

## 920B COMPUTER

## PART 1: CENTRAL PROCESSOR

A1	322D8205	Interconnection Diagram for MCS 920B System
A2	322B7007	Typical Board Layout 920B Computer A-FA
A3	322C7432	MCS 920B Computer Connector and Unit Layout
A4	MSB 2024	920B Register Structure Block Diagram
A5	322C3986	MCS 920B Computer Block Diagram
A6	322A7191	920B L. S. A. Element Logic Symbols and Circuit Diagrams
A7	322D8267	920B Register Bits 1-18
A8	322C8607	920B Computer Overflow Unit Logic
A9	322D8268	Logic of Registers Adding and Overflow Units
A10	322D7973	920B Computer Multiply/Divide Shift and Overflow Logic
A11	322D7880	920B Control Sequence Functions 0-9
A12	322D7881	920B Control Sequence Functions 10-15
A13	322D7952	920B Computer Input/Output Overall Logic
A14	322D7972	920B Computer Store Logic and General Flow Diagram
A15	322D8069	920B Computer Manual Controls and Store Heater Logic
A16	322D7907	920B Matrix Address Function Decode and Conditionals
A17	322D7948	920B Computer Initial Instructions
A18	322D8070	920B Computer Control and Interrupt Overall Logic
A19	322D7959	920B Computer Register Module and Control Waveforms
A20	322D7953	920B Computer Matrices for Functions 0, 1, 2, 3, 6, 7, 8, 9, 10 and 11
A21	322D8606	Main Timing Loop

A22	322D4941	920B Control Unit Circuit Diagram
A23	322D4197	920B Store Control Chain (A-EB3 Unit)
A24	322D4195	920B Computer A-EA3 Unit
A25	MSB 2038	Sequence of Accumulator and G-Register when reading in Tape Function 15
A26	322D7936	Y Selection System for 920B Stores
A27	322D7934	X1-64 Selection System for 920B Stores
A28	322D7938	X65-128 Selection System for 920B Stores
A29	322C4201	920B Store Circuit Diagram A-ED <sub>3</sub>
A30	322D8266	Basic Circuit of Matrix Drive System
A31	322D7931	920B Computer Process Counter
A32	322C2781	Circuit Diagram for Selection Diodes 920 A-AE Unit
A33	322D4199	Circuit Diagram A-EC3 Unit (920B Master Drivers)
A34	MSB 2023	Block Diagram 920B Computer A-GZ Unit Temperature Sensing and Control
A35	322C4588	Circuit Diagram A-GZ Unit (Temp. Sensing and Control)

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## PART 2: THE ADDITIONAL STORE

B1	(Sht. 1)	322B7452	Extra Store 8192 Word 18 bit without S. A. C. Connector and Unit Layout
B1	(Sht. 2)	322B8231	920B Computer Additional Store 16, 384 Word. Connector and Unit Layout
B2	(Sht. 1)	322C7393	920B Additional Store (without Access Control) Block Diagram
B2	(Sht. 2)	MSD 2310	920B 16384 Words Additional Store System Block Diagram
B3		322A5997	Circuit Diagram for B-S1 Unit
B4		322B8087	920B Computer Interconnection Diagram for Additional 8192 Words Store
B5		322D5416	920B Additional Store (without Access Control) System Logic
B6		322D5483	Board A-JC Diplexing and Inverting 920B Additional Store
B7		322C5470	Board A-JJ Link Board Position 50
B8		322C5469	Board A-HX Link Board Position 51
B9		322D5471	Board A-HT Diplexing and Inverting 920B Additional Store
B10		322D5468	Board A-HY Receivers, Transmitters and Inverters 920B Additional Store
B11		322D5467	Board A-HS Output Data Transmitter. 920B Additional Store
B12		322D5466	Board A-HR Input Receiver (DATA) 920B Additional Store
B13		322D5472	Board A-HK Store Select Logic 920B Additional Store
B14		322C5731	Board A-FU Extra Store Transmitters. Board Position 27

