465 | DSD |    |   |   |
| 200520 |    | J100 | 56 | X |     |    | 9465 | DSD |    |   |   |
| 200530 |    | J100 | 54 | X |     |    | 9465 | DSD |    |   |   |
| 200540 |    | J100 | 57 | X |     |    | 9465 | DSD |    |   |   |
| 200550 | 13 | J100 | 58 | X | C26 | 11 | 9465 | DSD | 24 | W | 0 |
| 200560 | 13 | J100 | 62 | X | C26 | 12 | 9465 | DSD | 24 | W | 4 |
| 200570 | 13 | J100 | 59 | X | C25 | 05 | 9465 | DSD | 24 | X | 0 |
| 200580 | 13 | J100 | 63 | X | C25 | 06 | 9465 | DSD | 24 | X | 4 |
| 200590 | 14 | J100 | 60 | X | B15 | 05 | 9465 | DSD | 24 | Y | 0 |
| 200600 | 14 | J100 | 64 | X | B15 | 06 | 9465 | DSD | 24 | Y | 4 |
| 200610 |    | J100 | 65 | X |     |    | 9465 | DSD |    |   |   |
| 200620 |    | J100 | 70 | X |     |    | 9465 | DSD |    |   |   |
| 200630 |    | J100 | 66 | X |     |    | 9465 | DSD |    |   |   |
| 200640 |    | J100 | 71 | X |     |    | 9465 | DSD |    |   |   |
| 200650 |    | J100 | 67 | X |     |    | 9465 | DSD |    |   |   |
| 200660 |    | J100 | 72 | X |     |    | 9465 | DSD |    |   |   |
| 200670 |    | J100 | 73 | X |     |    | 9465 | DSD |    |   |   |
| 200680 |    | J100 | 76 | X |     |    | 9465 | DSD |    |   |   |
| 200690 |    | J100 | 74 | X |     |    | 9465 | DSD |    |   |   |
| 200700 |    | J100 | 77 | X |     |    | 9465 | DSD |    |   |   |
| 200710 |    | J100 | 75 | X |     |    | 9465 | DSD |    |   |   |
| 200720 |    | J100 | 78 | X |     |    | 9465 | DSD |    |   |   |
| 200730 | 18 | J100 | 79 | X | D43 | 13 | 9465 | DSD | 24 |   | 6 |
| 200740 | 18 | J100 | 80 | X | D43 | 14 | 9465 | DSD | 24 |   | 0 |
| 200750 | 18 | J100 | 82 | X | D43 | 15 | 9465 | DSD | 24 |   | 2 |
| 300010 | 11 | J101 | 01 | X | C15 | 05 | 9465 | DSD | 24 | A | 0 |
| 300020 | 11 | J101 | 04 | X | C15 | 06 | 9465 | DSD | 24 | A | 4 |
| 300030 | 10 | J101 | 02 | X | C15 | 11 | 9465 | DSD | 24 | B | 0 |
| 300040 | 10 | J101 | 05 | X | C15 | 12 | 9465 | DSD | 24 | B | 4 |
| 300050 | 11 | J101 | 03 | X | C17 | 05 | 9465 | DSD | 24 | C | 0 |
| 300060 | 11 | J101 | 07 | X | C17 | 06 | 9465 | DSD | 24 | C | 4 |
| 300070 | 10 | J101 | 08 | X | C17 | 11 | 9465 | DSD | 24 | D | 0 |
| 300080 | 10 | J101 | 12 | X | C17 | 12 | 9465 | DSD | 24 | D | 4 |
| 300090 | 10 | J101 | 10 | X | C19 | 05 | 9465 | DSD | 24 | E | 0 |
| 300100 | 10 | J101 | 13 | X | C19 | 06 | 9465 | DSD | 24 | E | 4 |
| 300110 | 09 | J101 | 11 | X | C19 | 11 | 9465 | DSD | 24 | F | 0 |
| 300120 | 09 | J101 | 14 | X | C19 | 12 | 9465 | DSD | 24 | F | 4 |
| 300130 | 11 | J101 | 15 | X | C21 | 05 | 9465 | DSD | 24 | G | 0 |
| 300140 | 11 | J101 | 18 | X | C21 | 06 | 9465 | DSD | 24 | G | 4 |
| 300150 | 11 | J101 | 16 | X | C21 | 11 | 9465 | DSD | 24 | H | 0 |
| 300160 | 11 | J101 | 20 | X | C21 | 12 | 9465 | DSD | 24 | H | 4 |
| 300170 | 11 | J101 | 17 | X | C22 | 07 | 9465 | DSD | 24 | J | 0 |
| 300180 | 11 | J101 | 21 | X | C22 | 08 | 9465 | DSD | 24 | J | 4 |
| 300190 | 11 | J101 | 22 | X | C23 | 01 | 9465 | DSD | 24 | K | 0 |
| 300200 | 11 | J101 | 25 | X | C23 | 02 | 9465 | DSD | 24 | K | 4 |
| 300210 | 11 | J101 | 23 | X | C22 | 01 | 9465 | DSD | 24 | L | 0 |
| 300220 | 11 | J101 | 26 | X | C22 | 02 | 9465 | DSD | 24 | L | 4 |
| 300230 | 10 | J101 | 24 | X | C23 | 07 | 9465 | DSD | 24 | M | 0 |

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|        |    |      |    |   |     |    |          |    |   |   |
|--------|----|------|----|---|-----|----|----------|----|---|---|
| 300240 | 10 | J101 | 27 | X | C23 | 08 | 9465 DSD | 24 | M | 4 |
| 300250 | 10 | J101 | 28 | X | C24 | 08 | 9465 DSD | 24 | N | 0 |
| 300260 | 10 | J101 | 31 | X | C24 | 07 | 9465 DSD | 24 | N | 4 |
| 300270 | 14 | J101 | 29 | X | B15 | 11 | 9465 DSD | 24 | P | 0 |
| 300280 | 14 | J101 | 32 | X | B15 | 12 | 9465 DSD | 24 | P | 4 |
| 300290 | 09 | J101 | 30 | X | D19 | 05 | 9465 DSD | 24 | R | 0 |
| 300300 | 09 | J101 | 33 | X | D19 | 06 | 9465 DSD | 24 | R | 4 |
| 300310 | 11 | J101 | 34 | X | C26 | 05 | 9465 DSD | 24 | S | 0 |
| 300320 | 11 | J101 | 37 | X | C26 | 06 | 9465 DSD | 24 | S | 4 |
| 300330 |    | J101 | 35 | X |     |    | 9465 DSD |    |   |   |
| 300340 |    | J101 | 38 | X |     |    | 9465 DSD |    |   |   |
| 300370 |    | J101 | 40 | X |     |    | 9465 DSD |    |   |   |
| 300380 |    | J101 | 43 | X |     |    | 9465 DSD |    |   |   |
| 300390 |    | J101 | 41 | X |     |    | 9465 DSD |    |   |   |
| 300400 |    | J101 | 44 | X |     |    | 9465 DSD |    |   |   |
| 300410 |    | J101 | 42 | X |     |    | 9465 DSD |    |   |   |
| 300420 |    | J101 | 45 | X |     |    | 9465 DSD |    |   |   |
| 300430 |    | J101 | 46 | X |     |    | 9465 DSD |    |   |   |
| 300440 |    | J101 | 49 | X |     |    | 9465 DSD |    |   |   |
| 300450 | 15 | J101 | 47 | X | B27 | 11 | 9465 DSD | 24 | T | 0 |
| 300460 | 15 | J101 | 50 | X | B27 | 12 | 9465 DSD | 24 | T | 4 |
| 300490 | 08 | J101 | 52 | X | D19 | 11 | 9465 DSD | 24 | V | 0 |
| 300500 | 08 | J101 | 55 | X | D19 | 12 | 9465 DSD | 24 | V | 4 |
| 300510 |    | J101 | 53 | X |     |    | 9465 DSD |    |   |   |
| 300520 |    | J101 | 56 | X |     |    | 9465 DSD |    |   |   |
| 300530 |    | J101 | 54 | X |     |    | 9465 DSD |    |   |   |
| 300540 |    | J101 | 57 | X |     |    | 9465 DSD |    |   |   |
| 300550 | 10 | J101 | 58 | X | C26 | 11 | 9465 DSD | 24 | W | 0 |
| 300560 | 10 | J101 | 62 | X | C26 | 12 | 9465 DSD | 24 | W | 4 |
| 300570 | 11 | J101 | 59 | X | C25 | 05 | 9465 DSD | 24 | X | 0 |
| 300580 | 11 | J101 | 63 | X | C25 | 06 | 9465 DSD | 24 | X | 4 |
| 300590 | 17 | J101 | 60 | X | B15 | 05 | 9465 DSD | 24 | Y | 0 |
| 300600 | 17 | J101 | 64 | X | B15 | 06 | 9465 DSD | 24 | Y | 4 |
| 300610 |    | J101 | 65 | X |     |    | 9465 DSD |    |   |   |
| 300620 |    | J101 | 70 | X |     |    | 9465 DSD |    |   |   |
| 300630 |    | J101 | 66 | X |     |    | 9465 DSD |    |   |   |
| 300640 |    | J101 | 71 | X |     |    | 9465 DSD |    |   |   |
| 300650 |    | J101 | 67 | X |     |    | 9465 DSD |    |   |   |
| 300660 |    | J101 | 72 | X |     |    | 9465 DSD |    |   |   |
| 300670 |    | J101 | 73 | X |     |    | 9465 DSD |    |   |   |
| 300680 |    | J101 | 76 | X |     |    | 9465 DSD |    |   |   |
| 300690 |    | J101 | 74 | X |     |    | 9465 DSD |    |   |   |
| 300700 |    | J101 | 77 | X |     |    | 9465 DSD |    |   |   |
| 300710 |    | J101 | 75 | X |     |    | 9465 DSD |    |   |   |
| 300720 |    | J101 | 78 | X |     |    | 9465 DSD |    |   |   |
| 300730 | 13 | J101 | 79 | X | D44 | 13 | 9465 DSD | 24 |   | 6 |
| 300740 | 13 | J101 | 80 | X | D44 | 14 | 9465 DSD | 24 |   | 0 |
| 300750 | 13 | J101 | 82 | X | D44 | 15 | 9465 DSD | 24 |   | 2 |
| 400010 | 11 | J102 | A  | X | C24 | 01 | 9465 DSD | 24 | A | 0 |
| 400020 | 11 | J102 | B  | X | C24 | 02 | 9465 DSD | 24 | A | 4 |
| 400030 | 12 | J102 | D  | X | C25 | 11 | 9465 DSD | 24 | B | 0 |
| 400040 | 12 | J102 | E  | X | C25 | 12 | 9465 DSD | 24 | B | 4 |
| 400070 |    | J102 | H  | X |     |    | 9465 DSD |    |   |   |
| 400080 |    | J102 | J  | X |     |    | 9465 DSD |    |   |   |
| 400090 |    | J102 | K  | X |     |    | 9465 DSD |    |   |   |
| 400100 | 11 | J102 | L  | X | D44 | 15 | 9465 DSD | 24 |   | 2 |

LW45480600 9465 DSD

|        |    |      |    |   |      |    |      |     |    |   |   |
|--------|----|------|----|---|------|----|------|-----|----|---|---|
| 400110 | 11 | J102 | M  | X | D44  | 14 | 9465 | DSD | 24 |   | 0 |
| 400120 | 11 | J102 | N  | X | D44  | 13 | 9465 | DSD | 24 |   | 6 |
| 600010 | 14 | J104 | 01 | X | B08  | 01 | 9465 | DSD | 20 |   | 4 |
| 600020 | 10 | J104 | 02 | X | C01  | 06 | 9465 | DSD | 24 |   | 4 |
| 600030 | 11 | J104 | 03 | X | C01  | 12 | 9465 | DSD | 24 |   | 4 |
| 600040 | 11 | J104 | 04 | X | C02  | 06 | 9465 | DSD | 24 |   | 4 |
| 600050 | 11 | J104 | 05 | X | C02  | 05 | 9465 | DSD | 24 |   | 4 |
| 600060 | 11 | J104 | 07 | X | C02  | 12 | 9465 | DSD | 24 |   | 4 |
| 600070 | 11 | J104 | 08 | X | C03  | 06 | 9465 | DSD | 24 |   | 4 |
| 600080 | 11 | J104 | 10 | X | C04  | 03 | 9465 | DSD | 24 |   | 4 |
| 600100 | 11 | J104 | 12 | X | C04  | 06 | 9465 | DSD | 24 |   | 4 |
| 600110 | 11 | J104 | 13 | X | C03  | 12 | 9465 | DSD | 24 |   | 4 |
| 600120 | 10 | J104 | 14 | X | C03  | 11 | 9465 | DSD | 24 |   | 4 |
| 600130 | 14 | J104 | 15 | X | D20  | 05 | 9465 | DSD | 24 |   | 4 |
| 600140 | 19 | J104 | 16 | X | A25  | 12 | 9465 | DSD | 24 |   | 4 |
| 600150 |    | J104 | 17 | X |      |    | 9465 | DSD |    |   |   |
| 600170 | 17 | J104 | 20 | X | A28  | 09 | 9465 | DSD | 24 | A | 4 |
| 600180 | 17 | J104 | 21 | X | A28  | 14 | 9465 | DSD | 24 | A | 0 |
| 600190 | 12 | J104 | 22 | X | B14  | 07 | 9465 | DSD | 24 | B | 9 |
| 600200 | 12 | J104 | 23 | X | B14  | 01 | 9465 | DSD | 24 | B | 4 |
| 600210 | 12 | J104 | 24 | X | B14  | 15 | 9465 | DSD | 24 | B | 0 |
| 600220 | 19 | J104 | 25 | X | A33  | 15 | 9465 | DSD | 24 | C | 0 |
| 600230 | 19 | J104 | 26 | X | A34  | 01 | 9465 | DSD | 24 | C | 4 |
| 600240 | 20 | J104 | 27 | X | A34  | 15 | 9465 | DSD | 24 | D | 0 |
| 600250 | 20 | J104 | 28 | X | A34  | 07 | 9465 | DSD | 24 | D | 4 |
| 600270 | 24 | J104 | 30 | X | A40  | 06 | 9465 | DSD | 20 |   | 4 |
| 600280 | 23 | J104 | 31 | X | A40  | 12 | 9465 | DSD | 20 |   | 4 |
| 600290 | 23 | J104 | 32 | X | A38  | 06 | 9465 | DSD | 20 |   | 4 |
| 600300 | 23 | J104 | 33 | X | A38  | 12 | 9465 | DSD | 20 |   | 4 |
| 600310 | 25 | J104 | 34 | X | A42  | 06 | 9465 | DSD | 20 |   | 4 |
| 600320 | 25 | J104 | 35 | X | A42  | 12 | 9465 | DSD | 20 |   | 4 |
| 600330 | 21 | J104 | 36 | X | A28  | 09 | 9465 | DSD | 20 |   | 4 |
| 600400 | 21 | J104 | 43 | X | A28  | 05 | 9465 | DSD | 24 |   | 4 |
| 600410 | 21 | J104 | 44 | X | A28  | 01 | 9465 | DSD | 24 |   | 4 |
| 600420 |    | J104 | 45 | X |      |    | 9465 | DSD |    |   |   |
| 600430 | 16 | J104 | 46 | X | J102 | X  | 9465 | DSD | 20 |   | 4 |
| 600440 |    | J104 | 47 | X |      |    | 9465 | DSD |    |   |   |
| 600450 | 06 | J104 | 48 | X | LCG  |    | 9465 | DSD | 16 |   | 4 |
| 600460 | 06 | J104 | 49 | X | LCG  |    | 9465 | DSD | 16 |   | 4 |
| 600470 | 06 | J104 | 50 | X | LCG  |    | 9465 | DSD | 16 |   | 4 |
| 600480 | 22 | J104 | 51 | X | NEG  | 20 | 9465 | DSD | 16 |   | 4 |
| 600490 | 22 | J104 | 52 | X | NEG  | 20 | 9465 | DSD | 16 |   | 4 |
| 600500 | 22 | J104 | 53 | X | NEG  | 20 | 9465 | DSD | 16 |   | 4 |
| 600510 | 22 | J104 | 54 | X | POS  | 20 | 9465 | DSD | 16 |   | 4 |
| 600520 | 22 | J104 | 55 | X | POS  | 20 | 9465 | DSD | 16 |   | 4 |
| 600530 | 22 | J104 | 56 | X | POS  | 20 | 9465 | DSD | 16 |   | 4 |
| 600540 | 16 | J104 | 57 | X | J102 | V  | 9465 | DSD | 20 |   | 4 |
| 600550 | 16 | J104 | 58 | X | J102 | W  | 9465 | DSD | 20 |   | 4 |
| 600560 | 08 | J104 | 59 | X | D18  | 02 | 9465 | DSD | 24 |   | 4 |
| 600560 | 08 | J104 | 59 | X | D02  | 07 | 9465 | DSD |    |   |   |
| 600580 | 16 | J104 | 62 | X | J102 | R  | 9465 | DSD | 20 |   | 4 |
| 600590 | 16 | J104 | 63 | X | J102 | T  | 9465 | DSD | 20 |   | 4 |
| 600600 | 16 | J104 | 64 | X | J102 | U  | 9465 | DSD | 20 |   | 4 |
| 600610 | 24 | J104 | 70 | X | A35  | 15 | 9465 | DSD | 24 | G | 0 |
| 600620 | 24 | J104 | 73 | X | A35  | 01 | 9465 | DSD | 24 | G | 4 |
| 600630 | 22 | J104 | 79 | X | A28  | 01 | 9465 | DSD |    |   |   |
| 600640 | 08 | J104 | 80 | X | D02  | 09 | 9465 | DSD |    |   |   |

