

HIGH SPEED TAPE READER

(DX TYPE)

SCHEMATIC WIRING DIAGRAMS

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Marginal arrows in the wiring diagram index indicate the changes. ←

1. GENERAL

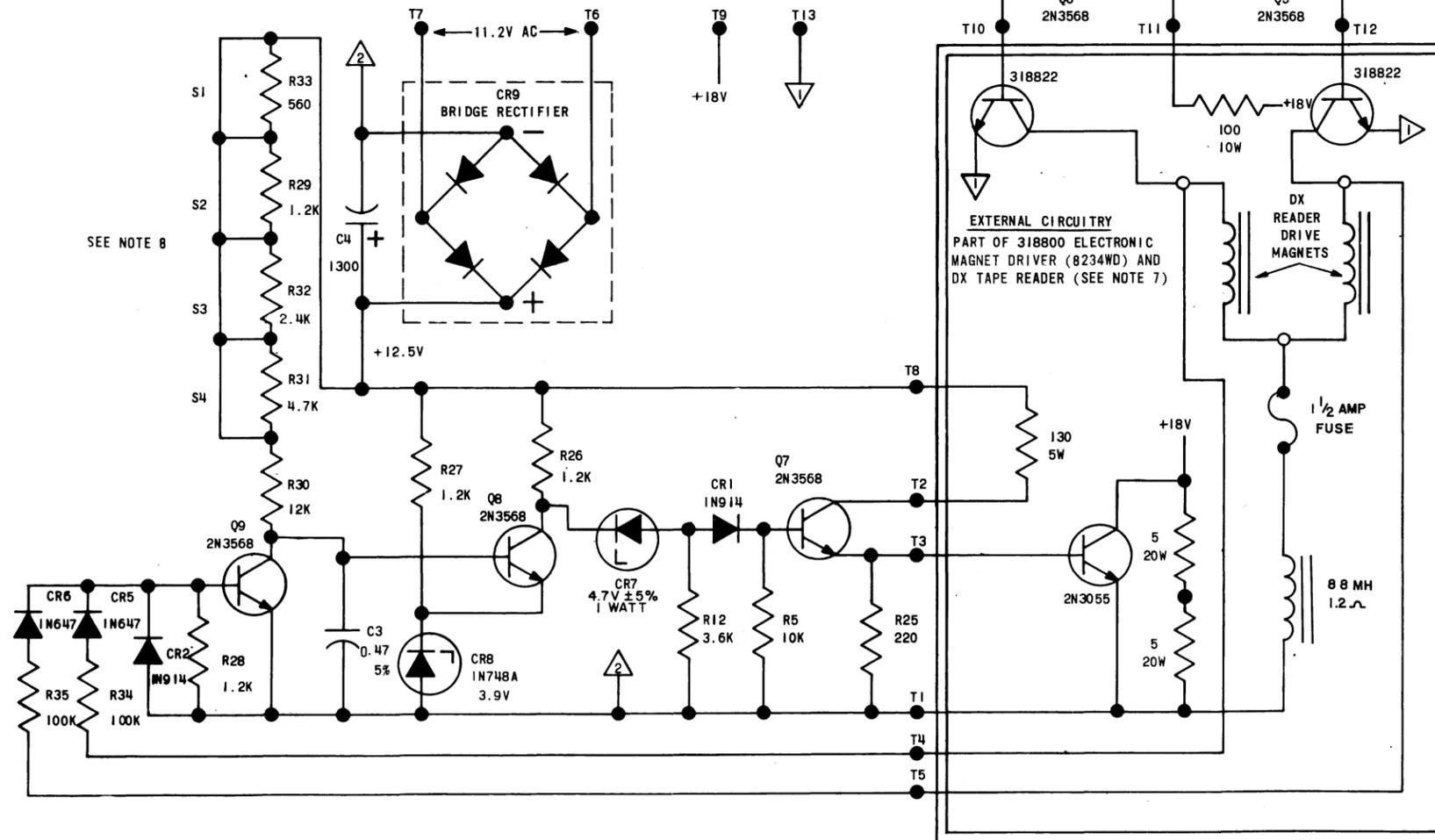
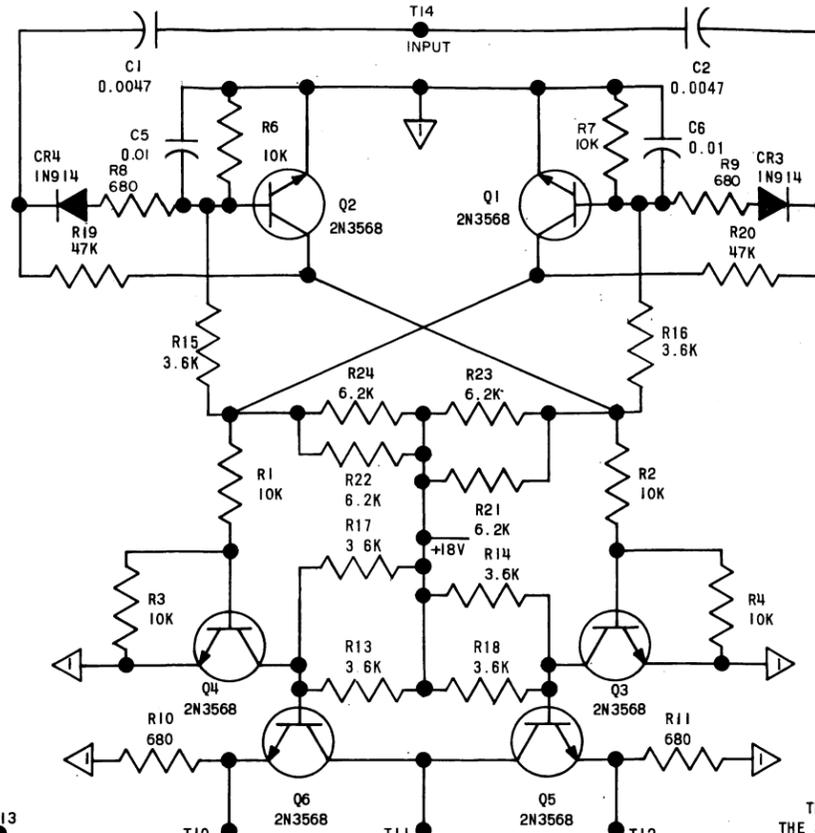