B15	322C5732	Board A-FV Extra Store Receiver's Board Position 26
B16	322B7433	Extra Store 8192 Word 18 bit with S. A. C. Connector and Unit Layout
B17	322D7394	920B Additional Store (with Access Control) Block Diagram
B18	322D5417	920B Additional Store (with Access Control) System Logic
B19	322C5489	Board A-HO Priority Select Logic Board Position 40
B20	322C5488	A-HN Channel Select Logic Board Position 41
B21	322C5487	Board A-HQ Select Channel Drivers Board Function 42
B22	322C5486	Board A-HP TR Regenerator Board Position 43
B23	322C5481	Board A-JF Position 45 Output Transmitters Further Store
B24	322C5480	Board A-JD Output Data Transmitters to peripheral Position 46
B25	322C5473	Board A-HU Input Receivers Board Position 56
B26	322C5485	Board A-JH SSI Inputs and J14-16 Inverters Position 50
B27	322C5484	Board A-JG Position 53 Diplexing, Inverters and Transmitters
B28	322C5482	Board A-JB Position 54 Output Data Diplexing Computer Transmitter
B29	322C5490	Board A-JK Store Select Logic Board Position 57

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## PART 3: PAPER TAPE SYSTEM

C1	MSB 2044	920B Computer Paper Tape Controller Connector and Unit Layout
C2	322D4917	Logic Diagram Paper Tape Control Mk. 1
C3	322C3549	Logic Diagram (A-AR <sub>3</sub> ) Reader Control 2
C4	322C5121	Logic Diagram A-AQ3 Unit
C5	322C2481	Logic Diagram A-AP3 Unit Reader Register
C6	322C4611	Paper Tape Controller Board AFX Position 5
C7	322C2482	Logic Diagram A-AO3 Punch Control 2
C8	322C2650	Logic Diagram A-AN3 Punch Control 1
C9	322C2611	Circuit - Logic Diagram A-AM3 Unit Punch Register
C10	322C2805	920B Computer Logic Diagram A-AK Punch Drivers
C11	322D8067	920B Computer Logic Diagram Program Loading Unit
C12	322D5942	Program Loading Unit Chassis and Panel Assembly
C13	MSC 2269	Automode Connections with Program Loading Unit Fitted
C14	MSB 2263	Automode Connections at Computer SKT11 when Start Address Plug or Program Loading Unit is connected
C15		Paper Tape Station MCB 66 Typical Paper Tape Station Layout (Rack)
C16	322TD004	Paper Tape Station MCB 66 Interconnections (Rack)
C17	322TD005	Paper Tape Station MCB 66 A, C. Distribution
C18	322TD006	Paper Tape Station MCB 66 D, C. Distribution
C19	322C7968	Paper Tape Station MCB 66 Teleprinter and Paper Tape Control Unit
C20	322TD007	Paper Tape Station MCB 66 Selection and Timing
C21	322TD008	Paper Tape Station MCB 66 Reader Control Logic
C22	322T 009	Paper Tape Station MCB 66 Data Output Transfer

C23	322TD010	Paper Tape Station MCB 66	Punch Control Logic
C24	322TD011	Paper Tape Station MCB 66	Logic Board Components
C25	322TD012	Paper Tape Station MCB 66	Reader/Punch Driver
C26	322T 013	Paper Tape Station MCB 66	Teleprinter A, C, Distribution
C27	322T 014	Paper Tape Station MCB 66	Teleprinter D, C, Distribution
C28	322T 015	Paper Tape Station MCB 66	Teleprinter Selection and Timing
C29	322T 016	Paper Tape Station MCB 66	Teleprinter Control Logic
C30	322T 017	Paper Tape Station MCB 66	Teleprinter Clock Logic
C31	322T 018	Paper Tape Station MCB 66	Teleprinter Logic Board Components
C32	322T 019	Paper Tape Station MCB 66	Teleprinter Clock DPS 14
C33	322T 020	Paper Tape Station MCB 66	On Line Adaptor DP4

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## PART 4: POWER SUPPLIES

D1	322D5400	920B General Schematic 24V Power Supplies
D2	322D4954	920B Computer Power Supply (Military Pack) CCT Diagram C-H Board
D3	322D4983	920B Computer Power Supply (Military Pack) CCT Diagram A-HG Board
D4	322D4953	Logic Diagram A-HHI Unit
D5	322D4972	920B Computer Power Supply (Military Pack) CCT Diagram A-HJ Board
D6	322D7819	920B Computer Power Supply Mains Input MCB 24
D7	322D8083	920B Computer Power Supply MCB 23
D8	322D8064	920B Computer Power Supply MCB 29
D9	322D8038	920B Computer P. T. Station Power Unit MCB 30
D10	322D7738	Paper Tape Power Supply MCB 32

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## PART 5: OPERATIONAL/TEST EQUIPMENT

E1	322D4973	Circuit Diagram Display Unit
E2	322C4903	Circuit Diagram Margin Test Unit
E3	MSB 2264	Start Address Plug Connections