LW45480600 9465 DSD

600650 05 J104 78 X 005 12 9465 DSD

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LV45480600 9465 DSD

|        |    |      |    |       |    |          |
|--------|----|------|----|-------|----|----------|
| 600650 | 08 | J104 | 59 | X 002 | 07 | 9465 DSD |
| 700650 | 05 | J104 | 78 | X 005 | 12 | 9465 DSD |





|   |   |                                     |   |              |                          |           |             |                 |         |         |                 |
|---|---|-------------------------------------|---|--------------|--------------------------|-----------|-------------|-----------------|---------|---------|-----------------|
| <b>CONTROL DATA</b>   |   | TITLE<br>R/W LOGIC CHASSIS ASSEMBLY |   | WL           | DOCUMENT NO.<br>46809600 | REV.<br>A |             |                 |         |         |                 |
| MINNEAPOLIS, MINNESOTA  |   | PRODUCT<br>DISK STORAGE DRIVE       |   | SHEET 1 OF 5 |                          |           |             |                 |         |         |                 |
| REVISION STATUS OF SHEETS   |   |                                     |   | REVISIONS    |                          |           |             |                 |         |         |                 |
| 1   | 2 | 3                                   | 4 | 5            | REV.                     | ECO       | DESCRIPTION | DRFT.           | DATE    | CHKD.   | APPD.           |
| A   | A | A                                   | A | A            | A                        | /         | RELEASED    |                 | 2/28/67 |         | 110             |
| NOTES: 1. DETACHED LISTS:<br>A. PL 46810001<br>B. DN & MECH ASSY 46810000<br>2. ASSOCIATED DOCUMENTS:<br>A. CP 46809700<br>B. SCHEMATIC 45527800<br>△ LOGIC CHASSIS GROUND.<br>△ TOLERANCE ON LENGTHS SHOWN TO BE $\pm 0.0$ .<br>△ BLACK BAND END OF CAPACITOR TO BE CONNECTED TO PIN 14 (GROUND) |   |                                     |   |              |                          |           |             |                 |         |         |                 |
| COPIES TO   |   | BY                                  |   | C.M.         | DATE<br>2/22/67          | CHKD.     | LRO         | DATE<br>2/27/67 | ENGR    | D. Dodd | DATE<br>2-27-67 |

| <b>CONTROL DATA</b>    |          | TITLE<br>WIRE LISTING |              | WL              | DOCUMENT NO.<br>46809600 | REV.<br>A        |             |                  |         |
|------------------------|----------|-----------------------|--------------|-----------------|--------------------------|------------------|-------------|------------------|---------|
| MINNEAPOLIS, MINNESOTA |          | SHEET 2 OF            |              |                 |                          |                  |             |                  |         |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.)          | COLOR (REF.) | LENGTH (APPROX) | ORIGIN                   | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS |
| 1                      | 45       | 24                    | 992          | 02              | X12                      | 05               | X12         | 06               |         |
| 2                      |          |                       |              |                 | X12                      | 05               | X14         | 03               |         |
| 3                      |          |                       |              |                 | X18                      | 05               | X19         | 05               |         |
| 4                      |          |                       |              |                 | X19                      | 05               | X20         | 05               |         |
| 5                      |          |                       |              |                 | X20                      | 05               | X21         | 05               |         |
| 6                      |          |                       |              |                 | X21                      | 05               | X22         | 05               |         |
| 7                      |          |                       |              |                 | X22                      | 11               | X21         | 11               |         |
| 8                      |          |                       |              |                 | X21                      | 11               | X20         | 11               |         |
| 9                      |          |                       |              |                 | X20                      | 11               | X19         | 11               |         |
| 10                     |          |                       |              |                 | X19                      | 11               | X18         | 11               |         |
| 11                     |          |                       |              |                 | X12                      | 01               | X10         | 01               |         |
| 12                     |          |                       |              |                 | X12                      | 04               | X10         | 03               |         |
| 13                     |          |                       |              |                 | X10                      | 06               | X10         | 09               |         |
| 14                     |          |                       |              |                 | X04                      | 12               | X05         | 09               |         |
| 15                     |          |                       |              |                 | X05                      | 07               | X06         | 07               |         |
| 16                     |          |                       |              |                 | X06                      | 07               | X07         | 08               |         |
| 17                     |          |                       |              |                 | X05                      | 05               | X06         | 05               |         |
| 18                     | 45       | 24                    | 992          | 02              | X06                      | 05               | X07         | 05               |         |
| 19                     | 39       | COAX                  | 000          | 03              | X07                      | 14               | X06         | 14               |         |





TITLE  
**WIRE LISTING**

WL DOCUMENT NO. 46809600 REV. A

MINNEAPOLIS, MINNESOTA

SHEET 3 OF

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|---------|
| 20               | 39       | COAX         | 000          | 03              | X05    | 14 |                  | X04         | 14 |                  |         |
| 21               | 39       | COAX         | 000          | 03              | X03    | 14 |                  | X02         | 14 |                  |         |
| 22               | 37       | 24           | 222          | 02              | X07    | 15 |                  | X06         | 15 |                  |         |
| 23               | ↑        | ↑            | ↑            | ↑               | X03    | 15 |                  | X02         | 15 |                  |         |
| 24               |          |              |              |                 | X12    | 15 |                  | X13         | 15 |                  |         |
| 25               |          |              |              | ↓               | X18    | 15 |                  | X19         | 15 |                  |         |
| 26               | 37       |              | ↓            | 02              | X20    | 15 |                  | X21         | 15 |                  |         |
| 27               | 43       |              | 222          | 05              | X09    | 15 |                  | X04         | 15 |                  |         |
| 28               | 38       |              | 666          | 02              | X05    | 13 |                  | X04         | 13 |                  |         |
| 29               | ↑        |              | ↑            | ↑               | X07    | 13 |                  | X06         | 13 |                  |         |
| 30               |          |              |              |                 | X03    | 13 |                  | X02         | 13 |                  |         |
| 31               |          |              |              |                 | X08    | 13 |                  | X09         | 13 |                  |         |
| 32               |          |              |              |                 | X18    | 13 |                  | X19         | 13 |                  |         |
| 33               | ↓        |              | ↓            | ↓               | X20    | 13 |                  | X21         | 13 |                  |         |
| 34               | 38       |              | 666          | 02              | X12    | 13 |                  | X13         | 13 |                  |         |
| 35               | 46       |              | 993          | 03              | X22    | 05 |                  | X22         | 11 |                  |         |
| 36               | 46       |              | 993          | 03              | X08    | 02 |                  | X10         | 11 |                  |         |
| 37               | 46       | ↓            | 993          | 03              | X10    | 02 |                  | X08         | 09 |                  |         |
| 38               | 46       | 24           | 993          | 03              | X10    | 04 |                  | X08         | 10 |                  |         |



TITLE  
**WIRE LISTING**

WL DOCUMENT NO. 46809600 REV. A

MINNEAPOLIS, MINNESOTA

SHEET 4 OF

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|---------|
| 39               | 51       | COAX         | 000          | 04              | X01    | 14 |                  | △           |    |                  |         |
| 40               | 46       | 24           | 993          | 03              | X18    | 03 |                  | X18         | 09 |                  |         |
| 41               | ↑        | ↑            | ↑            | ↑               | X19    | 03 |                  | X19         | 09 |                  |         |
| 42               |          |              |              |                 | X20    | 03 |                  | X20         | 09 |                  |         |
| 43               |          |              |              |                 | X21    | 03 |                  | X21         | 09 |                  |         |
| 44               |          |              |              |                 | X22    | 03 |                  | X22         | 09 |                  |         |
| 45               |          |              |              |                 | X04    | 06 |                  | X05         | 01 |                  |         |
| 46               |          |              |              |                 | X06    | 09 |                  | X06         | 14 |                  |         |
| 47               | ↓        | ↓            | ↓            |                 | X10    | 10 |                  | X08         | 11 |                  |         |
| 48               | 46       | 24           | 993          |                 | X14    | 01 |                  | X03         | 06 |                  |         |
| 49               | 39       | COAX         | 000          |                 | X08    | 14 |                  | X09         | 14 |                  |         |
| 50               | ↑        | ↑            | ↑            |                 | X10    | 14 |                  | X11         | 14 |                  |         |
| 51               |          |              |              |                 | X12    | 14 |                  | X13         | 14 |                  |         |
| 52               | ↓        | ↓            | ↓            | ↓               | X18    | 14 |                  | X19         | 14 |                  |         |
| 53               | 39       | COAX         | 000          | 03              | X20    | 14 |                  | X21         | 14 |                  |         |
| 54               | 47       | 24           | 994          | 04              | X09    | 01 |                  | X12         | 11 |                  |         |
| 55               | 47       | 24           | 994          | 04              | X09    | 04 |                  | X12         | 12 |                  |         |
| 56               | 40       | COAX         | 000          | 04              | X14    | 14 |                  | X17         | 14 |                  |         |
| 57               | 51       | COAX         | 000          | 04              | X22    | 14 |                  | △           |    |                  |         |

FORM AA 1609



|              |         |                        |       |              |          |      |   |
|--------------|---------|------------------------|-------|--------------|----------|------|---|
| CONTROL DATA | TITLE   | CONTROL PANEL ASSEMBLY | WL    | DOCUMENT NO. | 41283000 | REV. | E |
|              | PRODUCT | DISK PAK               | SHEET |              | 1 OF 3   |      |   |

| REVISION STATUS OF SHEETS |   |   |  | REVISIONS |         |                                    |       |          |       |          |
|---------------------------|---|---|--|-----------|---------|------------------------------------|-------|----------|-------|----------|
| 1                         | 2 | 3 |  | REV.      | ECO     | DESCRIPTION                        | DRFT. | DATE     | CHKD. | APPD.    |
| A                         | A | A |  | A         |         | RELEASED                           |       | 10/23/60 |       |          |
| B                         | B | B |  | B         | PM0460  | SEE CO                             | BL.   | 5-5-66   | Kil   |          |
| C                         | C | B |  | C         | PM0250  | SEE CO                             | DK    | 3-30-62  | Kil   |          |
|                           |   |   |  | D         | PM3049  | SEE CO                             | DGT   | 6-28-62  | TLT   | 7-3-62   |
|                           |   |   |  | E         | PE12298 | CHG GAUGE, COLOR, LENGTH, & NOTE 2 | HLR   | 11-7-69  | 97    | 11-10-69 |

NOTES:

- DETACHED LISTS:  
A. PL 41274400
- FOR MECH. ASSY SEE 41274400 & 45525700

|           |  |    |     |      |         |       |     |      |          |       |    |      |          |
|-----------|--|----|-----|------|---------|-------|-----|------|----------|-------|----|------|----------|
| COPIES TO |  | BY | L M | DATE | 8-20-65 | CHKD. | L M | DATE | 10-14-65 | APPD. | LR | DATE | 10-15-65 |
|-----------|--|----|-----|------|---------|-------|-----|------|----------|-------|----|------|----------|

|              |                        |              |    |              |          |      |   |
|--------------|------------------------|--------------|----|--------------|----------|------|---|
| CONTROL DATA | TITLE                  | WIRE LISTING | WL | DOCUMENT NO. | 41283000 | REV. | E |
|              | PERIPHERAL EQUIP. DIV. | SHEET        |    | 2 OF         |          |      |   |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH | ORIGIN | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|--------|--------|------------------|-------------|------------------|---------|
| 1                | 13       | 20           | 4            | 16     | P310   | 1                | 14 DS305A   | 1                |         |
| 2                | 13       | 20           | 4            | 16     | DS305A | 2                | P310        | 2                | 14      |
| 3                | 13       |              |              | 16     | P310   | 3                | 14 S305A    | NO               |         |
| 4                | 13       |              |              | 14     | DS302A | 1                | P310        | 4                | 14      |
| 5                | 13       |              |              | 14     | P310   | 5                | 14 DS302B   | 2                |         |
| 6                | 13       |              |              | 12     | S301C  | C                | P310        | 6                | 14      |
| 7                | 13       |              |              | 14     | P310   | 7                | 14 DS301A   | 2                |         |
| 8                | 13       |              |              | 12     | S301B  | C                | P310        | 8                | 14      |
| 9                | 13       |              |              | 12     | P310   | 9                | 14 S301A    | NO               |         |
| 10               | 13       |              |              | 12     | S301B  | NC               | P310        | 10               | 14      |
| 11               | 13       | 20           |              | 12     | P310   | 11               | 14 S301B    | NO               |         |
| 12               | 15       | 24           |              | 02     | S301C  | NO               | DS301A      | 1                |         |
| 13               | 15       | 24           |              | 03     | DS301A | 1                | DS301B      | 1                |         |
| 14               | 15       |              |              | 03     | DS301A | 2                | DS301B      | 2                |         |
| 15               | 15       |              |              | 03     | DS302A | 1                | DS302B      | 1                |         |
| 16               | 15       | 24           |              | 03     | DS302A | 2                | DS302B      | 2                |         |
| 17               | 13       | 20           |              | 08     | DS302A | 2                | S301A       | C                |         |
| 18               | 13       | 20           | 4            | 10     | DS301B | 2                | S305A       | C                |         |
| 19               |          |              |              |        |        |                  |             |                  |         |

FORM 385-2 REVISED 4/2/64



TITLE

## WIRE LISTING

WL

DOCUMENT NO.

41283000

REV.

E

PERIPHERAL EQUIP. DIV.

SHEET 3 OF

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH | ORIGIN |   | DESTINATION |   | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|--------|--------|---|-------------|---|------------------|---------|
|                  |          |              |              |        |        |   |             |   |                  |         |
| 20               | 15       | 24           | 4            | 03     | DS305A | 2 | DS305B      | 2 |                  |         |
| 21               | 15       | 24           | 4            | 03     | DS305A | 1 | DS305B      | 1 |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |
|                  |          |              |              |        |        |   |             |   |                  |         |

FORM 385-2 REVISED 4/2/64



TITLE

ACTUATOR HARNESS

W/L

DOCUMENT NO.

45498200

REV.

C

PRODUCT

DISK STORAGE DRIVE

SHEET 1 OF 3

MINNEAPOLIS, MINNESOTA

## REVISION STATUS OF SHEETS

## REVISIONS

| REV. | ECO    | DESCRIPTION | DRFT. | DATE    | CHKD. | APPD. |
|------|--------|-------------|-------|---------|-------|-------|
| A    | -----  | RELEASED    |       | 9-13-68 |       | MB    |
| B    | PM4950 | SEE CO      |       | 3-13-69 |       |       |
| C    | PM4914 | SEE CO      |       | 4-4-69  |       |       |
|      |        |             |       |         |       |       |
|      |        |             |       |         |       |       |
|      |        |             |       |         |       |       |
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|      |        |             |       |         |       |       |
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|      |        |             |       |         |       |       |
|      |        |             |       |         |       |       |
|      |        |             |       |         |       |       |
|      |        |             |       |         |       |       |

## NOTES:

1. FOR MECH ASSY SEE 45497800.

COPIES TO

BY *RSA* DATE *8/30/68* CHKD. *RG* DATE *9/13/68* ENGR *MB* DATE *9/13/68*

FORM AA 1672

**CONTROL DATA**  
CONTROL DATA CORPORATION

TITLE  
**WIRE LISTING**

WL DOCUMENT NO. 45498200 REV. C  
 SHEET 2 OF

MINNEAPOLIS, MINNESOTA

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN   |          | ACCESS. FIND NO. | DESTINATION |         | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|----------|----------|------------------|-------------|---------|------------------|---------|
| 1                | 9        | 20           | 4            | 19              | P220     | 1        | 2                | X22         | 06      | 6,13             |         |
| 2                | ↑        | ↑            | ↑            | ↑               | P220     | 2        | 2                | X21         | 12      | 6,13             |         |
| 3                | ↓        | ↓            | ↓            | ↓               | P220     | 3        | 2                | X20         | 06      | 6,13             |         |
| 4                | ↓        | ↓            | ↓            | ↓               | P220     | 4        | 2                | X19         | 12      | 6,13             |         |
| 5                | 9        | 20           | 4            | 19              | P220     | 5        | 2                | X18         | 06      | 6,13             |         |
| 6                | 8        |              |              |                 |          |          |                  |             |         |                  | △3      |
| 6A               |          |              | 9            | 17              | COND 7   |          |                  | COND 8      |         |                  |         |
| 6B               |          |              | SHIELD       | 16              | COND 9   |          |                  | COND 10     |         |                  |         |
| 7                | 10       | 24           | 4            | 1 3/4           | P220     | 6        | 1                | COND 6A     |         |                  |         |
| 8                | 10       | 24           | 4            | 1.5             | COND 6A  |          |                  | X12         | 01      | 5,12             |         |
| 9                | 11       | 24           | 0            | 2.5             | P220     | 14       | 1                | SHIELD      | COND 6B |                  |         |
| 10               | 11       | 24           | 0            | 3               | SHIELD   | COND 6B  |                  | X12         | 14      | 5,12             |         |
| 11               | 8        |              |              |                 |          |          |                  |             |         |                  | △4      |
| 11A              |          |              | 9            | 17              | COND 12  |          |                  | COND 13     |         |                  |         |
| 11B              |          |              | SHIELD       | 16              | COND 14  |          |                  | COND 15     |         |                  |         |
| 12               | 10       | 24           | 4            | 1 3/4           | P220     | 7        | 1                | COND 11A    |         |                  |         |
| 13               | 10       | 24           | 4            | 1.5             | COND 11A |          |                  | X10         | 05      | 5,12             |         |
| 14               | 11       | 24           | 0            | 1 1/2           | COND 6B  |          |                  | COND 11B    |         |                  |         |
| 15               | 11       | 24           | 0            | 3               | SHIELD   | COND 11B |                  | X10         | 14      | 5,12             |         |

**CONTROL DATA**  
CONTROL DATA CORPORATION

TITLE  
**WIRE LISTING**

WL DOCUMENT NO. 45498200 REV. C  
 SHEET 3 OF 3

MINNEAPOLIS, MINNESOTA

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN   |          | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|----------|----------|------------------|-------------|----|------------------|---------|
| 16               | 8        |              |              |                 |          |          |                  |             |    |                  | △5      |
| 16A              |          |              | 9            | 17              | COND 17  |          |                  | COND 18     |    |                  |         |
| 16B              |          |              | SHIELD       | 16              | COND 19  |          |                  | COND 20     |    |                  |         |
| 17               | 10       | 24           | 4            | 1 3/4           | P220     | 8        | 1                | COND 16A    |    |                  |         |
| 18               | 10       | 24           | 4            | 1.5             | COND 16A |          |                  | X12         | 04 | 5,12             |         |
| 19               | 11       | 24           | 0            | 1 1/2           | COND 11B |          |                  | COND 16B    |    |                  |         |
| 20               | 11       | 24           | 0            | 3               | SHIELD   | COND 16B |                  | X11         | 14 | 5,12             |         |
| 21               | 9        | 20           | 4            | 19              | P220     | 09       | 2                | X18         | 12 | 6,13             |         |
| 22               | ↑        | ↑            | ↑            | ↑               | P220     | 10       | 2                | X19         | 06 | 6,13             |         |
| 23               | ↓        | ↓            | ↓            | ↓               | P220     | 11       | 2                | X20         | 12 | 6,13             |         |
| 24               | ↓        | ↓            | ↓            | ↓               | P220     | 12       | 2                | X21         | 06 | 6,13             |         |
| 25               | 9        | 20           | 4            | 19              | P220     | 13       | 2                | X22         | 12 | 6,13             |         |