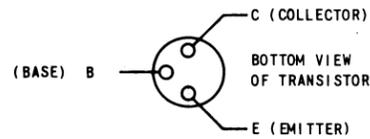
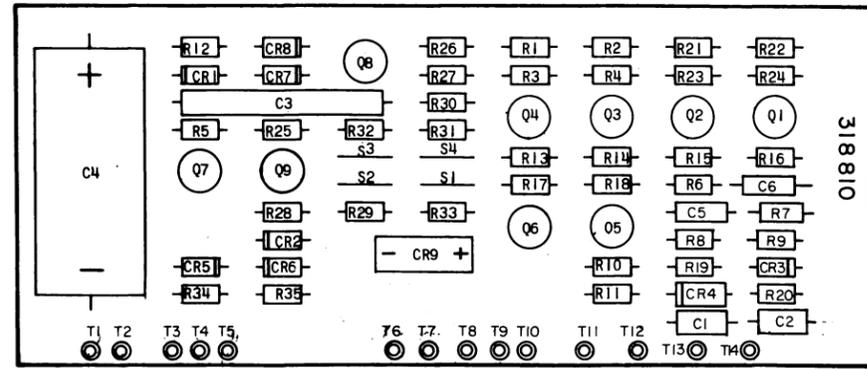
1.01 This section is reissued to provide the latest schematic wiring diagrams for the High Speed Tape Reader (DX Type). Actual wiring diagrams can be found in Section 592-804-401.