FORM AA 1669



| <b>CONTROL DATA</b><br><b>CORPORATION</b><br>MINNEAPOLIS, MINNESOTA   | TITLE<br>ACTUATOR HARNESS  | W/L          | DOCUMENT NO.<br>45444900 | REV.<br>B |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--------------|--------------------------|-----------|---------------------------|-------|---------|--|-----------|--|--|--|------|-----|-------------|-------|------|-------|-------|--|---|-------|----------|--|---------|--|----|--|---|--------|---------|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|   | PRODUCT<br>DISK STORAGE DRIVE  | SHEET 1 OF 3 |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: left;">REVISION STATUS OF SHEETS</th> <th colspan="4" style="text-align: left;">REVISIONS</th> </tr> <tr> <th>REV.</th> <th>ECO</th> <th>DESCRIPTION</th> <th>DRFT.</th> <th>DATE</th> <th>CHKD.</th> <th>APPD.</th> <th></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-----</td> <td>RELEASED</td> <td></td> <td>9-13-68</td> <td></td> <td>MB</td> <td></td> </tr> <tr> <td>B</td> <td>PM4677</td> <td>SEE CO.</td> <td>TM</td> <td>5-12-69</td> <td></td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> |              |                          |           | REVISION STATUS OF SHEETS |       |         |  | REVISIONS |  |  |  | REV. | ECO | DESCRIPTION | DRFT. | DATE | CHKD. | APPD. |  | A | ----- | RELEASED |  | 9-13-68 |  | MB |  | B | PM4677 | SEE CO. | TM | 5-12-69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| REVISION STATUS OF SHEETS   |  |              |                          | REVISIONS |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| REV.  | ECO  | DESCRIPTION  | DRFT.                    | DATE      | CHKD.                     | APPD. |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A   | -----  | RELEASED     |                          | 9-13-68   |                           | MB    |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B   | PM4677   | SEE CO.      | TM                       | 5-12-69   |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>NOTES:</b><br>1. A HEXAGON IN THE ACCESS FIND NO. COLUMN INDICATES THAT THE CONDUCTOR IS ONE OF SEVERAL (ALL WITH THE SAME NUMBER IN THE HEXAGON) GOING INTO THE SAME TERMINAL. THE NUMBER IN FRONT OF THE HEXAGON IS THE TERMINAL FIND NO.<br>2. USE EXISTING LEADS FROM L210.<br>3. USE EXISTING LEADS FROM M260.<br>4.<br>5. USE EXISTING LEADS FROM CR10 AND CR15.<br>6. DETACHED LISTS:<br>A. DN 45444900 |  |              |                          |           |                           |       |         |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COPIES TO   | BY   | DATE         | CHKD.                    | DATE      | ENGR                      | RMO   | DATE    |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | B. Mc  | 9/13/68      |                          | 9-13-68   |                           |       | 9-13-68 |  |           |  |  |  |      |     |             |       |      |       |       |  |   |       |          |  |         |  |    |  |   |        |         |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|   |                       |          |              |              |                 |        |                  |             |                  |                          |           |
|---|-----------------------|----------|--------------|--------------|-----------------|--------|------------------|-------------|------------------|--------------------------|-----------|
| <b>CONTROL DATA</b><br><b>CORPORATION</b><br>MINNEAPOLIS, MINNESOTA | TITLE<br>WIRE LISTING |          |              |              |                 |        |                  |             | W/L              | DOCUMENT NO.<br>45444900 | REV.<br>B |
|   | SHEET 2 OF            |          |              |              |                 |        |                  |             |                  |                          |           |
|   | CONDUCTOR IDENT.      | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS                  |           |
| 1   | 8                     | 24       | 4            | 11           | L210 T          | 2      | J230 J           | 2           | 6                |                          |           |
| 2   | 8                     | 24       | 4            | 11           | L210 B          | 2      | J230 H           | 2           | 6                |                          |           |
| 3   |                       | 18       | 2            | 14           | M260            | 3      | J230 M           | 94          | 9 10             |                          |           |
| 4   |                       | 18       | 0            | 14           | M260            | 3      | J230 L           | 94          | 9 10             |                          |           |
| 5   | 2                     | 24       |              |              |                 |        |                  |             | 7                |                          |           |
| 5A  |                       |          | 0            | 16           | J230 N          | 1      | TB200 B          | 3,4         |                  |                          |           |
| 5B  |                       |          | 4            | 16           | J230 P          | 1      | TB200 T          | 3,4         |                  |                          |           |
| 6   | 2                     | 24       |              |              |                 |        |                  |             |                  |                          |           |
| 6A  |                       |          | 0            | 8            | J230 T          | 1      | TB201 R          | 3,4         |                  |                          |           |
| 6B  |                       |          | 4            | 8            | J230 U          | 1      | TB201 L          | 3,4         |                  |                          |           |
| 7   | 2                     | 24       |              |              |                 |        |                  |             |                  |                          |           |
| 7A  |                       |          | 0            | 14           | J230 R          | 1      | TB202 B          | 3,4         |                  |                          |           |
| 7B  |                       |          | 4            | 14           | J230 Z          | 1      | TB202 T          | 3,4         | 7                |                          |           |
| 8   | 2                     | 30       |              |              |                 |        |                  |             | 8                |                          |           |
| 8A  |                       |          | 2            | 12           | L200 B          | 7 1    | J230 X           | 1           |                  |                          |           |
| 8B  |                       |          | 9            | 12           | L200 T          | 7      | J230 K           | 1 2         |                  |                          |           |
| 8C  |                       |          | 6            | 13           | S200 NO         | 8      | J230 V           | 1           |                  |                          |           |
| 8D  |                       |          | 5            | 13           | S200 NC         | 8      | J230 Y           | 1 3         |                  |                          |           |
| 9   | 3                     | 30       | 2            | 2            | S200 C          | 8      | L200 B           | 1           | 8                |                          |           |

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|---|-------|--|--------------|--|------------|--------------|------|
| <b>CONTROL DATA</b><br>MINNEAPOLIS, MINNESOTA | TITLE |  | WIRE LISTING |  | WL         | DOCUMENT NO. | REV. |
|   |       |  |              |  |            | 45444900     | B    |
| MINNEAPOLIS, MINNESOTA                        |       |  |              |  | SHEET 3 OF |              |      |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |   | ACCESS. FIND NO. | DESTINATION |   | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|---|------------------|-------------|---|------------------|---------|
|                  |          |              |              |                 |        |   |                  |             |   |                  |         |
| 10               | 9        | 24           | 4            | 8               | L201   | T | 7                | J230        | K | 2                | 8       |
| 11               | 9        | 24           | 4            | 9               | L201   | B | 7                | J230        | Y | 3                | 8       |
| 12               | 93       |              |              |                 |        |   |                  |             |   |                  | 9       |
| 12A              |          |              |              |                 | CR15   | T | 5                | L201        | T |                  | ↑       |
| 12B              |          |              |              |                 | CR15   | B | 5                | L201        | B |                  | ↑       |
| 13               | 93       |              |              |                 |        |   |                  |             |   |                  |         |
| 13A              |          |              |              |                 | CR10   | T | 5                | L200        | T |                  | ↓       |
| 13B              |          |              |              |                 | CR10   | B | 5                | L200        | B |                  | 9       |

|  |         |  |                             |  |              |              |      |
|--|---------|--|-----------------------------|--|--------------|--------------|------|
| <b>CONTROL DATA</b><br>CORPORATION<br>MINNEAPOLIS, MINNESOTA | TITLE   |  | DUO-TYPE CONNECTOR ASSEMBLY |  | WL           | DOCUMENT NO. | REV. |
|  | PRODUCT |  | DISK PAK                    |  |              | 45513300     | A    |
| MINNEAPOLIS, MINNESOTA                                       |         |  |                             |  | SHEET 1 OF 2 |              |      |

| REVISION STATUS OF SHEETS |   |  |  | REVISIONS |     |             |       |         |       |       |
|---------------------------|---|--|--|-----------|-----|-------------|-------|---------|-------|-------|
| 1                         | 2 |  |  | REV.      | ECO | DESCRIPTION | DRFT. | DATE    | CHKD. | APPD. |
| A                         | A |  |  | A         |     | RELEASED    |       | 4/22/66 |       | MB    |

NOTES: 1. DETACHED LISTS: 3 TOLERANCES ON THESE LENGTHS TO BE  $+1^{\prime\prime}$   
 $-0^{\prime\prime}$

A. PL 45519200  
B. FOR MECH ASSY SEE 45519200

2 FOR CONDUCTOR DESIGNATION  
SEE R/W LOGIC WIRE LIST

|           |  |  |  |    |     |      |         |       |     |      |         |      |     |      |         |
|-----------|--|--|--|----|-----|------|---------|-------|-----|------|---------|------|-----|------|---------|
| COPIES TO |  |  |  | BY | PJN | DATE | 4-21-66 | CHKD. | LRO | DATE | 4-21-66 | ENGR | JCP | DATE | 4-21-66 |
|-----------|--|--|--|----|-----|------|---------|-------|-----|------|---------|------|-----|------|---------|

FORM AA 1672

| CONTROL DATA           |          |              | TITLE        |                 |        |    |                  | WL                       |                  | DOCUMENT NO. | REV. |
|------------------------|----------|--------------|--------------|-----------------|--------|----|------------------|--------------------------|------------------|--------------|------|
| CORPORATION            |          |              | WIRE LISTING |                 |        |    |                  |                          |                  | 45513300     | A    |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                  |                          |                  | SHEET 2 OF   |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION <sup>2</sup> | ACCESS. FIND NO. | REMARKS      |      |
| 1                      | 3        | 24           | 6            | 5               | J240   | 1  |                  |                          | 2                |              |      |
| 2                      | 4        | 24           | 6            | 3               | ↑      | 5  |                  |                          | 2                |              |      |
| 3                      | 5        | 24           | 2            | 4               | ↑      | 14 |                  |                          | 2                |              |      |
| 4                      | 6        |              | 0            |                 |        | 7  |                  |                          |                  |              |      |
| 5                      | 6        |              | 0            |                 | ↓      | 8  |                  |                          |                  |              |      |
| 6                      | 7        | 24           | 2            | 2               | J240   | 10 |                  |                          | 2                |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |
|                        |          |              |              |                 |        |    |                  |                          |                  |              |      |

| CONTROL DATA              |   |  | TITLE               |  |  |  |           | WL             |             | DOCUMENT NO. | REV.    |       |       |
|---------------------------|---|--|---------------------|--|--|--|-----------|----------------|-------------|--------------|---------|-------|-------|
| CORPORATION               |   |  | FILTER BOX ASSEMBLY |  |  |  |           |                |             | 45479200     | A       |       |       |
| MINNEAPOLIS, MINNESOTA    |   |  | PRODUCT             |  |  |  |           |                |             | SHEET 1 OF 2 |         |       |       |
|                           |   |  | DISK STORAGE DRIVE  |  |  |  |           |                |             |              |         |       |       |
| REVISION STATUS OF SHEETS |   |  |                     |  |  |  | REVISIONS |                |             |              |         |       |       |
| 1                         | 2 |  |                     |  |  |  | REV.      | ECO            | DESCRIPTION | DRFT.        | DATE    | CHKD. | APPD. |
| A                         | A |  |                     |  |  |  | A         | <del>ECO</del> | RELEASED    |              | 4/23/68 |       | MB    |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
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|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |
|                           |   |  |                     |  |  |  |           |                |             |              |         |       |       |

NOTES:  
 1. DETACHED LISTS:  
 A. PL 46822503.  
 B. FOR MECH. ASSY SEE 46822503.

|           |    |        |      |        |       |      |      |         |      |        |      |         |
|-----------|----|--------|------|--------|-------|------|------|---------|------|--------|------|---------|
| COPIES TO | BY | J.L.S. | DATE | 4/8/68 | CHKD. | G.F. | DATE | 4/15/68 | ENGR | T.M.P. | DATE | 4/15/68 |
|-----------|----|--------|------|--------|-------|------|------|---------|------|--------|------|---------|

| <b>CONTROL DATA</b>    |          | TITLE        |              |                 |        |   | DOCUMENT NO.     |             | REV.     |                  |         |
|------------------------|----------|--------------|--------------|-----------------|--------|---|------------------|-------------|----------|------------------|---------|
| MINNEAPOLIS, MINNESOTA |          | WIRE LISTING |              |                 |        |   | WL               |             | 45479200 |                  | A       |
|                        |          |              |              |                 |        |   | SHEET 2 OF 2     |             |          |                  |         |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |   | ACCESS. FIND NO. | DESTINATION |          | ACCESS. FIND NO. | REMARKS |
| 1                      | B        | 16           |              |                 |        |   |                  |             |          |                  |         |
| 1A                     |          |              | 0            |                 | PO1    | A |                  | FL303       | B        |                  | ØA      |
| 1B                     |          |              | 3            |                 | PO1    | D |                  | FL301       | B        |                  | ØC      |
| 1C                     |          |              | 2            |                 | PO1    | E |                  | FL300       | B        |                  | ØB      |
| 1D                     |          |              | 9            |                 | PO1    | B |                  | FL302       | B        |                  | NEUTRAL |
| 1E                     |          |              | 5            |                 | PO1    | C |                  | GROUND      | -        |                  |         |

FORM AA 1672

| <b>CONTROL DATA</b>       |   | TITLE            |         |             |  |  | DOCUMENT NO. |         | REV.     |       |   |
|---------------------------|---|------------------|---------|-------------|--|--|--------------|---------|----------|-------|---|
| MINNEAPOLIS, MINNESOTA    |   | FINAL ASSEMBLY I |         |             |  |  | WL           |         | 45526700 |       | C |
|                           |   | PRODUCT          |         |             |  |  | SHEET 1 OF 2 |         |          |       |   |
|                           |   | DISK PAK         |         |             |  |  |              |         |          |       |   |
| REVISION STATUS OF SHEETS |   |                  |         | REVISIONS   |  |  |              |         |          |       |   |
| 1                         | 2 | REV.             | ECO     | DESCRIPTION |  |  | DRFT.        | DATE    | CHKD.    | APPD. |   |
| A                         | A | A                |         | RELEASED    |  |  |              | 5-20-66 |          | NB    |   |
| B                         | B | B                | PM 1164 | SEE CO      |  |  | LRH          | 3-9-67  | RTR      |       |   |
| C                         | C | C                | PM 2131 | SEE CO      |  |  | S.C.         | 11-1-67 | EW       | 2-23  |   |

NOTES: **1** A HEXAGON IN THE ACCESS FIND NO. COLUMN INDICATES THAT THE CONDUCTOR IS ONE OF SEVERAL (ALL WITH THE SAME NUMBER IN THE HEXAGON) GOING INTO THE SAME TERMINAL. A NUMBER IN FRONT OF A HEXAGON IS THE TERMINAL FIND NO.

**2.** DETACHED LISTS:  
A. PARTS LIST  
B. FOR MECH ASSY SEE 41251000

**3** FOR FIND NO'S & ACCESS FIND NO'S SEE:  
A. W11 WIRE LIST 41288600  
B. W11 PARTS LIST 41262300

**4** TOLERANCES ON LENGTHS SHOWN TO BE  $\pm 1''$   
 $\pm 0''$

|           |  |    |      |      |         |       |     |      |         |      |    |      |         |
|-----------|--|----|------|------|---------|-------|-----|------|---------|------|----|------|---------|
| COPIES TO |  | BY | K.T. | DATE | 4-21-66 | CHKD. | LRO | DATE | 4-21-66 | ENGR | JW | DATE | 4/21/66 |
|-----------|--|----|------|------|---------|-------|-----|------|---------|------|----|------|---------|

FORM AA 1672



| CONTROL DATA           |          | TITLE<br>WIRE LISTING |              |                 |        |                  |             |                  | WL      |  | DOCUMENT NO.<br>45526700 | REV.<br>C |
|------------------------|----------|-----------------------|--------------|-----------------|--------|------------------|-------------|------------------|---------|--|--------------------------|-----------|
| MINNEAPOLIS, MINNESOTA |          | SHEET 2 OF            |              |                 |        |                  |             |                  |         |  |                          |           |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.)          | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS |  |                          |           |
| 1                      | 51       | 24                    | 4            | 9               | J230   | K                | L201        | T                | 66 (1)  |  |                          |           |
| 2                      | 51       | 24                    | 4            | 11              | L201   | T                | TB320       | 8                | 58      |  |                          |           |
| 3                      | 62       | 24                    | 4            | 12              | TB320  | 6                | L201        | B                | 66      |  |                          |           |
| 4                      | 51       | 24                    | 4            | 8               | J230   | V                | TB320       | 4                | 58      |  |                          |           |
| 5                      | 108      | 20                    | 4            | 8               | J230   | X                | TB320       | 10               | 58      |  |                          |           |
| 6                      | (3)      |                       |              |                 |        |                  |             |                  |         |  |                          |           |
| 6A                     |          |                       |              |                 | L200   | B                | TB320       | 7                |         |  |                          |           |
| 6B                     |          |                       |              |                 | S200   | NC               | TB320       | 5                |         |  |                          |           |
| 6C                     |          |                       |              |                 | S200   | NO               | TB320       | 3                |         |  |                          |           |
| 6D                     |          |                       |              |                 | S200   | C                | TB320       | 1                |         |  |                          |           |
| 7                      | (3)      |                       |              |                 | L200   | T                | TB320       | 9                |         |  |                          |           |
| 8                      | 108      | 20                    | 4            | 8               | TB320  | 10               | TB320       | 2                | 58      |  |                          |           |

| CONTROL DATA              |   | TITLE<br>VOLTAGE ADJ. ASSEMBLY (+20VDC) |     |             |       |        |       |                    | WL |  | DOCUMENT NO.<br>41297200 | REV.<br>A |
|---------------------------|---|---|-----|-------------|-------|--------|-------|--------------------|----|--|--------------------------|-----------|
| MINNEAPOLIS, MINNESOTA    |   | SHEET 1 OF 2                            |     |             |       |        |       |                    |    |  |                          |           |
| PRODUCT<br>DISK PAK       |   | REVISIONS                               |     |             |       |        |       |                    |    |  |                          |           |
| REVISION STATUS OF SHEETS |   | REV.                                    | ECO | DESCRIPTION | DRFT. | DATE   | CHKD. | APPD.              |    |  |                          |           |
| 1                         | 2 | A                                       | A   | RELEASED    |       | 2/7/66 |       | <i>[Signature]</i> |    |  |                          |           |

NOTES:

- THESE DESIGNATIONS, L, (LEFT) C, (CENTER) & R, (RIGHT) ARE WHEN VIEWED FROM TERMINAL BLOCK SIDE OF ASSEMBLY.
- DETACHED LISTS:
  - A. P/L 41253200
  - B. FOR MECH ASSY SEE 41253200

|           |    |      |      |        |       |     |      |        |      |    |      |        |
|-----------|----|------|------|--------|-------|-----|------|--------|------|----|------|--------|
| COPIES TO | BY | K.T. | DATE | 2-4-66 | CHKD. | LRO | DATE | 2-4-66 | ENGR | KY | DATE | 2-4-66 |
|-----------|----|------|------|--------|-------|-----|------|--------|------|----|------|--------|

FORM AA 1872



| <b>CONTROL DATA</b>    |          | TITLE        |              |                 | WIRE LISTING |   |                  |                          |   | DOCUMENT NO.     |                                 | REV.     |
|------------------------|----------|--------------|--------------|-----------------|--------------|---|------------------|--------------------------|---|------------------|---------------------------------|----------|
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |              |   |                  |                          |   | WL               |                                 | 41297200 |
| SHEET 2 OF             |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN       |   | ACCESS. FIND NO. | DESTINATION <sup>1</sup> |   | ACCESS. FIND NO. | REMARKS                         |          |
| 1                      | 12       | 16           | 9            | 6               | TBO6         | 1 |                  | RO3                      | L |                  | FROM 45 TERMINAL ON ORIGIN      |          |
| 2                      | 12       | 16           | 9            | 6               | TBO6         | 1 |                  | RO3                      | C |                  | FROM BTM. OF 90 TERM. ON ORIGIN |          |
| 3                      | 12       | 16           | 9            | 6               | TBO6         | 2 |                  | RO3                      | R |                  | FROM 45 TERMINAL ON ORIGIN      |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |
|                        |          |              |              |                 |              |   |                  |                          |   |                  |                                 |          |

| <b>CONTROL DATA</b>       |   | TITLE   |  |  | VOLTAGE ADJ. ASSEMBLY (-20 VDC) |     |             |       |        | DOCUMENT NO. |                    | REV.     |
|---------------------------|---|---------|--|--|---------------------------------|-----|-------------|-------|--------|--------------|--------------------|----------|
| MINNEAPOLIS, MINNESOTA    |   | PRODUCT |  |  |                                 |     |             |       |        | WL           |                    | 41297300 |
| DISK PAK                  |   |         |  |  |                                 |     |             |       |        |              |                    |          |
| SHEET 1 OF 2              |   |         |  |  |                                 |     |             |       |        |              |                    |          |
| REVISION STATUS OF SHEETS |   |         |  |  | REVISIONS                       |     |             |       |        |              |                    |          |
| 1                         | 2 |         |  |  | REV.                            | ECO | DESCRIPTION | DRFT. | DATE   | CHKD.        | APPD.              |          |
| A                         | A |         |  |  | A                               | /   | RELEASED    |       | 2/7/66 |              | <i>[Signature]</i> |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |
|                           |   |         |  |  |                                 |     |             |       |        |              |                    |          |

**NOTES:**

1 THESE DESIGNATIONS; L, (LEFT) C, (CENTER) & R, (RIGHT) ARE WHEN VIEWED FROM TERMINAL BLOCK SIDE OF ASSEMBLY.

2 DETACHED LISTS:  
 A. P/L 41243300  
 B. FOR MECH ASSY SEE 41253300

|           |  |  |  |    |      |      |        |       |     |      |        |      |    |      |        |
|-----------|--|--|--|----|------|------|--------|-------|-----|------|--------|------|----|------|--------|
| COPIES TO |  |  |  | BY | K.T. | DATE | 2-4-66 | CHKD. | LRO | DATE | 2-4-66 | ENGR | KY | DATE | 2-4-66 |
|-----------|--|--|--|----|------|------|--------|-------|-----|------|--------|------|----|------|--------|





| CONNECTION DATA        |          | TITLE        |              | WIRE LISTING    |        |   | WL              |             | DOCUMENT NO. |                 | REV.                            |  |
|------------------------|----------|--------------|--------------|-----------------|--------|---|-----------------|-------------|--------------|-----------------|---------------------------------|--|
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |   |                 |             | 41297300     |                 | 4                               |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 | SHEET 2 OF                      |  |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |   | ACCESS FIND NO. | DESTINATION |              | ACCESS FIND NO. | REMARKS                         |  |
| 1                      | 12       | 16           | 9            | 6               | TB07   | 1 |                 | RO4         | L            |                 | FROM 45 TERMINAL ON ORIGIN      |  |
| 2                      | 12       | 16           | 9            | 6               | TB07   | 1 |                 | RO4         | C            |                 | FROM BTM. OF 90 TERM. ON ORIGIN |  |
| 3                      | 12       | 16           | 9            | 6               | TB07   | 2 |                 | RO4         | R            |                 | FROM 45 TERMINAL ON ORIGIN      |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |
|                        |          |              |              |                 |        |   |                 |             |              |                 |                                 |  |

| CONNECTION DATA           |          | TITLE       |  | IDENTIFICATION PLATE ASSEMBLY |           |         | WL    |       | DOCUMENT NO. |  | REV.         |  |
|---------------------------|----------|-------------|--|-------------------------------|-----------|---------|-------|-------|--------------|--|--------------|--|
| MINNEAPOLIS, MINNESOTA    |          |             |  |                               |           |         |       |       | 41289600     |  | 0            |  |
|                           |          | PRODUCT     |  | DISK STORAGE DRIVE            |           |         |       |       |              |  | SHEET 1 OF 2 |  |
| REVISION STATUS OF SHEETS |          |             |  |                               | REVISIONS |         |       |       |              |  |              |  |
| REV.                      | ECO      | DESCRIPTION |  |                               | DRFT.     | DATE    | CHKD. | APPD. |              |  |              |  |
| A                         |          | RELEASED    |  |                               |           | 4-13-66 |       |       |              |  |              |  |
| B                         | 1M1374   | SEE CO      |  |                               | DRB       | 5-10-67 | RTIC  |       |              |  |              |  |
| C                         | PM24,24  | SEE CO      |  |                               | SD        | 1-4-68  | ISW   |       |              |  |              |  |
| D                         | PM24,24A | SEE CO      |  |                               | JF        | 3-19-68 | 1LT   |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |
|                           |          |             |  |                               |           |         |       |       |              |  |              |  |

NOTES: 1. DETACHED LISTS:  
A. PL 41254400  
B. FOR BENCH COPY SEE 41254400  
2. FOR CONDUCTOR DESTINATION OF CONDUCTOR IDENT. # 1, 3, 4, 5 AND 7 SEE LOGIC WIRE LIST  
3. WIRE LENGTH TOLERANCE +1, -0.

|           |    |     |      |        |       |     |      |        |      |     |      |         |
|-----------|----|-----|------|--------|-------|-----|------|--------|------|-----|------|---------|
| COPIES TO | BY | PJR | DATE | 4-5-66 | CHKD. | LRO | DATE | 4-7-66 | ENGR | JCP | DATE | 4-11-66 |
|-----------|----|-----|------|--------|-------|-----|------|--------|------|-----|------|---------|



| <b>CONTROL DATA</b><br>MINNEAPOLIS, MINNESOTA |          | TITLE<br><b>WIRE LISTING</b> |              |                 |        |    | WL               |             | DOCUMENT NO.<br>41289600 |                  | REV.<br>D |
|---|----------|------------------------------|--------------|-----------------|--------|----|------------------|-------------|--------------------------|------------------|-----------|
|   |          |                              |              |                 |        |    |                  |             | SHEET 2 OF               |                  |           |
| CONDUCTOR IDENT.                              | FIND NO. | GAUGE (REF.)                 | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |                          | ACCESS. FIND NO. | REMARKS   |
| 1   | 7        | 24                           | 4            | 14              | S100   | 02 |                  |             |                          | 6,8              |           |
| 2   | 11       | 22                           |              | 1               | S100   | 03 |                  | S100        | 02                       |                  |           |
| 3   | 9        | 24                           | 4            | 18              | S101   | 02 |                  |             |                          | 6,8              |           |
| 4   | 10       | 24                           | 4            | 20              | S101   | 03 |                  |             |                          | 6,8              |           |
| 5   | 8        | 24                           | 4            | 10              | S100   | A  |                  |             |                          | 6,8              |           |
| 6   | 6        | 24                           | 4            | 4               | S101   | B  |                  | S100        | A                        |                  |           |
| 7   | 13       | 24                           | 4            | 10              | TP100  |    |                  |             |                          | 6,8              |           |

|   |  |                                      |  |  |  |  |    |  |                          |  |           |
|---|--|--------------------------------------|--|--|--|--|----|--|--------------------------|--|-----------|
| <b>CONTROL DATA</b><br>MINNEAPOLIS, MINNESOTA |  | TITLE<br><b>FRONT PANEL ASSY</b>     |  |  |  |  | WL |  | DOCUMENT NO.<br>70538000 |  | REV.<br>E |
|   |  | PRODUCT<br><b>DISK STORAGE DRIVE</b> |  |  |  |  |    |  | SHEET 1 OF 2             |  |           |

| REVISION STATUS OF SHEETS |     | REVISIONS                           |       |          |       |          |  |  |
|---------------------------|-----|-------------------------------------|-------|----------|-------|----------|--|--|
| REV.                      | ECO | DESCRIPTION                         | DRFT. | DATE     | CHKD. | APPD.    |  |  |
| 1                         | 2   |                                     |       |          |       |          |  |  |
|                           | A   | RELEASED                            |       | 4-15-68  |       |          |  |  |
|                           | B   | PM3088 SEE CO                       | EW    | 6-14-68  | TLT   | 6-18-68  |  |  |
|                           | C   | PM5334 DRAWING WAS 45480300         | DC    | 6-17-69  | 97    | 6-20-69  |  |  |
|                           | D   | PEI2231 NOTE CHG ONLY S/N 13000     | FJC   | 10-17-69 | 97    | 10-22-69 |  |  |
|                           | E   | 12225 DWG NO WAS 45419200 S/N 13000 | DC    | 10-28-69 | TLT   | 11-3-69  |  |  |

NOTES:

- DETACHED LISTS:  
A. PL 70537700  
B. FOR MECH ASSY SEE 70537700

2. THESE CONDUCTORS ARE PART OF ARC SUPPRESSOR ASSY. F/N 50.

|           |    |        |      |         |       |    |      |         |      |     |      |         |
|-----------|----|--------|------|---------|-------|----|------|---------|------|-----|------|---------|
| COPIES TO | BY | J.L.S. | DATE | 4-15-68 | CHKD. | HJ | DATE | 4-15-68 | ENGR | TLT | DATE | 4-15-68 |
|-----------|----|--------|------|---------|-------|----|------|---------|------|-----|------|---------|

| CONDUCTOR IDENT. |    | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO. | DESTINATION |    | ACCESS FIND NO. | REMARKS |
|------------------|----|----------|--------------|--------------|-----------------|--------|----|-----------------|-------------|----|-----------------|---------|
| 1                | 2  |          |              |              |                 | K03    | 4C |                 | TB09        | 2  |                 |         |
| 2                | 38 | 24       | 4            |              | CB01C           | B      | 39 | DS06            | B           | 40 |                 |         |
| 3                | 2  |          |              |              | CB01B           | B      | 43 | TB09            | I           |    |                 |         |
| 4                | 38 | 24       | 4            |              | CB01B           | B      | 39 | DS05            | B           | 40 |                 |         |
| 5                | 2  |          |              |              | K03             | 3C     |    | TB09            | 4           |    |                 |         |
| 6                |    |          |              |              | K03             | 2C     | 48 | M01             | R           | 49 |                 |         |
| 7                | 38 | 24       | 4            |              | CB01A           | B      | 39 | DS04            | B           | 40 |                 |         |
| 8                | 2  |          |              |              | M01             | L      | 49 | TB09            | 5           |    |                 |         |
| 9                | 41 | 16       | 4            |              | CB10B           | B      | 43 | S01             | T           | 43 |                 |         |
| 10               | 41 | 16       | 4            |              | CB10B           | B      | 43 | DS08            | B           | 42 |                 |         |
| 11               | 41 | 16       | 4            |              | DS08            | T      | 42 | CB10A           | B           | 43 |                 |         |
| 12               | 2  |          |              |              | TB09            | 3      |    | K03             | 2C          |    |                 |         |
| 13               | 38 | 24       | 4            |              | CB02            | B      | 39 | TPO1            |             |    |                 |         |
| 14               | 38 | 24       | 4            |              | CB03            | B      | 39 | TPO3            |             |    |                 |         |
| 15               | 38 | 24       | 4            |              | CB05            | B      | 39 | TPO5            |             |    |                 |         |

FORM AA 1669

| CONTROL DATA           |  | TITLE                     | WL           | DOCUMENT NO. | REV. |
|------------------------|--|---------------------------|--------------|--------------|------|
| MINNEAPOLIS, MINNESOTA |  | HARNESS, D.C. POWER PANEL |              | 46819600     | D    |
| CORPORATION            |  | PRODUCT                   | SHEET 1 OF 3 |              |      |
|                        |  | DISK PAK                  |              |              |      |

| REVISION STATUS OF SHEETS |   |   | REVISIONS |          |                      |       |          |       |                    |
|---------------------------|---|---|-----------|----------|----------------------|-------|----------|-------|--------------------|
| 1                         | 2 | 3 | REV.      | ECO      | DESCRIPTION          | DRFT. | DATE     | CHKD. | APPD.              |
| A                         | A | A | A         |          | RELEASED             |       | 10/27/65 |       | <i>[Signature]</i> |
| B                         | B | B | B         | PM 0315  | SEE C.O.             | DK    | 2/28/66  | KW    |                    |
| C                         | C | C | C         | PM 1987  | DWG NO. WAS 41280100 | ZAK   | 10-11-67 | KW    |                    |
| D                         | D | C | D         | PM 1987D | SEE C.O.             |       |          |       |                    |

NOTES:

- A HEXAGON IN THE ACCESS FIND NO. COLUMN INDICATES THAT THE CONDUCTOR IS ONE OF SEVERAL (ALL WITH THE SAME NUMBER IN THE HEXAGON) GOING INTO THE SAME TERMINAL. A NUMBER IN FRONT OF A HEXAGON IS THE TERMINAL FIND NO.
- DETACHED LISTS:
  - PL 46819700
- FOR MECH ASSY SEE #46819700.
- IN THESE COLUMNS (2), UNLESS OTHERWISE SPECIFIED:
  - T INDICATES TOP
  - B INDICATES BOTTOM
  - L INDICATES LEFT
  - R INDICATES RIGHT

|           |  |  |  |    |    |      |         |       |    |      |          |      |     |      |          |
|-----------|--|--|--|----|----|------|---------|-------|----|------|----------|------|-----|------|----------|
| COPIES TO |  |  |  | BY | LM | DATE | 9-22-65 | CHKD. | LM | DATE | 10-26-65 | ENGR | JCP | DATE | 10-27-65 |
|-----------|--|--|--|----|----|------|---------|-------|----|------|----------|------|-----|------|----------|

FORM AA 1672





|   |   |  |         |                      |                          |           |       |       |        |      |     |      |        |
|---|---|--|---------|----------------------|--------------------------|-----------|-------|-------|--------|------|-----|------|--------|
| <b>CONTROL DATA</b>   |   | TITLE<br>D.C. POWER PANEL (MISC. WIRING) |         | WL                   | DOCUMENT NO.<br>46819400 | REV.<br>B |       |       |        |      |     |      |        |
| MINNEAPOLIS, MINNESOTA  |   | PRODUCT<br>DISK PAK                      |         | SHEET 1 OF 2         |                          |           |       |       |        |      |     |      |        |
| REVISION STATUS OF SHEETS   |   |  |         | REVISIONS            |                          |           |       |       |        |      |     |      |        |
| 1   | 2 | REV.                                     | ECO     | DESCRIPTION          | DRFT.                    | DATE      | CHKD. | APPD. |        |      |     |      |        |
| A   | A | A  |         | RELEASED             |                          | 2/8/66    |       | JIB   |        |      |     |      |        |
| B   | B | B  | PM 1987 | DWG NO. WAS 41289700 | ZAK                      | 10-12-67  | KW    |       |        |      |     |      |        |
| NOTES: 1. DETACHED LISTS:<br>A. PL 46819500<br>B. FOR MECH ASSY SEE 46819500<br>2. USING EXISTING LEADS FROM L01 & L02<br>3. TOLERANCES ON WIRE LENGTHS TO BE $\pm \frac{1}{2}$ " |   |  |         |                      |                          |           |       |       |        |      |     |      |        |
| COPIES TO   |   | BY                                       | K.T.    | DATE                 | 1-7-66                   | CHKD.     | LRO   | DATE  | 2-3-66 | ENGR | JCP | DATE | 2-5-66 |

| <b>CONTROL DATA</b>    |          | TITLE<br>WIRE LISTING |              | WL              | DOCUMENT NO.<br>46819400 | REV.<br>B |                  |             |   |                  |         |
|------------------------|----------|-----------------------|--------------|-----------------|--------------------------|-----------|------------------|-------------|---|------------------|---------|
| MINNEAPOLIS, MINNESOTA |          | SHEET 2 OF 2          |              |                 |                          |           |                  |             |   |                  |         |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.)          | COLOR (REF.) | LENGTH (APPROX) | ORIGIN                   |           | ACCESS. FIND NO. | DESTINATION |   | ACCESS. FIND NO. | REMARKS |
| 1                      | 34       | 16                    | 4            | 3               | T01                      | 3         |                  | C06         | L |                  |         |
| 2                      | 34       | 16                    | 4            | 3               | T01                      | 4         |                  | C06         | R |                  |         |
| 3                      |          |                       |              | 7               | L01                      | T         | 2                | TB07        | 2 | 35               |         |
| 4                      |          |                       |              | 7               | L01                      | B         | 2                | TB07        | 3 | 35               |         |
| 5                      |          |                       |              | 7               | L02                      | T         | 2                | TB06        | 3 | 35               |         |
| 6                      |          |                       |              | 7               | L02                      | B         | 2                | TB06        | 4 | 35               |         |