1.02 Electrical components installed on the high speed tape reader are illustrated in the attached schematic wiring diagrams.

1.03 The schematic wiring diagrams show the circuitry wiring and interconnections from component to component. Notes included on the diagrams explain the symbols used or point out special conditions used in the diagrams, and should be observed closely.

2. WIRING DIAGRAM INDEX

TITLE	TOTAL CONTROL AND DIAGRAM SHEET	DIAGRAM NUMBER	CONTROL SHEET OR DIAGRAM ISSUE
DX4 Tape Reader	1	8070WD	1
318800 Electronic Magnet Driver	1	8234WD	1
Magnet Driver Control Card	1	318810	4



CIRCUIT BOARD

REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1-7	320275	7	RESISTOR 10K OHMS	
R8-11	315971	4	RESISTOR 680 OHMS	
R12-18	315958	7	RESISTOR 3.6K OHMS	
R19-20	318801	2	RESISTOR 47K OHMS	
R21-24	315986	4	RESISTOR 6.2K OHMS	
R25	318802	1	RESISTOR 220 OHMS	
R26-29	315953	4	RESISTOR 1.2K OHMS	
R30	321545	1	RESISTOR 12K OHMS	
R31	315959	1	RESISTOR 4.7K OHMS	
R32	318803	1	RESISTOR 2.4K OHMS	
R33	315951	1	RESISTOR 560 OHMS	
R34-35	321508	2	RESISTOR 100K OHMS	
C1-2	300384	2	CAPACITOR 0.0047 MFD	
C3	171579	1	CAPACITOR 0.47 MFD	
C4	318806	1	CAPACITOR 1300 MFD	
C5-6	181618	2	CAPACITOR 0.01 MFD	
CR1-4	197464	4	DIODE 1N914	
CR5-6	181654	2	DIODE 1N647	
CR7	182774	1	ZENER 4.7V +5%, 1WATT	
CR8	321161	1	ZENER 1N748A	
CR9	181886	1	BRIDGE RECTIFIER	
Q1-9	315930	9	TRANSISTOR 2N3568	
S1-4		4	24 AWG BARE WIRE STRAP	
T1-14	137471	14	TERMINAL LUGS	
EC	318809	1	CIRCUIT CARD	

MAGNET DRIVER

THIS IS A MAGNET DRIVER CONTROL CARD DESIGNED TO WORK IN CONJUNCTION WITH THE 318800 ELECTRONIC MAGNET DRIVER FOR DX TAPE READERS. Q1 AND Q2 AND ASSOCIATED COMPONENTS FORM AN AC TRIGGERED (NEGATIVE GOING TRANSITION) BINARY. THE NORMAL AND INVERTED OUTPUTS DRIVE TRANSISTORS Q4, Q6 AND Q3, Q5, RESPECTIVELY, WHICH IN TURN ALTERNATELY DRIVE TWO EXTERNAL POWER TRANSISTORS.

IN ADDITION, AN AUXILIARY CONTROL CIRCUIT WITH POWER SUPPLY IS PROVIDED TO MAINTAIN A CONSTANT CURRENT TO THE READER DRIVE MAGNETS REGARDLESS OF THE INPUT REPETITION RATE. THIS CONTROL CIRCUIT CONSISTS OF Q7, Q8, AND Q9 AND ASSOCIATED COMPONENTS AND IS TRIGGERED BY EACH OPERATION OF THE READER MAGNETS.

FOR THE DETAILED DESCRIPTION AND THEORY OF OPERATION: REFERENCE SPECIFICATION FOR TELETYPE CORP. EMPLOYEES ONLY 61,243S.

NOTES:

- ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.
- ALL RESISTORS 1/4 WATT, ± 5%, AND RESISTANCE VALUES IN .OHMS UNLESS OTHERWISE SPECIFIED.
- ALL CAPACITANCE VALUES IN MICROFARADS, ± 10% UNLESS OTHERWISE SPECIFIED.
- ALL INDUCTANCE VALUES IN MILLIHENRIES, ± 15%.
- THERE ARE TWO DIFFERENT COMMON RETURNS:
THE SYMBOL ∇ REFERS TO THE 18V DC SUPPLY.
THE SYMBOL ∇ REFERS TO THE 12.5V DC SUPPLY.
- REFER TO 318809 FOR BASIC MARKING INFORMATION.
- REFERENCE WIRING DIAGRAMS FOR DX TAPE READERS:
DX1 - 8068WD
DX3 - 8051WD
DX4 - 8070WD
- STRAPS S1 TO S4 ARE TO BE CUT PER MANUFACTURING ADJUSTMENT ROUTINE.

318810

REVISIONS

ISSUE	DATE	AUTH. NO.
1	7-13-67	18412-R
2	9-21-67	93901C
3	7-5-68	95948
4	10-30-68	96207

MAGNET DRIVER CONTROL CARD

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 318810

DATE 10-28-66

P.D. FILE NO. 6-47/58, 138AA

DRAWN K.J.R.

CHKD.

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APPD.

TELETYPE CORPORATION

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