FORM AA 1669





|  |         |                                   |              |      |
|--|---------|-----------------------------------|--------------|------|
| <b>CONTROL DATA</b><br>CORPORATION<br>MINNEAPOLIS, MINNESOTA | TITLE   | HARNESS ASSY, A.C. (POWER SUPPLY) | DOCUMENT NO. | REV. |
|  | PRODUCT | DISK STORAGE DRIVE                | WL 45419600  | D    |

| REVISION STATUS OF SHEETS |   |   | REVISIONS |        |                  |       |         |       |         |
|---------------------------|---|---|-----------|--------|------------------|-------|---------|-------|---------|
| 1                         | 2 | 3 | REV.      | ECO    | DESCRIPTION      | DRFT. | DATE    | CHKD. | APPD.   |
|                           |   |   | A         |        | RELEASED         |       | 4-23-68 |       |         |
|                           |   |   | B         | PM2952 | SEE CO           | EW    | 6-19-68 | TLT   | 6-20-68 |
|                           |   |   | C         | PM4823 | SEE CO           | GV    | 4-15-69 | DCY   | 5-6     |
|                           |   |   | D         | PM5334 | DWG WAS 45480400 | DS    | 6-17-69 | 97    | 6-20-69 |

NOTES:  
1. DETACHED LISTS:  
A. PL 45480900

|           |  |    |     |      |         |       |    |      |         |      |     |      |         |
|-----------|--|----|-----|------|---------|-------|----|------|---------|------|-----|------|---------|
| COPIES TO |  | BY | RWP | DATE | 4/17/68 | CHKD. | DS | DATE | 4/18/68 | ENGR | DWP | DATE | 4/19/68 |
|-----------|--|----|-----|------|---------|-------|----|------|---------|------|-----|------|---------|

|  |       |              |              |      |
|--|-------|--------------|--------------|------|
| <b>CONTROL DATA</b><br>CORPORATION<br>MINNEAPOLIS, MINNESOTA | TITLE | WIRE LISTING | DOCUMENT NO. | REV. |
|  |       |              | WL 45419600  | D    |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION   | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|------------------|---------------|------------------|---------|
| 1                | 1        | 16           | 4            |                 | TB09   | 2                | J04           | 1                | 8       |
| 2                | ↑        | ↑            | ↑            |                 | FLO1   | L                | TB05          | 1                | 6       |
| 3                |          |              |              |                 | FLO1   | L                | J05           | 1                | 8       |
| 4                |          |              |              |                 | TB01   | 1                | K03           | 3A               | 7       |
| 5                |          |              |              |                 | K03    | 3C               | J04           | 3                | 6       |
| 6                |          |              |              |                 | TB01   | 1                | M01           | L                | 5       |
| 7                | ↓        | ↓            |              |                 | TB01   | 1                | TB05          | 2                | 6       |
| 8                | 1        | 16           |              |                 | TB01   | 2                | J05           | 3                | 8       |
| 9                | 11       | 24           |              |                 | TB01   | 2                | DS04          | T                | 12      |
| 10               | 11       | 24           |              |                 | TB01   | 2                | DS05          | T                | 12      |
| 11               | 14       | 24           |              |                 | TB01   | 2                | DS06          | T                | 12      |
| 12               | 1        | 16           |              |                 | CB10B  | B                | FLO1          | L                | 3       |
| 13               | ↑        | ↑            |              |                 | FLO1   | R                | T01           | 1                | ↑       |
| 14               |          |              |              |                 | CB10A  | B                | FLO2          | L                | ↓       |
| 15               |          |              |              |                 | FLO2   | R                | T01           | 2                | 3       |
| 16               |          |              |              |                 | T01    | 6                | TB01          | 3                | 7       |
| 17               |          |              |              |                 | TB01   | 3                | T01           | 6                | 3       |
| 18               | ↓        | ↓            | ↓            |                 | J04    | 4                | SAFETY GROUND |                  | 3       |
| 19               | 1        | 16           | 4            |                 | J04    | 6                | SAFETY GROUND |                  | 3       |

FORM AA 1069

| <b>CONTROL DATA</b><br><small>CORPORATION</small><br>MINNEAPOLIS, MINNESOTA | TITLE        |              | DOCUMENT NO. |                 | REV.   |                  |               |                  |         |
|---|--------------|--------------|--------------|-----------------|--------|------------------|---------------|------------------|---------|
|   | WIRE LISTING |              | WL 45419600  | D               |        |                  |               |                  |         |
|   | SHEET 3 OF   |              |              |                 |        |                  |               |                  |         |
| CONDUCTOR IDENT.  | FIND NO.     | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION   | ACCESS. FIND NO. | REMARKS |
| 20  | 1            | 16           | 4            |                 | J05    | 2                | SAFETY GROUND | 3                |         |
| 21  | 1            | 16           | 4            |                 | CB01C  | B                | K03           | 4A               | 7       |
| 22  | 1            | 16           | 4            |                 | CB01A  | B                | K03           | 2A               | 7       |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
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|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |
|   |              |              |              |                 |        |                  |               |                  |         |

FORM AA 1619

| <b>CONTROL DATA</b><br><small>CORPORATION</small><br>MINNEAPOLIS, MINNESOTA | TITLE                            |  | DOCUMENT NO. |          | REV.  |          |
|---|----------------------------------|--|--------------|----------|-------|----------|
|   | HARNES ASSEMBLY, DC POWER SUPPLY |  | WL 45863000  | H        |       |          |
|   | SHEET 1 OF 12                    |  |              |          |       |          |
| REVISION STATUS OF SHEETS   |                                  |  | REVISIONS    |          |       |          |
| REV.  | ECO                              | DESCRIPTION  | DRFT.        | DATE     | CHKD. | APPD.    |
| A   |                                  | RELEASED   |              | 10-31-68 |       |          |
| B   | PM4200                           | SEE CO   | TM           | 12-9-68  | DCY   | 12-18-68 |
| C   | PM4539                           | SEE CO   | CC           | 2-4-69   | DCY   | 3-4-9    |
| D   | PM4646                           | SEE CO   | CC           | 2-21-69  | DCY   | 3-4-9    |
| E   | PM4823                           | SEE CO   | GV           | 4-17-69  | DCY   | 5-8      |
| F   | PM4539B                          | SEE CO   | GV           | 4-17-69  | DCY   | 5-8      |
| G   | PM5038                           | SEE CO   | HK           | 5-23-69  | 97    | 5-26-9   |
| H   | PM5296                           | DRAWING NO WAS 45448100 <sup>SN</sup> <sub>10200</sub> | DC           | 7-29-69  | 97    | 8-5-69   |
|   |                                  |  |              |          |       |          |
|   |                                  |  |              |          |       |          |
|   |                                  |  |              |          |       |          |
|   |                                  |  |              |          |       |          |
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|   |                                  |  |              |          |       |          |
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|   |                                  |  |              |          |       |          |
|   |                                  |  |              |          |       |          |

**NOTES:**

1. A HEXAGON IN THE ACCESS FIND NO. COLUMN INDICATES THAT THE CONDUCTOR IS ONE OF SEVERAL (ALL WITH THE SAME NUMBER IN THE HEXAGON) GOING INTO THE SAME TERMINAL. A NUMBER IN FRONT OF A HEXAGON IS THE TERMINAL FIND NO.

2. DETACHED LISTS:  
A. PL 46018200

|           |    |    |                 |       |     |                 |      |    |                |
|-----------|----|----|-----------------|-------|-----|-----------------|------|----|----------------|
| COPIES TO | BY | EP | DATE<br>9/12/68 | CHKD. | RSP | DATE<br>11-1-68 | ENGR | ED | DATE<br>1/2/69 |
|-----------|----|----|-----------------|-------|-----|-----------------|------|----|----------------|

FORM AA 1672

|   |         |                                  |              |              |      |   |
|---|---------|----------------------------------|--------------|--------------|------|---|
| <b>CONTROL DATA</b><br>MINNEAPOLIS, MINNESOTA | TITLE   | HARNES ASSY, A.C. (POWER SUPPLY) | DOCUMENT NO. | 70537900     | REV. | E |
|   | PRODUCT | DISK STORAGE DRIVE               |              | WL           |      |   |
|   |         |                                  |              | SHEET 1 OF 3 |      |   |

| REVISION STATUS OF SHEETS |   |   | REVISIONS |        |                     |       |          |       |         |
|---------------------------|---|---|-----------|--------|---------------------|-------|----------|-------|---------|
| 1                         | 2 | 3 | REV.      | ECO    | DESCRIPTION         | DRFT. | DATE     | CHKD. | APPD.   |
|                           |   |   | A         |        | RELEASED            |       | 4-23-68  |       |         |
|                           |   |   | B         | PM2952 | SEE CO              | EW    | 5-19-68  | TLT   | 6-20-68 |
|                           |   |   | C         | PM4823 | SEE CO              | GV    | 4-15-69  | SCY   | 5-6     |
|                           |   |   | D         | PM5334 | DWG WAS 45480400    | DS    | 5-17-69  | 97    | 6-20-69 |
|                           |   |   | E         | 12225  | DWG NO WAS 45419600 | DC    | 10-28-69 | TLT   | 11-3-69 |

NOTES:

1. ASSOCIATED DOCUMENTS:  
A. PL 70537800.

|           |  |    |            |      |         |       |           |         |      |            |      |         |
|-----------|--|----|------------|------|---------|-------|-----------|---------|------|------------|------|---------|
| COPIES TO |  | BY | <i>RSP</i> | DATE | 4/17/68 | CHKD. | <i>AF</i> | 4/18/68 | ENGR | <i>TRP</i> | DATE | 4/18/68 |
|-----------|--|----|------------|------|---------|-------|-----------|---------|------|------------|------|---------|

FORM AA 1672

|   |       |              |              |          |      |            |
|---|-------|--------------|--------------|----------|------|------------|
| <b>CONTROL DATA</b><br>MINNEAPOLIS, MINNESOTA | TITLE | WIRE LISTING | DOCUMENT NO. | 70537900 | REV. | E          |
|   |       |              | WL           |          |      |            |
|   |       |              |              |          |      | SHEET 2 OF |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION   | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|------------------|---------------|------------------|---------|
| 1                | 1        | 16           | 4            |                 | TB09   | 2                | J04           | 1                | 8       |
| 2                | ↑        | ↑            | ↑            |                 | CB01   | B                | TB05          | 1                | 6       |
| 3                |          |              |              |                 | TB05   | 1                | J05           | 1                | 8       |
| 4                |          |              |              |                 | TB01   | 1                | K03           | 3A               | 7       |
| 5                |          |              |              |                 | K03    | 3C               | J04           | 3                | 8       |
| 6                |          |              |              |                 | TB01   | 1                | M01           | L                | 5       |
| 7                | ↓        | ↓            |              |                 | TB01   | 1                | TB05          | 2                | 6       |
| 8                | 1        | 16           |              |                 | TB01   | 2                | J05           | 3                | 8       |
| 9                | 11       | 24           |              |                 | TB01   | 2                | DS04          | T                | 12      |
| 10               | 11       | 24           |              |                 | TB01   | 2                | DS05          | T                | 12      |
| 11               | 11       | 24           |              |                 | TB01   | 2                | DS06          | T                | 12      |
| 12               | 1        | 16           |              |                 | S01    | B                | FL01          | L                | 3       |
| 13               | ↑        | ↑            |              |                 | FL01   | R                | T01           | 1                | 3       |
| 14               |          |              |              |                 | CB10A  | B                | FL02          | L                | 3       |
| 15               |          |              |              |                 | FL02   | R                | T01           | 2                | 3       |
| 16               |          |              |              |                 | T01    | 6                | TB01          | 3                | 7       |
| 17               |          |              |              |                 | TB01   | 3                | T01           | 6                | 3       |
| 18               | ↓        | ↓            | ↓            |                 | J04    | 4                | SAFETY GROUND | 3                |         |
| 19               | 1        | 16           | 4            |                 | J04    | 6                | SAFETY GROUND | 3                |         |

| <b>CONTROL DATA</b>    |          |              |              |                 | TITLE<br><b>WIRE LISTING</b> |   |                  |               |    | DOCUMENT NO.<br><b>WL 70537900</b> |         | REV.<br><b>E</b> |
|------------------------|----------|--------------|--------------|-----------------|------------------------------|---|------------------|---------------|----|------------------------------------|---------|------------------|
| MINNEAPOLIS, MINNESOTA |          |              |              |                 | SHEET 3 OF                   |   |                  |               |    |                                    |         |                  |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN                       |   | ACCESS. FIND NO. | DESTINATION   |    | ACCESS. FIND NO.                   | REMARKS |                  |
| 20                     | 1        | 16           | 4            |                 | J05                          | 2 | 8                | SAFETY GROUND |    | 3                                  |         |                  |
| 21                     | 1        | 16           | 4            |                 | CB01C                        | B | 3                | K03           | 4A | 7                                  |         |                  |
| 22                     | 1        | 16           | 4            |                 | CB01A                        | B | 3                | K03           | 2A | 7                                  |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |
|                        |          |              |              |                 |                              |   |                  |               |    |                                    |         |                  |

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| <b>CONTROL DATA</b>           |          |  |       |          | TITLE<br>HARNES ASSEMBLY, DC POWER SUPPLY |          |  |  |  | DOCUMENT NO.<br><b>WL 70539600</b> |  | REV.<br><b>J</b> |
|-------------------------------|----------|--|-------|----------|---|----------|--|--|--|------------------------------------|--|------------------|
| MINNEAPOLIS, MINNESOTA        |          |  |       |          | SHEET 1 OF 12                             |          |  |  |  |                                    |  |                  |
| PRODUCT<br>DISK STORAGE DRIVE |          |  |       |          |   |          |  |  |  |                                    |  |                  |
| REVISION STATUS OF SHEETS     |          |  |       |          | REVISIONS                                 |          |  |  |  |                                    |  |                  |
| REV.                          | ECO      | DESCRIPTION                                  | DRFT. | DATE     | CHKD.                                     | APPD.    |  |  |  |                                    |  |                  |
| A                             |          | RELEASED                                     |       | 10-31-68 |   |          |  |  |  |                                    |  |                  |
| B                             | PM 4200  | SEE CO                                       | TM    | 12-9-68  | DCJ                                       | 12-18-68 |  |  |  |                                    |  |                  |
| C                             | PM 4539  | SEE CO                                       | CC    | 2-4-69   | DCJ                                       | 3-4-69   |  |  |  |                                    |  |                  |
| D                             | PM 4646  | SEE CO                                       | CC    | 2-21-69  | DCJ                                       | 3-4-69   |  |  |  |                                    |  |                  |
| E                             | PM 4823  | SEE CO                                       | GV    | 4-17-69  | DCJ                                       | 5-8      |  |  |  |                                    |  |                  |
| F                             | PM 4539B | SEE CO                                       | GV    | 4-17-69  | DCJ                                       | 5-8      |  |  |  |                                    |  |                  |
| G                             | PM 5038  | SEE CO                                       | HK    | 5-23-69  | 97  | 5-26-69  |  |  |  |                                    |  |                  |
| H                             | PM 5296  | DRAWING NO WAS 45448100 <sup>SN 10,000</sup> | DC    | 7-29-69  | 97  | 8-5-69   |  |  |  |                                    |  |                  |
| J                             | PE12234  | DWG WAS 45863000 <sup>SN 13,000</sup>        | 7PC   | 10-13-69 | 97  | 10-15-69 |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |
|                               |          |  |       |          |   |          |  |  |  |                                    |  |                  |

NOTES:

1. A HEXAGON IN THE ACCESS FIND NO. COLUMN INDICATES THAT THE CONDUCTOR IS ONE OF SEVERAL (ALL WITH THE SAME NUMBER IN THE HEXAGON) GOING INTO THE SAME TERMINAL. A NUMBER IN FRONT OF A HEXAGON IS THE TERMINAL FIND NO.

2. DETACHED LISTS:  
A. PL 70539500.

|           |  |  |  |  |    |    |      |         |       |     |      |         |      |     |      |          |
|-----------|--|--|--|--|----|----|------|---------|-------|-----|------|---------|------|-----|------|----------|
| COPIES TO |  |  |  |  | BY | BP | DATE | 9/12/68 | CHKD. | RSP | DATE | 11-1-68 | ENGR | 1el | DATE | 10/20/69 |
|-----------|--|--|--|--|----|----|------|---------|-------|-----|------|---------|------|-----|------|----------|

FORM AA 1672

|                        |       |              |              |      |
|------------------------|-------|--------------|--------------|------|
| MINNEAPOLIS, MINNESOTA | TITLE | WIRE LISTING | DOCUMENT NO. | REV. |
|                        |       |              | 70539600     | J    |
|                        |       |              | SHEET 2 OF   |      |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|------------------|-------------|------------------|---------|
| 1                | 15       | 16           | 4            |                 | C11    | +                | C10         | +                | 10(1)   |
| 2                | ↑        | ↑            | ↑            |                 | C10    | +                | C09         | +                | 10(2)   |
| 3                |          |              |              |                 | C09    | +                | TB07        | 5                | 18      |
| 4                |          |              |              |                 | R17    | R                | TB02        | 2                | 18      |
| 5                |          |              |              |                 | TB02   | 2                | Q02         | B                | 5       |
| 6                |          |              |              |                 | Q02    | C                | TB02        | 14               | 18      |
| 7                |          |              |              |                 | TB02   | 14               | Q05         | B                | 5       |
| 8                |          |              |              |                 | Q05    | C                | CB07A       | B                | 4       |
| 9                |          |              |              |                 | CB07B  | T                | R20         | R                | 2       |
| 10               |          |              |              |                 | R23    | R                | CB07A       | T                | 4       |
| 11               |          |              |              |                 | CB07B  | B                | Q03         | C                | 5       |
| 12               | ↓        | ↓            | ↓            |                 | Q03    | B                | TB02        | 14               | 18      |
| 13               | 15       | 16           | 14           |                 | TB02   | 14               | R17         | L                | 2       |
| 14               |          |              |              |                 |        |                  |             |                  |         |
| 15               | 15       | 16           | 14           |                 | C04    | +                | CB03        | T                | 10(3)   |
| 16               | ↑        | ↑            | ↑            |                 | CB03   | T                | K02         | 3A               | 18      |
| 17               |          |              |              |                 | K02    | 3C               | TB06        | 4                | 18      |
| 18               | ↓        | ↓            | ↓            |                 | TB07   | 3                | K02         | 4C               | 18      |
| 19               | 15       | 16           | 4            |                 | K02    | 4A               | CB02        | T                | 10(4)   |

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|                        |       |              |              |      |
|------------------------|-------|--------------|--------------|------|
| MINNEAPOLIS, MINNESOTA | TITLE | WIRE LISTING | DOCUMENT NO. | REV. |
|                        |       |              | 70539600     | J    |
|                        |       |              | SHEET 3 OF   |      |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|------------------|-------------|------------------|---------|
| 20               | 15       | 16           | 4            |                 | CB02   | T                | C02         | -                | 4       |
| 21               | ↑        | ↑            | ↑            |                 | T01    | 6                | C09         | -                | 10(5)   |
| 22               |          |              |              |                 | C09    | -                | C10         | -                | 10(7)   |
| 23               |          |              |              |                 | C10    | -                | C09         | -                | (5)     |
| 24               |          |              |              |                 | C09    | -                | T01         | 6                | (6)     |
| 25               |          |              |              |                 | C04    | -                | TB02        | 10               | 18      |
| 26               |          |              |              |                 | TB02   | 10               | T02         | 4                | 11(8)   |
| 27               |          |              |              |                 | T02    | 4                | C07         | -                | 4       |
| 28               |          |              |              |                 | C07    | +                | CB05        | T                | 4       |
| 29               |          |              |              |                 | CB05   | B                | K05B        | 2                | 12-19   |
| 30               |          |              |              |                 | K05B   | 8                | J03         | K                | 6       |
| 31               |          |              |              |                 | J07    | U                | TB02        | 5                | 18      |
| 32               |          |              |              |                 | TB02   | 5                | J03         | H                | 6       |
| 33               |          |              |              |                 | J03    | F                | TB02        | 5                | 18      |
| 34               |          |              |              |                 | TB02   | 3                | C09         | +                | (2)     |
| 35               |          |              |              |                 | C07    | +                | CR03        | R                | 5       |
| 36               |          |              |              |                 | CR03   | B                | T02         | 5                | 4       |
| 37               | ↓        | ↓            | ↓            |                 | T02    | 2                | T01         | 9                | 4       |
| 38               | 15       | 16           | 4            |                 | T01    | 8                | T02         | 1                | 4       |

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| MINNEAPOLIS, MINNESOTA |          | TITLE<br>WIRE LISTING |              |                 |        |      |                  |             | WL   |                  | DOCUMENT NO.<br>70539600 | REV.<br>J  |  |
|------------------------|----------|-----------------------|--------------|-----------------|--------|------|------------------|-------------|------|------------------|--------------------------|------------|--|
| MINNEAPOLIS, MINNESOTA |          |                       |              |                 |        |      |                  |             |      |                  |                          | SHEET 4 OF |  |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.)          | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |      | ACCESS. FIND NO. | DESTINATION |      | ACCESS. FIND NO. | REMARKS                  |            |  |
| 39                     | 15       | 16                    | 4            |                 | T02    | 3    | 4                | CR03        | T    | 5                |                          |            |  |
| 40                     | ↑        | ↑                     | ↑            |                 | TB02   | 1    | 18               | Z01         | TERM | 17               |                          |            |  |
| 41                     |          |                       |              |                 | Z01    | STUD | 4                | CB04        | T    | 11 (11)          |                          |            |  |
| 42                     |          |                       |              |                 | TP04   |      | 17               | K05B        | 3    | 12               |                          |            |  |
| 43                     |          |                       |              |                 | TB02   | 15   | 18               | R23         | L    | 2                |                          |            |  |
| 44                     |          |                       |              |                 | R20    | L    | 2                | TB02        | 16   | 18               |                          |            |  |
| 45                     |          |                       |              |                 | TB02   | 16   | 18               | Q04         | B    | 5                |                          |            |  |
| 46                     |          |                       |              |                 | Q06    | B    | 5                | TB02        | 15   | 18               |                          |            |  |
| 47                     |          |                       |              |                 | K05B   | 9    | 12,19            | TB02        | 1    | (19)             |                          |            |  |
| 48                     |          |                       |              |                 | TB02   | 1    | (18)             | Q01         | B    | 5                |                          |            |  |
| 49                     |          |                       |              |                 | Q01    | C    | 5                | R13         | T    | 2                |                          |            |  |
| 50                     |          |                       |              |                 | R13    | B    | 2                | CB04        | T    | (11)             |                          |            |  |
| 51                     |          |                       |              |                 | CB02   | B    | 11 (12)          | J03         | D    | 6                |                          |            |  |
| 52                     |          |                       |              |                 | J03    | E    | 6                | CB02        | B    | (12)             |                          |            |  |
| 53                     |          |                       |              |                 | CB03   | B    | 11 (13)          | J03         | B    | 6                |                          |            |  |
| 54                     |          |                       |              |                 | J03    | J    | 6                | K04         | 4    | 12               |                          |            |  |
| 55                     |          |                       |              |                 | TB02   | 2    | 18               | Q07         | B    | 5                |                          |            |  |
| 56                     | ↓        | ↓                     | ↓            |                 | R18    | R    | 2                | CB04        | T    | (11)             |                          |            |  |
| 57                     | 15       | 16                    | 4            |                 | CB03   | B    | (13)             | J03         | C    | 6                |                          |            |  |

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| MINNEAPOLIS, MINNESOTA |          | TITLE<br>WIRE LISTING |              |                 |        |    |                  |             | WL |                  | DOCUMENT NO.<br>70539600 | REV.<br>J  |  |
|------------------------|----------|-----------------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|--------------------------|------------|--|
| MINNEAPOLIS, MINNESOTA |          |                       |              |                 |        |    |                  |             |    |                  |                          | SHEET 5 OF |  |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.)          | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS                  |            |  |
| 58                     | 16       | 20                    | 4            |                 | C11    | -  | 4                | TB03        | 2  | 9-26             |                          |            |  |
| 59                     | ↑        | ↑                     | ↑            |                 | TB03   | 5  | 9-26             | C07         | +  | (9)              |                          |            |  |
| 60                     |          |                       |              |                 | J03    | NN | 7                | K02         | 2A | 3                |                          |            |  |
| 61                     |          |                       |              |                 | K02    | 2C | 3                | TB03        | 28 | 9-26             |                          |            |  |
| 62                     |          |                       |              |                 | TB02   | 13 | 3                | K05B        | 13 | 12-19            |                          |            |  |
| 63                     |          |                       |              |                 | K05B   | 12 | 12-19            | K03         | 1C | 18, (20)         |                          |            |  |
| 64                     |          |                       |              |                 | TB02   | 2  | 3                | K05A        | 12 | 12-19            |                          |            |  |
| 65                     |          |                       |              |                 | K05A   | 13 | 12-19            | TB03        | 26 | 9                |                          |            |  |
| 66                     | ↓        | ↓                     | ↓            |                 | TB02   | 12 | 3                | K01         | 8  | 12-19            |                          |            |  |
| 67                     | 16       | 20                    | 4            |                 | K01    | 9  | 12-19            | J07         | K  | 7                |                          |            |  |
| 68                     |          |                       |              |                 |        |    |                  |             |    |                  |                          |            |  |
| 69                     | 16       | 20                    | 4            |                 | J07    | J  | 7                | CB02        | B  | (12)             |                          |            |  |
| 70                     | ↑        | ↑                     | ↑            |                 | DS01   | B  | 2                | TB02        | 7  | 3                |                          |            |  |
| 71                     |          |                       |              |                 | TB02   | 7  | 3                | DS07        | B  | 2                |                          |            |  |
| 72                     |          |                       |              |                 | DS07   | T  | 2                | TB03        | 8  | 9-26             |                          |            |  |
| 73                     |          |                       |              |                 | TB03   | 7  | 9-26             | CB05        | B  | (10)             |                          |            |  |
| 74                     |          |                       |              |                 | DS03   | B  | 2                | TB02        | 6  | 3                |                          |            |  |
| 75                     | ↓        | ↓                     | ↓            |                 | TB02   | 6  | 3                | DS02        | B  | 2                |                          |            |  |
| 76                     | 16       | 20                    | 4            |                 | CB04   | B  | 4                | J07         | S  | 7                |                          |            |  |

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| CONTROL DATA           |          | TITLE        |              |                 |        |    |                  |             |    | WL               | DOCUMENT NO. | REV. |
|------------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|--------------|------|
| MINNEAPOLIS, MINNESOTA |          | WIRE LISTING |              |                 |        |    |                  |             |    |                  | 70539600     | J    |
| SHEET 6 OF             |          |              |              |                 |        |    |                  |             |    |                  |              |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS      |      |
| 77                     | 16       | 20           | 4            |                 | J07    | T  | 7                | TB02        | 5  | 3                |              |      |
| 78                     | 16       | 20           | 4            |                 | TB02   | 3  | 3                | TB03        | 1  | 9-26             |              |      |
| 79                     |          |              |              |                 |        |    |                  |             |    |                  |              |      |
| 80                     |          |              |              |                 |        |    |                  |             |    |                  |              |      |
| 81                     | 16       | 20           | 4            |                 | TB06   | 4  | 9-26             | J07         | F  | 7                |              |      |
| 82                     | ↑        | ↑            | ↑            |                 | J07    | E  | 7                | TB02        | 12 | 3                |              |      |
| 83                     |          |              |              |                 | K05A   | 1  | 12-19            | TB02        | 8  | 3                |              |      |
| 84                     |          |              |              |                 | TB02   | 1  | 3                | K04         | 8  | 12-19            |              |      |
| 85                     |          |              |              |                 | K04    | 13 | 12-19            | TB03        | 64 | 9-26             |              |      |
| 86                     |          |              |              |                 | TB03   | 64 | 9-26             | K01         | 3  | 12-19            |              |      |
| 87                     |          |              |              |                 | K01    | 7  | 12-19            | TB03        | 16 | 9-26             |              |      |
| 88                     |          |              |              |                 | TB03   | 16 | 9-26             | K02         | L1 | 18               |              |      |
| 89                     |          |              |              |                 | TB02   | 13 | 3                | K06         | 12 | 12-19            |              |      |
| 90                     |          |              |              |                 | TB03   | 63 | 9-26             | K04         | 12 | 12-19            |              |      |
| 91                     |          |              |              |                 | J03    | FF | 7                | TB03        | 66 | 9-26             |              |      |
| 92                     |          |              |              |                 | TB02   | 3  | 3                | TP04        | —  | 17               |              |      |
| 93                     | ∇        | ∇            | ∇            |                 | TB02   | 3  | 3                | K04         | 2  | 12-19            |              |      |
| 94                     | 16       | 20           | 4            |                 | K04    | 1  | 12-19            | TB02        | 7  | 3                |              |      |
| 95                     |          |              |              |                 |        |    |                  |             |    |                  |              |      |

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| CONTROL DATA           |          | TITLE        |              |                 |        |    |                  |             |    | WL               | DOCUMENT NO. | REV. |
|------------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|--------------|------|
| MINNEAPOLIS, MINNESOTA |          | WIRE LISTING |              |                 |        |    |                  |             |    |                  | 70539600     | J    |
| SHEET 7 OF             |          |              |              |                 |        |    |                  |             |    |                  |              |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS      |      |
| 96                     | 16       | 20           | 4            |                 | K05A   | 3  | 12-19            | J07         | D  | 7                |              |      |
| 97                     | ↑        | ↑            | ↑            |                 | J07    | C  | 7                | TB02        | 11 | 3                |              |      |
| 98                     |          |              |              |                 | TB02   | 11 | 3                | J03         | Z  | 7                |              |      |
| 99                     | ∇        | ∇            | ∇            |                 | J03    | T  | 7                | F01         | B  | 17               |              |      |
| 100                    | 16       | 20           | 4            |                 | TB02   | 6  | 3                | J07         | L  | 7                |              |      |
| 101                    |          |              |              |                 |        |    |                  |             |    |                  |              |      |
| 102                    |          |              |              |                 |        |    |                  |             |    |                  |              |      |
| 103                    | 16       | 20           | 4            |                 | TB03   | 13 | 9-26             | J06         | 4  | 25               |              |      |
| 104                    | ↑        | ↑            | ↑            |                 | J06    | 3  | 25               | TB03        | 14 | 9                |              |      |
| 105                    | ∇        | ∇            | ∇            |                 | TB03   | 14 | 9-26             | K05B        | 4  | 12-19            |              |      |
| 106                    | 16       | 20           | 4            |                 | TB02   | 8  | 3                | K06         | 3  | 12-19            |              |      |
| 107                    |          |              |              |                 |        |    |                  |             | 1  |                  |              |      |
| 108                    | 16       | 20           | 4            |                 | TB02   | 16 | 3                | J07         | B  | 7                |              |      |
| 109                    | ↑        | ↑            | ↑            |                 | J07    | A  | 7                | TB02        | 15 | 3                |              |      |
| 110                    |          |              |              |                 | TB02   | 12 | 3                | J03         | Y  | 7                |              |      |
| 111                    |          |              |              |                 | TB02   | 6  | 3                | TB03        | 17 | 9-26             |              |      |
| 112                    |          |              |              |                 | TB03   | 17 | 9-26             | K01         | 12 | 12-19            |              |      |
| 113                    | ∇        | ∇            | ∇            |                 | K01    | 13 | 12-19            | K02         | 1A | 18 (16)          |              |      |
| 114                    | 16       | 20           | 4            |                 | K02    | 1A | (16)             | TB03        | 18 | 9-26             |              |      |

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| MINNEAPOLIS, MINNESOTA |          | TITLE        |              |                 |        |    |                  |             |    |                  |         | DOCUMENT NO. |            | REV. |
|------------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|---------|--------------|------------|------|
| WIRE LISTING           |          |              |              |                 |        |    |                  |             |    |                  |         | 70539600     |            | J    |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                  |             |    |                  |         |              | SHEET 8 OF |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |              |            |      |
| 115                    | 16       | 20           | 4            |                 | TB03   | 18 | 9-26             | J03         | V  | 7                |         |              |            |      |
| 116                    | 16       | 20           | 4            |                 | J03    | U  | 7                | K02         | 1C | 3                |         |              |            |      |
| 117                    |          |              |              |                 |        |    |                  |             |    |                  |         |              |            |      |
| 118                    | 16       | 20           | 4            |                 | J03    | BB | 7                | K01         | 2  | 12-19            |         |              |            |      |
| 119                    | ▲        | ▲            | ▲            |                 | K01    | 1  | 12-19            | TB02        | 9  | 3                |         |              |            |      |
| 120                    | ▼        | ▼            | ▼            |                 | K06    | 6  | 12-19            | K03         | L2 | 18(23)           |         |              |            |      |
| 121                    | 16       | 20           | 4            |                 | K03    | 11 | 3                | J03         | HM | 7                |         |              |            |      |
| 122                    |          |              |              |                 |        |    |                  |             |    |                  |         |              |            |      |
| 123                    | 16       | 20           | 4            |                 | TB03   | 53 | 9-26             | TB03        | 55 | 9-26             |         |              |            |      |
| 124                    | ▲        | ▲            | ▲            |                 | TB03   | 54 | 9-26             | Q06         | C  | 5                |         |              |            |      |
| 125                    |          |              |              |                 | Q07    | T  | 5                | TB03        | 52 | 9-26             |         |              |            |      |
| 126                    |          |              |              |                 | TB03   | 54 | 9-26             | Q04         | C  | 5                |         |              |            |      |
| 127                    |          |              |              |                 | Q04    | T  | 5                | TB03        | 46 | 9-26             |         |              |            |      |
| 128                    |          |              |              |                 | TB03   | 46 | 9-26             | TB03        | 33 | 9-26             |         |              |            |      |
| 129                    |          |              |              |                 | TB03   | 33 | 9-26             | J03         | R  | 7                |         |              |            |      |
| 130                    |          |              |              |                 | J03    | P  | 7                | TB03        | 35 | 9-26             |         |              |            |      |
| 131                    |          |              |              |                 | TB03   | 34 | 9-26             | TB03        | 48 | 9-26             |         |              |            |      |
| 132                    | ▼        | ▼            | ▼            |                 | TB03   | 48 | 9-26             | Q05         | T  | 5                |         |              |            |      |
| 133                    | 16       | 20           | 4            |                 | Q06    | T  | 5                | TB03        | 50 | 9-26             |         |              |            |      |

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| MINNEAPOLIS, MINNESOTA |          | TITLE        |              |                 |        |    |                  |             |    |                  |         | DOCUMENT NO. |            | REV. |
|------------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|---------|--------------|------------|------|
| WIRE LISTING           |          |              |              |                 |        |    |                  |             |    |                  |         | 70539600     |            | J    |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                  |             |    |                  |         |              | SHEET 9 OF |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |              |            |      |
| 134                    | 16       | 20           | 4            |                 | TB03   | 51 | 9-26             | TB03        | 49 | 9-26             |         |              |            |      |
| 135                    | ▲        | ▲            | ▲            |                 | TB03   | 49 | 9-26             | TB03        | 47 | 9-26             |         |              |            |      |
| 136                    |          |              |              |                 | TB03   | 47 | 9-26             | TB03        | 45 | 9-26             |         |              |            |      |
| 137                    |          |              |              |                 | TB03   | 45 | 9-26             | TB03        | 43 | 9-26             |         |              |            |      |
| 138                    |          |              |              |                 | TB03   | 43 | 9-26             | TB03        | 41 | 9-26             |         |              |            |      |
| 139                    | ▼        | ▼            | ▼            |                 | TB03   | 41 | 9-26             | TB03        | 39 | 9-26             |         |              |            |      |
| 140                    | 16       | 20           | 4            |                 | TB03   | 39 | 9-26             | TB03        | 6  | 9-26             |         |              |            |      |
| 141                    | 16       | 20           | 4            |                 | TB03   | 3  | 9-26             | TB07        | 5  | 3                |         |              |            |      |
| 142                    | 16       | 20           | 4            |                 | TB02   | 10 | 3                | TP02        | —  | 17               |         |              |            |      |
| 143                    |          |              |              |                 |        |    |                  |             |    |                  |         |              |            |      |
| 144                    |          |              |              |                 |        |    |                  |             |    |                  |         |              |            |      |
| 145                    | 16       | 20           | 4            |                 | J07    | P  | 7                | TB02        | 10 | 3                |         |              |            |      |
| 146                    |          |              |              |                 |        |    |                  |             |    |                  |         |              |            |      |
| 147                    |          |              |              |                 | J06    | 1  | 25               | K04         | 5  | 12-19            |         |              |            |      |
| 148                    | 16       | 20           | 4            |                 | TB03   | 53 | 9-26             | TB03        | 2  | 9-26             |         |              |            |      |
| 149                    | 16       | 20           | 4            |                 |        |    |                  |             |    | 12-19            |         |              |            |      |
| 150                    |          |              |              |                 |        |    |                  |             |    |                  |         |              |            |      |
| 151                    | 16       | 20           | 4            |                 | TB03   | 63 | 9-26             | K03         | L2 | (23)             |         |              |            |      |
| 152                    | 16       | 20           | 4            |                 | K05A   | 9  | 12-19            | TB02        | 11 | 3                |         |              |            |      |

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|                        |  |       |  |              |  |    |                          |           |
|------------------------|--|-------|--|--------------|--|----|--------------------------|-----------|
| MINNEAPOLIS, MINNESOTA |  | TITLE |  | WIRE LISTING |  | WL | DOCUMENT NO.<br>70539600 | REV.<br>J |
| SHEET 10 OF            |  |       |  |              |  |    |                          |           |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|---------|
| 154              | 16       | 20           | 4            |                 | K05A   | 8  | 12-19            | J07         | R  | 7                |         |
| 155              | ↑        | ↑            | ↑            |                 | J03    | S  | 7                | TB03        | 37 | 9-26             |         |
| 156              |          |              |              |                 | TB03   | 37 | 9-26             | TB03        | 50 | 9-26             |         |
| 157              |          |              |              |                 | TB03   | 52 | 9-26             | TB03        | 32 | 9-26             |         |
| 158              |          |              |              |                 | TB03   | 31 | 9-26             | J03         | N  | 7                |         |
| 159              |          |              |              |                 | J03    | M  | 7                | TB03        | 29 | 9-26             |         |
| 160              |          |              |              |                 | TB03   | 30 | 9-26             | TB03        | 40 | 9-26             |         |
| 161              |          |              |              |                 | TB03   | 40 | 9-26             | Q01         | T  | 5                |         |
| 162              |          |              |              |                 | Q02    | T  | 5                | TB03        | 42 | 9-26             |         |
| 163              |          |              |              |                 | TB03   | 42 | 9-26             | TB03        | 36 | 9-26             |         |
| 164              |          |              |              |                 | TB03   | 38 | 9-26             | TB03        | 44 | 9-26             |         |
| 165              |          |              |              |                 | TB03   | 44 | 9-26             | Q03         | T  | 5                |         |
| 166              |          |              |              |                 | J03    | W  | 7                | K05A        | 4  | 12-19            |         |
| 167              |          |              |              |                 | J07    | H  | 7                | CB03        | B  | 13               |         |
| 168              |          |              |              |                 | J06    | 5  | 25               | TB03        | 59 | 9-26             |         |
| 169              |          |              |              |                 | TB03   | 59 | 9-26             | TB02        | 9  | 3                |         |
| 170              | ↓        | ↓            | ↓            |                 | J06    | 6  | 8                | TB03        | 60 | 9-26             |         |
| 171              | 16       | 20           | 4            |                 | TB03   | 60 | 9-26             | FO2         | B  | 7                |         |

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|                        |  |       |  |              |  |    |                          |           |
|------------------------|--|-------|--|--------------|--|----|--------------------------|-----------|
| MINNEAPOLIS, MINNESOTA |  | TITLE |  | WIRE LISTING |  | WL | DOCUMENT NO.<br>70539600 | REV.<br>J |
| SHEET 11 OF            |  |       |  |              |  |    |                          |           |

| CONDUCTOR IDENT. | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS. FIND NO. | DESTINATION |    | ACCESS. FIND NO. | REMARKS |
|------------------|----------|--------------|--------------|-----------------|--------|----|------------------|-------------|----|------------------|---------|
| 172              | 16       | 20           | 4            |                 | TB02   | 8  | 3                | K04         | 3  | 12, 19           |         |
| 173              | 16       | 20           | 4            |                 | K04    | 9  | 12-19            | J03         | LL | 7                |         |
| 174              | 15       | 16           | 4            |                 | Q07    | C  | 5                | R18         | L  | 2                |         |
| 175              | 16       | 20           | ↑            |                 | K02    | L2 | 3                | S02         | D  | 17               |         |
| 176              | 16       | 20           |              |                 | S02    | B  | 17               | S03         | B  | 17               |         |
| 177              | 16       | 20           |              |                 | S03    | D  | 17               | TB02        | 4  | 3                |         |
| 178              | 16       | 20           |              |                 | TB03   | 15 | 9-26             | S02         | D  | 17               |         |
| 179              | 16       | 20           |              |                 | TB03   | 25 | 9-26             | TB02        | 1  | 19               |         |
| 180              | 15       | 16           |              |                 | T01    | 08 | 4                | TB06        | 5  | 3                |         |
| 181              | 15       | 16           |              |                 | T01    | 09 | 4                | TB06        | 1  | 3                |         |
| 182              | 16       | 20           | ↓            |                 | FO1    | A  | 17               | TB02        | 4  | 3                |         |
| 183              | 14       | 20           | 4            |                 | FO2    | A  | 17               | TB02        | 1  | 3                |         |
| 184              | 16       | 20           | 4            |                 | K05B   | 7  | 12, 19           | K02         | L1 | 20               |         |
| 185              | ↑        | ↑            | ↑            |                 | K06    | 13 | 12-19            | TB03        | 27 | 9-26             |         |
| 186              | ↑        | ↑            | ↑            |                 | K03    | 1B | 3                | TB03        | 27 | 9-26             |         |
| 187              | ↑        | ↑            | ↑            |                 | K06    | 8  | 12-19            | K03         | 4B | 3                |         |
| 188              | ↓        | ↓            | ↓            |                 | J03    | X  | 7                | TB03        | 26 | 9-26             |         |
| 189              | ↓        | ↓            | ↓            |                 | TB02   | 13 | 3                | TB03        | 28 | 9-26             |         |
| 190              | 16       | 20           | 4            |                 | K03    | 1C | 18 (20)          | FO2         | B  |                  |         |

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| CONTROL DATA           |          | TITLE        |              | DOCUMENT NO.    |        | REV.             |             |                  |         |
|------------------------|----------|--------------|--------------|-----------------|--------|------------------|-------------|------------------|---------|
| MINNEAPOLIS, MINNESOTA |          | WIRE LISTING |              | WL 70539600     |        | J                |             |                  |         |
|                        |          |              |              | SHEET 12 OF 12  |        |                  |             |                  |         |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN | ACCESS. FIND NO. | DESTINATION | ACCESS. FIND NO. | REMARKS |
| 191                    | 16       | 20           | 4            |                 | JO3 MM | 7                | K04 6       | 12-19            |         |
| 192                    |          |              |              |                 |        |                  |             |                  |         |
| 193                    | 16       | 20           | 4            |                 | CB05   | T 4              | F06 A       | -                |         |
| 194                    |          |              |              |                 | K05A   | 2 12-19          | K03 1A      | 3                |         |
| 195                    | 16       | 20           | 4            |                 | K03    | 3B 3             | K06 9       | 12-19            |         |
| 196                    | 15       | 16           | 4            |                 | F05    | A -              | T01 8       | 4                |         |
| 197                    | 16       | 20           | 4            |                 | F05    | B -              | JO3 KK      | 7                |         |
| 198                    | 16       | 20           | 4            |                 | K06    | 2 12, 19         | F06 B       | -                |         |
| 199                    | 16       | 20           | 4            |                 | K05B   | 1 12, 19         | TB02 5      | 3                |         |
| 200                    | 16       | 20           | 4            |                 | J06    | 2 25             | TB03 13     | 9-26             |         |
| 201                    | 15       | 16           | 4            |                 | T01    | 5 4              | J35 2       | 8                |         |
| 202                    |          |              |              |                 | T01    | 7 4              | J35 1       | 8                |         |
| 203                    |          |              |              |                 | T01    | 6 4              | TB15 2      | 18               |         |
| 204                    |          |              |              |                 | J35    | 3 8              | TB15 1      | 18               |         |
| 205                    |          |              |              |                 | J35    | 4 8              | TB15 2      | 18               |         |
| 206                    |          |              |              |                 | TB15   | 2 18             | J07 M       | 6                |         |
| 207                    |          |              |              |                 | TB15   | 1 18             | TP06 -      |                  |         |
| 208                    | 15       | 16           | 4            |                 | TB15   | 1 18             | J07 N       | 6                |         |

| CONTROL DATA              |   | TITLE               |   | DOCUMENT NO. |   | REV. |           |         |                            |       |          |       |          |
|---------------------------|---|---------------------|---|--------------|---|------|-----------|---------|----------------------------|-------|----------|-------|----------|
| MINNEAPOLIS, MINNESOTA    |   | CABLE ASSEMBLY (W3) |   | WL 45449700  |   | K    |           |         |                            |       |          |       |          |
|                           |   | PRODUCT             |   | SHEET 1 OF 7 |   |      |           |         |                            |       |          |       |          |
|                           |   | DISK STORAGE DRIVE  |   |              |   |      |           |         |                            |       |          |       |          |
| REVISION STATUS OF SHEETS |   |                     |   |              |   |      | REVISIONS |         |                            |       |          |       |          |
| 1                         | 2 | 3                   | 4 | 5            | 6 | 7    | REV.      | ECO     | DESCRIPTION                | DRFT. | DATE     | CHKD. | APPD.    |
| A                         | A | A                   | A | A            | A | -    | A         |         | RELEASED                   |       |          |       |          |
| B                         | A | A                   | A | A            | B | -    | B         | PM1257  | SEE CO DWG NO WAS 46810300 | S.C.  | 10-21-67 | MM    | 2-22     |
| C                         | C | C                   | C | C            | C | -    | C         | PM1257  | SEE CO DWG WAS 40776300    | JF    | 10-27-67 | MM    | 2-22     |
| D                         | D | D                   | D | D            | D | -    | D         | PM2242  | DWG NO WAS 40175700        | JPM   | 2-2-68   | MM    | 2-22     |
| E                         | E | E                   | E | E            | E | -    | E         | PM3645  | DWG. NO. WAS 45464200      | CC    | 10-2-68  | MM    | 10-22-68 |
|                           |   |                     |   |              |   |      | F         | PM4309  | SEE CO                     | EW    | 12-17-68 | MM    | 12-18-68 |
|                           |   |                     |   |              |   |      | G         | PM4772  | SEE CO                     | GV    | 2-27-69  | MM    | 3-3-69   |
|                           |   |                     |   |              |   |      | H         | PM4823  | SEE CO                     | GV    | 4-15-69  | MM    | 5-6      |
|                           |   |                     |   |              |   |      | J         | PM5207  | SEE CO                     | DS    | 6-30-69  | MM    | 7-17-69  |
|                           |   |                     |   |              |   |      | K         | PEI2054 | SEE CO                     | GV    | 7-24-69  | MM    | 7-27-69  |

NOTES:



A HEXAGON IN THE ACCESS FIND NO. COLUMN, INDICATES THAT THE CONDUCTOR IS ONE OF SEVERAL (ALL WITH THE SAME NUMBER IN THE HEXAGON) GOING INTO THE SAME TERMINAL. A NUMBER IN FRONT OF A HEXAGON IS THE TERMINAL FIND NO.

- DETACHED LISTS:  
A. PL 40849500.
- FOR MLCB ASSEMBLY SEE 40849500.
- INDICATES END OF SHIELD IS FLOATING.

COPIES TO

BY C.M. DATE 2/24/67 CHKD. B.M. DATE 3/4/67 ENGR J.W.L. DATE 3-7-67

FORM AA 1672

| CONTROL DATA           |          | TITLE        |              |                 |        |    |                 |             | DOCUMENT NO. |                  | REV.    |
|------------------------|----------|--------------|--------------|-----------------|--------|----|-----------------|-------------|--------------|------------------|---------|
| CORPORATION            |          | WIRE LISTING |              |                 |        |    |                 |             | WL 45449700  |                  | K       |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                 |             | SHEET 2 OF   |                  |         |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO. | DESTINATION |              | ACCESS. FIND NO. | REMARKS |
| 1                      | 33       | 24           | 4            |                 | P104   | 15 | 14              | X14         | 1            | 16,45            |         |
| 2                      |          |              |              |                 | P104   | 2  | 14              | X18         | 1            | 16,45            |         |
| 3                      |          |              |              |                 | X18    | 7  | 16,45           | P104        | 3            | 14               |         |
| 4                      |          |              |              |                 | P104   | 4  | 14              | X19         | 1            | 16,45            |         |
| 5                      |          |              |              |                 | X19    | 7  | 16,45           | P104        | 5            | 14               |         |
| 6                      |          |              |              |                 | P104   | 7  | 14              | X20         | 1            | 16,45            |         |
| 7                      |          |              |              |                 | X20    | 7  | 16,45           | P104        | 8            | 14               |         |
| 8                      |          |              |              |                 | P104   | 10 | 14              | X21         | 1            | 16,45            |         |
| 9                      |          |              |              |                 | X21    | 7  | 16,45           | P104        | 12           | 14               |         |
| 10                     |          |              |              |                 | P104   | 13 | 14              | X22         | 1            | 16,45            |         |
| 11                     |          |              |              |                 | X22    | 7  | 16,45           | P104        | 14           | 14               |         |
| 12                     | 33       | 24           |              |                 | P104   | 59 | 14              | X07         | 12           | 16,45            |         |
| 13                     | 34       | 20           |              |                 | P104   | 57 | 15              | P03         | Y            | 12               |         |
| 14                     | 34       | 20           |              |                 | P03    | Z  | 12              | P104        | 58           | 15               |         |
| 15                     | 33       | 24           |              |                 | P104   | 45 | 14              | P03         | AA           | 11               |         |
| 16                     | 34       | 20           |              |                 | P03    | BB | 12              | P104        | 46           | 15               |         |
| 17                     | 33       | 24           |              |                 | P104   | 47 | 14              | P03         | CC           | 11               |         |
| 18                     | 33       | 24           |              |                 | P03    | W  | 11              | P104        | 44           | 14               |         |
| 19                     | 33       | 24           | 4            |                 | P104   | 43 | 14              | P03         | J            | 11               |         |

| CONTROL DATA           |          | TITLE        |              |                 |        |    |                 |             | DOCUMENT NO. |                  | REV.    |
|------------------------|----------|--------------|--------------|-----------------|--------|----|-----------------|-------------|--------------|------------------|---------|
| CORPORATION            |          | WIRE LISTING |              |                 |        |    |                 |             | WL 45449700  |                  | K       |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                 |             | SHEET 3 OF   |                  |         |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO. | DESTINATION |              | ACCESS. FIND NO. | REMARKS |
| 20                     | 34       | 20           | 4            |                 | P07    | K  | 12              | S306        | NO.          | 23               |         |
| 21                     |          |              |              |                 | S304   | C  | 23              | S302        | NC.          | 23               |         |
| 22                     |          |              |              |                 | S302   | C  | 23              | J310        | 9            | 21               |         |
| 23                     |          |              |              |                 | J310   | 10 | 21              | P07         | C            | 12               |         |
| 24                     |          |              |              |                 | P07    | D  | 12              | J310        | 11           | 21               |         |
| 25                     |          |              |              |                 | J310   | 4  | 21              | P104        | 36           | 15               |         |
| 26                     |          |              |              |                 | P104   | 35 | 15              | J310        | 2            | 21               |         |
| 27                     |          |              |              |                 | J310   | B  | 21              | P07         | E            | 12               |         |
| 28                     |          |              |              |                 | P07    | P  | 12              | P230        | X            | 15               |         |
| 29                     |          | 20           |              |                 | P230   | K  | 15              | P07         | R            | 12               |         |
| 30                     |          | 16           |              |                 | P07    | N  | 13              | J36         | I            | 64               |         |
| 31                     |          | 20           |              |                 |        |    |                 |             |              |                  |         |
| 32                     |          |              |              |                 |        |    |                 |             |              |                  |         |
| 33                     |          |              |              |                 |        |    |                 |             |              |                  |         |
| 34                     |          | 20           |              |                 |        |    |                 |             |              | 15               |         |
| 35                     |          | 16           |              |                 | J36    | Z  | 64              | P07         | M            | 13               |         |
| 36                     |          | 20           |              |                 | P07    | H  | 12              | J310        | 1            | 21               |         |
| 37                     |          | 20           |              |                 | J310   | S  | 21              | P07         | J            | 12               |         |
| 38                     | 34       | 20           | 4            |                 | P07    | F  | 12              | J310        | 6            | 21               |         |

| CONTROL DATA           |          | TITLE        |              |                 |        |    |                |             |    |                 |         | DOCUMENT NO. |  | REV. |
|------------------------|----------|--------------|--------------|-----------------|--------|----|----------------|-------------|----|-----------------|---------|--------------|--|------|
| CORPORATION            |          | WIRE LISTING |              |                 |        |    |                |             |    |                 |         | WL 45449700  |  | CK   |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                |             |    |                 |         | SHEET 4 OF   |  |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO | DESTINATION |    | ACCESS FIND NO. | REMARKS |              |  |      |
| 39                     | 34       | 20           | 4            |                 | J310   | 7  | 21             | P07         | L  | 12              |         |              |  |      |
| 40                     | ↑        | ↑            | ↑            |                 | P03    | X  | 12             | P104        | 16 | 15              |         |              |  |      |
| 41                     |          |              |              |                 | P104   | 30 | 15             | P03         | S  | 12              |         |              |  |      |
| 42                     |          |              |              |                 | P03    | R  | 12             | P104        | 31 | 15              |         |              |  |      |
| 43                     |          |              |              |                 | P104   | 34 | 15             | P03         | P  | 12              |         |              |  |      |
| 44                     |          |              |              |                 | P03    | N  | 12             | P104        | 32 | 15              |         |              |  |      |
| 45                     | ↓        | ↓            | ↓            |                 | P104   | 33 | 15             | P03         | M  | 12              |         |              |  |      |
| 46                     | 34       | 20           | 4            |                 | J310   | 3  | 21             | P104        | 1  | 15              |         |              |  |      |
| 47                     | 36       | 16           | 0            |                 | X17    | 14 | 18,47          | P104        | 48 | 29              |         |              |  |      |
| 48                     | 36       | ↑            | 0            |                 | P104   | 49 | 29             | P03         | F  | 13              |         |              |  |      |
| 49                     | 36       |              | 0            |                 | P03    | H  | 13             | P104        | 50 | 29              |         |              |  |      |
| 50                     | 37       |              | 2            |                 | X17    | 15 | 18,47          | P104        | 54 | 29              |         |              |  |      |
| 51                     | 37       |              | 2            |                 | P104   | 55 | 29             | P03         | B  | 13              |         |              |  |      |
| 52                     | 37       |              | 2            |                 | P03    | C  | 13             | P104        | 56 | 29              |         |              |  |      |
| 53                     | 38       |              | 6            |                 | X17    | 13 | 18,47          | P104        | 51 | 29              |         |              |  |      |
| 54                     | 38       |              | 6            |                 | P104   | 52 | 29             | P03         | D  | 13              |         |              |  |      |
| 55                     | 38       |              | 6            |                 | P03    | E  | 13             | P104        | 53 | 29              |         |              |  |      |
| 56                     | 35       | 16           | 4            |                 | P03    | K  | 13             | X08         | 15 | 18,47           |         |              |  |      |

| CONTROL DATA           |          | TITLE        |              |                 |        |    |                |             |    |                 |         | DOCUMENT NO. |  | REV. |
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| CORPORATION            |          | WIRE LISTING |              |                 |        |    |                |             |    |                 |         | WL 45449700  |  | CK   |
| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                |             |    |                 |         | SHEET 5 OF   |  |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO | DESTINATION |    | ACCESS FIND NO. | REMARKS |              |  |      |
| 57                     | 27       | 24           |              |                 |        |    |                |             |    |                 |         |              |  |      |
| 57A                    |          |              | 0            |                 | P230   | N  | 14             | P104        | 27 | 14              |         |              |  |      |
| 57B                    |          |              | 4            |                 | P230   | P  | 14             | P104        | 28 | 14              |         |              |  |      |
| 58                     | 26       | 24           |              |                 |        |    |                |             |    |                 |         |              |  |      |
| 58A                    |          |              | 0            |                 | P104   | 24 | 14             | TB302       | C  | 24              |         |              |  |      |
| 58B                    |          |              | 4            |                 | P104   | 23 | 14             | TB302       | L  | 24              |         |              |  |      |
| 58C                    |          |              | 9            |                 | P104   | 22 | 14             | TB302       | R  | 24              |         |              |  |      |
| 59                     | 27       | 24           |              |                 |        |    |                |             |    |                 |         |              |  |      |
| 59A                    |          |              | 0            |                 | P230   | T  | 14             | P104        | 25 | 14              |         |              |  |      |
| 59B                    |          |              | 4            |                 | P230   | U  | 14             | P104        | 26 | 14              |         |              |  |      |
| 60                     | 27       | 24           |              |                 |        |    |                |             |    |                 |         |              |  |      |
| 60A                    |          |              | 4            |                 | P104   | 20 | 14             | P230        | V  | 14              |         |              |  |      |
| 60B                    |          |              | 0            |                 | P104   | 21 | 14             | P230        | W  | 14              |         |              |  |      |
| 61                     | 32       | 20           |              |                 |        |    |                |             |    |                 |         |              |  |      |
| 61A                    |          |              | SHIELD       |                 | △      |    | —              | P07         | U  | 13(1)           |         |              |  |      |
| 61B                    |          |              | 0            |                 | P230   | L  | 15             | P07         | B  | 12              |         |              |  |      |
| 61C                    |          |              | 2            |                 | P230   | M  | 15             | P07         | A  | 12              |         |              |  |      |

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| CONTROL DATA           |          | TITLE        |              |                 |        |    |                 |             |    |                 |         | DOCUMENT NO. | REV. |
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| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                 |             |    |                 |         | WL 45449700  | K    |
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| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO. | DESTINATION |    | ACCESS FIND NO. | REMARKS |              |      |
| 62                     | 32       | 20           |              |                 |        |    |                 |             |    |                 |         |              |      |
| 62A                    |          |              | SHIELD       |                 | P07    | U  | ①               | △4          |    | -               |         |              |      |
| 62B                    |          |              | 0            |                 | P07    | T  | 12              | P230        | H  | 15              |         |              |      |
| 62C                    |          |              | 2            |                 | P07    | S  | 12              | P230        | J  | 15              |         |              |      |
| 63                     | 34       | 20           | 4            |                 | S306   | C  | 23              | S304        | NO | 23              |         |              |      |
| 64                     | ↑        | ↑            | ↑            |                 | P104   | 62 | 15              | P03         | T  | 12              |         |              |      |
| 65                     |          |              |              |                 | P03    | U  | 12              | P104        | 63 | 15              |         |              |      |
| 66                     |          |              |              |                 | P104   | 64 | 15              | P03         | V  | 12              |         |              |      |
| 67                     |          |              |              |                 | P03    | DD | 12              | P104        | 65 | 15              |         |              |      |
| 68                     | ↓        | ↓            | ↓            |                 | P104   | 66 | 15              | P03         | EE | 12              |         |              |      |
| 69                     | 34       | 20           | 4            |                 | P07    | V  | 12              | J310        | 12 | 21              |         |              |      |
| 70                     | 27       | 24           |              |                 |        |    |                 |             |    |                 |         |              |      |
| 70A                    |          |              | 4            |                 | P230   | R  | 14              | P104        | 70 | 14              |         |              |      |
| 70B                    |          |              | 0            |                 | P230   | Z  | 14              | P104        | 73 | 14              |         |              |      |
| 71                     | 34       | 20           | 4            |                 | P07    | Y  | 12              | P230        | Y  | 15              |         |              |      |
| 72                     | 33       | 24           | 4            |                 | P104   | 79 | 14              | X08         | 12 | 16,45           |         |              |      |
| 73                     | 33       | 24           | 4            |                 | P104   | 80 | 14              | X08         | 01 | 16,45           |         |              |      |
| 74                     | 34       | 20           | 4            |                 | P03    | NN | 12              | P104        | 78 | 15              |         |              |      |
| 75                     | 34       | 20           | 4            |                 | P03    | HH | 12              | S334        | C  | 23,63           |         |              |      |

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| MINNEAPOLIS, MINNESOTA |          |              |              |                 |        |    |                 |             |    |                 |                        | WL 45449700  | K    |
| WIRE LISTING           |          |              |              |                 |        |    |                 |             |    |                 |                        | SHEET 7 OF 7 |      |
| CONDUCTOR IDENT.       | FIND NO. | GAUGE (REF.) | COLOR (REF.) | LENGTH (APPROX) | ORIGIN |    | ACCESS FIND NO. | DESTINATION |    | ACCESS FIND NO. | REMARKS                |              |      |
| 76                     | 34       | 20           | 4            |                 | P03    | FF | 12              | S333        | NO | 23              |                        |              |      |
| 77                     | 34       | 20           | 4            |                 | S333   | C  | 23              | S334        | NO | 23,63           |                        |              |      |
| 84                     | 34       | 20           | 4            |                 | P03    | KK | 12              | P11         | 1  | 21              |                        |              |      |
| 85                     | 34       | 20           | 4            |                 | P03    | LL | 12              | P11         | 2  | 21              |                        |              |      |
| 86                     | 34       | 20           | 4            |                 | P03    | MM | 12              | P11         | 3  | 21              |                        |              |      |
| 87A                    | 50       | 20           | 5            |                 | P06    | 4  | 57              | L300        | 1  | 23              | SPINDLE BRAKE          |              |      |
| 87B                    |          | 20           | 0            |                 | P06    | 3  | 57              | L300        | 2  | 23              | SPINDLE BRAKE          |              |      |
| 88A                    | 51       | 20           | 4            |                 | P06    | 5  | 57              | L301        | 1  | 23              | SECTOR SENSOR SOLENOID |              |      |
| 88B                    |          | 20           | 0            |                 | P06    | 6  | 57              | L301        | 2  | 23              | SECTOR SENSOR SOLENOID |              |      |
| 89A                    | 50       | 20           | 5            |                 | P06    | 1  | 57              | P311        | 1  | 21              | DISABLE SWITCH         |              |      |
| 89B                    |          | 20           | 0            |                 | P06    | 2  | 57              | P311        | 2  | 21              | DISABLE SWITCH         |              |      |

FORM AA1669





# COMMENT SHEET

MANUAL TITLE CONTROL DATA 9465 DISK STORAGE DRIVE

Diagrams and Wire List Manual

PUBLICATION NO. 41248800 REVISION \_\_\_\_\_

FROM: NAME: \_\_\_\_\_  
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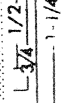
# FIELD CHANGE ORDER LOG

EQUIPMENT IDENTIFICATION NO. 9465 P14 SERIAL NO. 14045 PAGE NO. 1

| FCO NO.   | DATE INSTALLED | INSTALLED BY | FCO NO. | DATE INSTALLED | INSTALLED BY |
|-----------|----------------|--------------|---------|----------------|--------------|
| PE 12310A | 6/10/70        | NRMOPS       |         |                |              |
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TITLE:     9465 Diagrams and Wire List Manual    

REASON FOR CHANGE:

Engineering Change Order PE12527 incorporating the following:

1. Field Change Order PE12234.  
Engineering Change Order PE12234.
2. Field Change Order PE12285.  
Engineering Change Order PE12285A.
3. Field Change Order PE12126.
4. Engineering Change Order PE12054A.
5. Engineering Change Order PE12211.
6. Engineering Change Order PE12225A.
7. Engineering Change Order PE12231.
8. Engineering Change Order PE12298.
9. Engineering Change Order PE12461.
10. Editorial Changes.

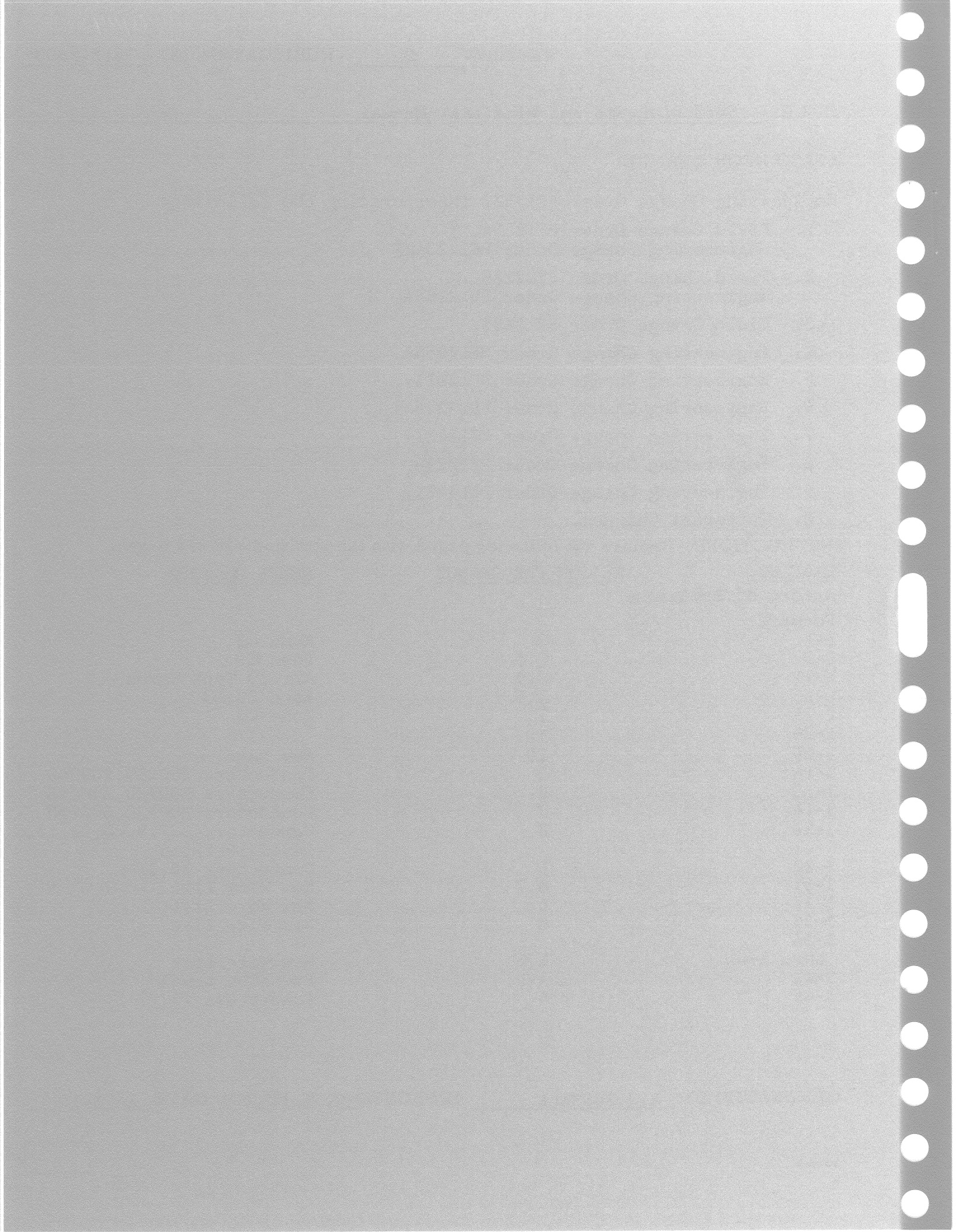
INSTRUCTIONS: Replace the following pages with the attached revised pages:

| <u>PAGE NO.</u>     | <u>REASON FOR CHANGE</u> | <u>WHERE CHANGED</u>                         |
|---------------------|--------------------------|--|
| Record of Revisions |                          |  |
| Forward             |                          |  |
| 1-1                 | 2                        | Zone C3                                      |
| 1-5                 | 1,5                      | Zone C1                                      |
| 1-11                | 3,9                      | All 30 Type Cards                            |
| 1-13                | 1,6                      | Zone C3,A3                                   |
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| 3-42                | 4                        | Revision Level                               |
| 3-45                | 4                        | Conductors 75,77                             |

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4095

REVISION     C     PUBLICATION NO. 41248800

TITLE: 9465 Disk Storage Drive - Diagrams & Wire List Manual

REASON FOR CHANGE:

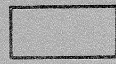
Engineering Change Order PE12158 incorporating the following:

- 1. Engineering Change Order PM4840B.
- 2. Engineering Change Order PM5207.
- 3. Engineering Change Order PM5296A.
- 4. Engineering Change Order PM5334.

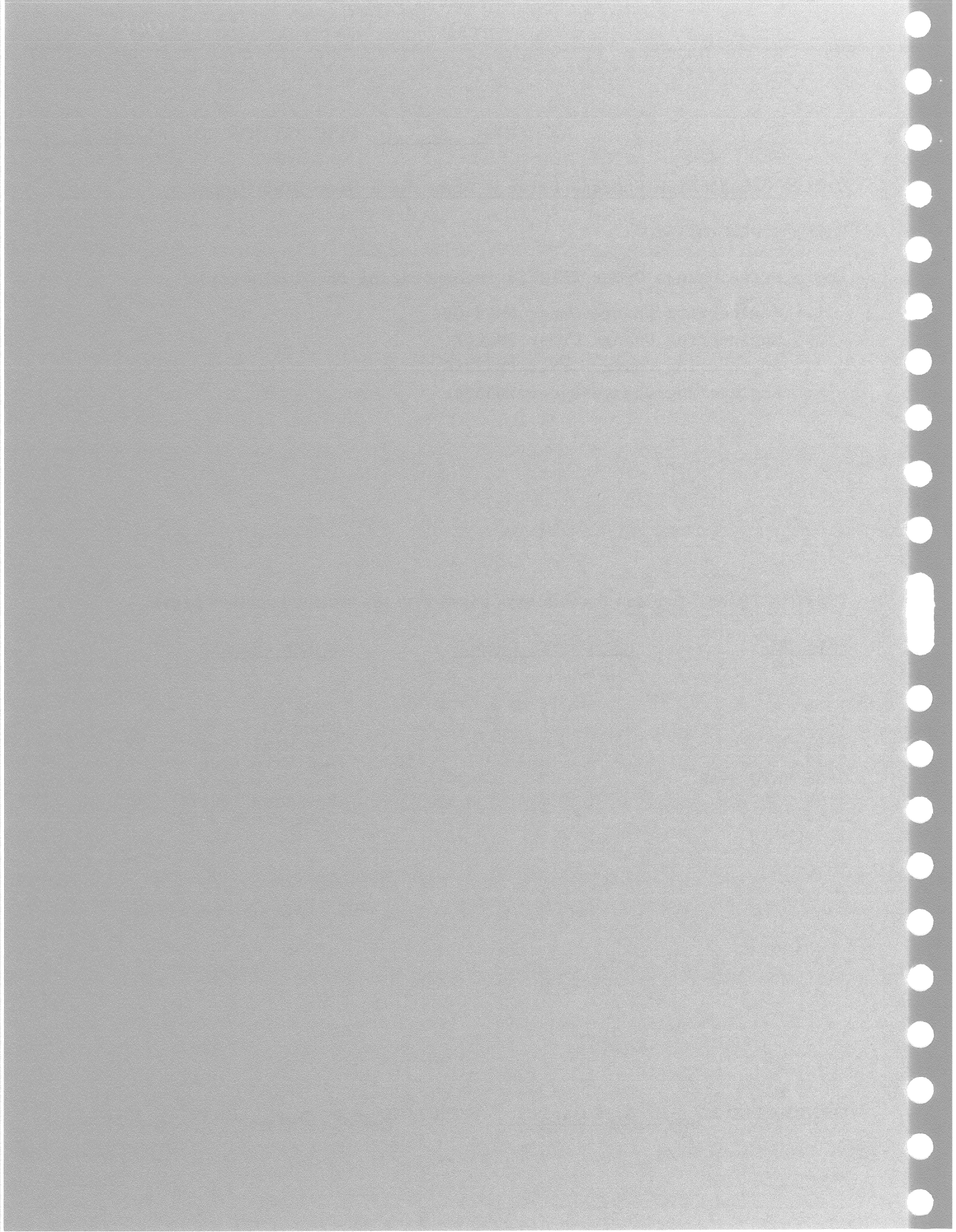
INSTRUCTIONS: Replace the following pages with the attached revised pages:

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| 1-15            | 1                        | Zone C3              |
| 3-31, 32        | 4                        | New Wire List        |
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| 3-36 thru 3-42  | 3                        | New Wire List        |
| 3-42            | 2                        | Revision Level       |
| 3-43            | 2                        | Conductors 30, 35    |

ORIGINATED BY L. J. Russell APPROVED J. K. Cohen DATE 7-30-69









TITLE:     9465 Diagrams, Card Placement, Wire List Manual    

REASON FOR CHANGE:

Engineering Change Order PM5347 incorporating the following:

1. Engineering Change Order PM4638A.
2. Engineering Change Order PM4646.
3. Engineering Change Order PM4677.
4. Engineering Change Order PM4772.
5. Engineering Change Order PM4843.
6. Engineering Change Order PM4914.
7. Engineering Change Order PM4949.
8. Engineering Change Order PM4950.
9. Engineering Change Order PM5038A.
10. Engineering Change Order PM5279.

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| 3-40                | 2             | Conductor 141  |
| 3-42                | 4             | Revision status  |
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